



KEAN UNIVERSITY

Undergraduate Catalog 2016-2017

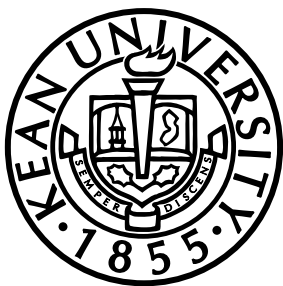
Table of Contents

Degree Programs Table of Contents	3
Mission Statement	5
Catalog Revisions	5
General Information	6
Office of the Registrar	12
Office of Admissions	13
Alternative Freshman Admissions Programs	14
Office of Student Accounting	15
Office of Financial Aid	17
Office of Scholarship Services	20
Student Life and Services	20
Academic Standards and Procedures	23
Center for Academic Success (CAS)	37
College of Business and Public Management	40
College of Education	61
College of Humanities and Social Sciences	99
College of Natural, Applied and Health Sciences	158
College of Visual and Performing Arts	213
Michael Graves College	240
Nathan Weiss Graduate College	250
New Jersey Center for Science, Technology and Mathematics	253
Minor/Collateral Programs	263
Interdisciplinary Courses	266
Faculty and Administrative Personnel	269
Professors Emeriti	288
Adjunct Faculty	290
Advisory Boards	304
Academic Calendar	306
Directions to Campus	306

Degree Programs Table of Contents

Accounting, B.S.	41
Architectural Studies, B.A.	247
Art History, B.A.	214
Asian Studies, B.A.	126
Athletic Training, B.S.	72
Biology, B.A.	159
General Option	159
Teacher Certification Option	159
Teacher of Students with Disabilities Option	160
Biology, B.S.	161
Cell and Molecular Biology Option	161
Environmental Biology Option	178
Health Professions Option	162
Chemistry, B.A.	166
General Option	166
Pre-professional Option	166
Teacher Certification Option	167
Chemistry, B.S.	168
ACS Certified Chemical Instrumentation Option	168
ACS Certified Expanded Option	168
Clinical Laboratory Science, B.S. (Joint w/Rutgers)	208
Medical Laboratory Science Option	208
Cytotechnology Option	208
Communication, B.A.	100
Communication Studies Option	100
Journalism Option	100
Media/Film Option	101
Public Relations Option	101
Computer Science, B.S.	189
Information Systems Option	190
Criminal Justice, B.A.	46
Early Childhood Education, B.A.	63
Earth Science, B.A.	173
General Option	173
Teacher Certification Option	174
Teacher of Students with Disabilities Option	174
Earth Science, B.S.	183
Environmental Science Option	183
Geo-Science Option	183
Economics, B.A.	141
Teacher Certification Option	142
Elementary Education, B.A.	65
K-6 Options	66
K-6 & K-8 Option	68
Bilingual Education - K-6 Options	66
Bilingual Education - K-6 & K-8 Options	67
English, B.A.	106
Standard Option	106
Teacher Certification Option	108
Teacher of Students with Disabilities Option	109
English in Global Settings Option	107
Writing Option	106
Finance, B.S.	44
Fine Arts, B.A.	216
Teacher Certification Option	217
Global Business, B.S.	59
Graphic Design, B.F.A.	240
Interactive, Print, Screen Option	240
Interactive Advertising Option	241
Health Information Management, B.S. (Joint w/Rutgers)	204
History, B.A.	116
Teacher Certification Option	116
Teacher of Students with Disabilities Option	117
Honors Option	118

Industrial Design, B.I.D.	242
Information Technology, B.S.	193
Interior Design, B.F.A.	242
Management, B.S.	52
Entrepreneurship Option	53
General Business Option	53
Management of Organizations Option	52
Supply Chain & Information Management Option	52
Marketing, B.S.	56
Mathematical Sciences, B.A.	196
Data Analytics Option	197
General Option	196
Statistics Option	196
Teacher Certification Option	198
Teacher of Students with Disabilities Option	198
Medical Technology, B.S.	206
General Option	206
Cytotechnology Option	206
Histotechnology Option	207
Music, B.A.	224
Music Education, B.A.	224
Music Performance and Pedagogy, B.M.	226
Nursing, B.S.N.	210
Physician Assistant	212
Physical Education, B.S.	73
Global Fitness and Wellness Option	73
Physical Education and Health, B.S.	73
Teacher Certification Option	73
Political Science, B.A.	145
International/Comparative Politics Option	145
Teacher Certification Option	146
Psychology, B.A.	136
Psychology/Psychiatric Rehabilitation, B.S. (w/Rutgers)	137
Public Administration, B.A.	49
Public Administration, B.A./M.P.A.	49
Recreation Administration, B.A.	81
Therapeutic Recreation Option	81
Commercial Recreation Option	81
Community Recreation Option	82
NJCSTM	
Science and Technology, B.S.	254
Biology Education Option	254
Biomedicine Option	257
Chemistry Education Option	254
Computational Science and Engineering Option	256
Engineering Science Option (Joint with NJIT)	258
Math Education Option	255
Molecular Biology/Biotechnology Option	257
Sociology, B.A.	151
Spanish, B.A. (School of Global Education and Innovation)	90
Teacher Certification Option	90
Speech-Language-Hearing Sciences, B.A.	250
Special Education, B.A. (Teacher of Students with Disabilities) ...	85
P-3 Option	85
K-6 Option	85
K-6/5-8 Option	86
Studio Art, B.F.A.	218
Photography Option	220
Sustainability Science, B.S.	187
Theatre, B.A.	232
Teacher Certification Option	233
Theatre Design and Technology, B.F.A.	235
Theatre Performance, B.F.A.	234



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KEAN UNIVERSITY

Mission Statement

Kean University is a public cosmopolitan university serving undergraduate and graduate students in the liberal arts, the sciences, and the professions. The University dedicates itself to the intellectual, cultural, and personal growth of all its members — students, faculty, and professional staff. In particular, the University prepares students to think critically, creatively and globally; to adapt to changing social, economic, and technological environments; and to serve as active and contributing members of their communities.

Kean offers a wide range of demanding programs dedicated to excellence in instruction and academic support services necessary to assure its socially, linguistically, and culturally diverse students the means to reach their full potential, including students from academically disadvantaged backgrounds, students with special needs, and adults returning or entering higher education.

Kean is steadfast in its dedication to maintaining a student-centered educational environment in which diversity can flourish and an atmosphere in which mutual respect characterizes relations among the members of a pluralistic community. The University seeks to combine excellence with equity in providing opportunities for all students.

Kean is a teaching university, and Kean faculty dedicate themselves to student learning as well as academic rigor. The focus on teaching excellence is supported by a commitment to research, scholarship, creative work, and innovative uses of technology. The focus includes the advancement of knowledge in the traditional disciplines and the enhancement of skills in professional areas. Kean is committed to providing global educational opportunities for students and faculty.

Kean is an interactive university, and the University serves as a major resource for regional advancement. Kean collaborates with business, labor, government and the arts, as well as educational and community organizations and provides the region with cultural events and opportunities for continuous learning. Kean is also committed to providing students and faculty educational opportunities in national and international arenas.

Revised and Adopted March 2007

CATALOG REVISIONS

The policies, procedures, and curricula contained in this catalog are for informational purposes only and are subject to change. Catalog revisions may occur at any time during the academic year. Since the catalog is subject to change, it is the student's responsibility to be knowledgeable regarding revised policies, procedures, and curricula via University e-mail, visiting the respective University Web sites, and obtaining academic advisement. Kean University reserves the right to change any of its policies, regulations or requirements at any time without notice or obligation.

General Information

With a rich history that spans 160 years, Kean University is a vibrant, public university in Union, New Jersey offering a full spectrum of undergraduate, graduate and doctoral programs. The University embraces its mission of accessibility and excellence by keeping the promise of an affordable, world-class education within reach of all students.

Kean distinguishes itself through excellence in academics and a commitment to the success of every student. Dedicated to preparing students for rewarding careers, lifelong learning, and fulfilling lives, Kean offers a broad range of disciplines, the expertise of a diverse and distinguished faculty, and a student-centered learning environment and campus community.

Kean is the third largest public university in New Jersey, and the largest producer of teachers in the state. It is the only public university, and one of only three in the nation, operating a full-scale campus in China. This unique initiative provides Kean USA students with unprecedented access to the international education needed to compete in today's global marketplace.

The University boasts New Jersey's first comprehensive program dedicated to the development of a new generation of mathematics, science and technology teachers and researchers—the New Jersey Center for Science Technology and Mathematics (NJCTM). Other centers of excellence include Global Business, Allied Health, and Education. The Michael Graves College's School of Public Architecture welcomed its first cohort of students in Fall 2015.

The University is home to Liberty Hall Museum, a historic landmark in New Jersey that houses some of the last undiscovered treasures of the American Revolution and the birth of our nation. The University officially acquired Liberty Hall in 2007. The Kean History Department catalogued thousands of previously undiscovered manuscripts from the Revolutionary War period. Other University academic programs, from Design to Biology, use Liberty Hall as a living laboratory for students studying everything from period dress and culture to soil reclamation.

Kean is conveniently located in Union County, New Jersey—just 30 minutes from New York City and an hour from Philadelphia. New Jersey Transit serves the campus with a local train stop at the edge of campus. Newark Liberty International Airport is a ten-minute drive from the main campus. The University also operates an additional location in Ocean County, New Jersey known as Kean Ocean, where students can earn both bachelors and graduate degrees from Kean through this unique partnership with Ocean County College. Kean also holds classes on environmental sustainability on its Highlands Campus in Sussex County.

Kean University was founded in 1855 as a teachers' college based in the city of Newark. In 1958, the University moved to Union Township, occupying nearly 120 acres of the historic Kean family estate. In 1981, the University purchased its 30-acre East Campus property located in Hillside, NJ (the former

Pingry School) and transformed the facility into the Nathan Weiss Graduate College and home of the spectacular Enlow Recital Hall.

The University has an enrollment of approximately 15,000 students. The diversity of Kean's students, faculty and staff is a hallmark of the University, one that has earned Kean national recognition in DiversityInc. Magazine. Kean is accessible for and inclusive to the disabled. The University is committed to affirmative action in admissions and employment practices, promoting equity, fairness and human rights.

Kean University is accredited by the Middle States Commission on Higher Education, and licensed by the New Jersey Commission on Higher Education. All major programs in professional education are accredited by the Council for Accreditation of Educator Preparation (formerly the National Council for Accreditation of Teacher Education).

With so much to offer, students who graduate from Kean University leave well prepared for success in careers and in life. More than 90,000 alumni live in New Jersey and throughout the country.

Administration Building – Offices of Student Accounting, Financial Aid, Financial Services, Registrar and Human Resources.

Bruce Hall – Named for Guy V. Bruce, professor emeritus. These areas contain classrooms, shops and science laboratories.

Campus School – Cluster of five buildings of classrooms and offices.

Carole Hynes Field House – Located at the center of Alumni Stadium, Hynes Field, and Cougar Field, the field house contains restroom and concession facilities as well as a weight room and viewing area on the second floor.

D'Angola Gymnasium – Gymnasiums, swimming pool, and dance studio. Named in memory of Joseph A. D'Angola, head of the Health and Physical Education Department and Dean of Men, 1935-1956, and for Anita B. D'Angola, head of Women's Physical Education, 1916-1956.

Downs Hall – Meeting rooms, Health Services, Counseling Services, Campus Ministry, and Police Headquarters. Named for Martha Downs, chairperson of the Mathematics Department.

East Campus Facility – The East Campus is the home of the Nathan Weiss Graduate College. In addition to meeting rooms and classrooms, the East Campus also houses the departments of Communication Disorders & Deafness, Occupational Therapy, Psychology, Educational Leadership, Graduate Management Studies, and the Alumni House. The facility also houses Enlow Hall, which hosts a variety of recitals and performances.

Gateway Building (Kean Ocean) – Ocean County College and Kean University have formed a strategic partnership to enhance educational offerings. The 72,000-square-foot Gateway Building (whose use is divided equally between Kean and OCC) is located on OCC's main campus in Toms River, New Jersey and opened in September, 2013. It has been designed to achieve LEED Silver Certification. The Kean Ocean facilities in the Gateway

Building include: administrative offices, a laptop classroom/lab, a graphic design computer lab, a multipurpose lecture hall, 14 classrooms, a conference room and board room, a coffee/sandwich shop, lounge areas, and ancillary spaces.

Green Lane Academic Building – This facility includes classrooms, faculty offices, student study spaces, and conferencing and event space. This building houses the Michael Graves College (which includes the Robert Busch School of Design and the School of Public Architecture) and the Global Business School. It is also the home of a full-service Barnes and Noble student bookstore and retail store and café.

Harwood Arena – Connected to D'Angola Gym and named for Lowell Harwood, Trustee Emeritus, this state of the art arena is the gateway to the institution's sports complex. It houses the administrative offices for all of the Cougar teams, and includes a computer lab for student athletes. Highlights of the arena are the three basketball courts with bleacher seating for 2,500 spectators, circled by a 750-foot-long raised track on the second level.

Hennings Hall – Named for Dorothy Hennings, distinguished professor emerita from the Department of Instruction, Curriculum and Administration, and George Hennings, professor emeritus from the Department of Biological Science.

Hutchinson Hall – Instructional Resource Center, lecture hall, television station, Media and Publications, and faculty offices. Named for John C. Hutchinson, former chairperson of the Department of Sociology.

Kean Hall – One of the original Kean estate buildings and a faithful replica of Norman architecture, paneled with oak from Nottinghamshire, the traditional retreat of Robin Hood. Built by Senator Hamilton Fish Kean, it housed the Senator's extensive private library and became a meeting place for politicians and statesmen.

Liberty Hall was the home of New Jersey's first governor, William Livingston. For 200 years, Liberty Hall has remained in the Kean family, from whom the University acquired its land in 1954. James Townley House (c. 1790) is listed in both the New Jersey and National Register of Historic Places. An example of a late-18th/early 19th-century farmhouse, it is particularly significant as one of the few extant period buildings reflective of the area's early rural character in what is now a predominantly urban environment.

Maxine and Jack Lane Center for Academic Success – Named for alumna Maxine Lane and her husband, Jack. The building contains a lecture hall for 125 students, 20 seminar rooms, 13 computer labs and 77 offices. It also houses a radio station and the **Karl and Helen Burger Gallery** – Named after the parents of noted artist and Kean professor emeritus Carl Burger, the gallery is the largest on the university campus.

Miron Student Center – Little Theatre, Cougars Den, Game Room, lounges, Center for Leadership and Service, meeting rooms, Campus Convenience Store, food court and eateries including Jersey Mike's Subs, Smashburger, and Auntie Anne's Pretzels.

Nancy Thompson Library – Individual and group seating and study rooms; Starbucks; extensive print and online collections; houses the Holocaust Resource Center and adjoins the Human Rights Institute. Named for Nancy Thompson, chief librarian from 1914 to 1957.

North Avenue Academic Building – Completed in Summer, 2016, this facility includes classrooms, faculty offices, student study spaces, and conferencing and event space. This building houses the Computer Science, Nursing, Physical Therapy and Physician Assistant programs. It also includes a 500 seat multi-media auditorium and a new Au Bon Pan café.

Ruth Horowitz Alumni House – East Campus-meeting rooms.

Science Building – Classrooms and research laboratories, planetarium, faculty offices.

STEM Building – (New Jersey Center for Science, Technology and Mathematics) The six-story building contains science labs, technology-enhanced classrooms, a 320-seat auditorium and a full-service restaurant.

Technology Building – Classrooms, faculty offices and Office of Computer and Information Services.

Townsend Hall – Administrative, faculty offices, and classrooms. Named for M. Ernest Townsend, president, 1929-1939. The original building is connected to Bruce Hall.

Vaughn-Eames Hall – Workshop and exhibit space for the fine and theatre arts, Murphy Dunn Theater, Zella Fry Theater, studios and classrooms. Named for Lenore Vaughn-Eames, alumna and member of the faculty. Home of the **James Howe Gallery** – original changing exhibitions of two- and three-dimensional works - contemporary and historical - and works by faculty, alumni and art majors.

Wilkins Theatre for the Performing Arts – 956-seat semicircular proscenium theatre, box office, music department, practice studios, classrooms and reception hall. Named for Eugene G. Wilkins, president of the University from 1950 to 1969.

Willis Hall – Classrooms, and faculty offices. Named for William Spader Willis, chief administrator from 1899 to 1928.

Union/Townley Train Station – The station located adjacent to the main campus provides easy access to the campus on the Raritan Valley Line.

Residence Halls

Dougall Hall – Freshman Residence Hall. Named for John B. Dougall, president of the University from 1944-1950.

Freshman Residence Hall – The freshman residence hall houses 420 students. It features Kean University's first live-and-learn community on its eighth floor, which is reserved for students studying sustainability and natural applied sciences.

University Apartments – Four mid-rise buildings with apartment accommodations for 1,000 men and women. Named in honor of Mary B. Burch, member of the Board of Trustees; Mary B. Bartlett, member of the faculty; and Laura E. Rogers, alumna and member of the faculty; and in memory of Ralph P. Sozio, student at the University.

Upperclassman Residence Hall – The upperclassman residence hall houses 408 students. It features a 50-seat screening room, computer lab, game room, and dining hall.

Whiteman Hall – Freshman Residence Hall. Named for Harriet E. Whiteman, dean emerita.

ACCREDITATION

Listed below are the accreditation name(s) of the national specialized accrediting organizations that accredit Kean University and its programs.

Accreditation Commission for Education in Nursing (ACEN)

American Chemical Society (ACS)

American Occupational Therapy Association, Accreditation Council for Occupational Therapy (AOTA)

American Psychology Association (APA)

American Speech-Language-Hearing Association, Council on Academic Accreditation (ASHA)

Association for Childhood Education International (ACEI)

Association of Accredited Schools of Business International (AASBI)

Commission on Accreditation of Health Information and Information Management Education (CAHIIM)

Commission on Accreditation in Physical Therapy Education (CAPTE)

Note: Effective May 2016, Kean University has been granted Candidate for Accreditation status by the Commission on Accreditation in Physical Therapy Education (CAPTE). Candidate for Accreditation is a pre-accreditation status of affiliation with CAPTE that indicates that the program is progressing toward accreditation and may matriculate students in technical/professional courses.

Commission on Accreditation of Athletic Training Education (CAATE)

Note: The B.S. in Athletic Training program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The program has been placed on Probation as of February 19, 2016 by the CAATE, 6850 Austin Center Blvd., Suite 100, Austin, TX 78731-3101

Computing Accreditation Commission (CAC) of ABET (Union campus only)

Council for Accreditation of Counseling and Related Educational Programs (CACREP)

Council for Exceptional Children (CEC)

Council for the Accreditation of Educator Preparation (CAEP)

Council for Interior Design Accreditation (CIDA)

Council on Social Work Education (CSWE) Educational Leadership Constituent Council (ELCC)

International Literacy Association (ILA)

Middle States Commission on Higher Education (MSCHE)

National Association for Sport & Physical Education (NASPE)

National Association for the Education of Young Children (NAEYC)

National Association of School Psychologists (NASP)

National Association of Schools of Art & Design (NASAD)

National Association of Schools of Music (NASM)

National Association of Schools of Theatre (NAST)

National Council for the Social Studies (NCSS)

National Council of Teachers of English (NCTE)

National Council of Teachers of Mathematics (NCTM)

National Science Teachers Association (NSTA)

Network of Schools of Public Policy, Affairs and Administration (NASPAA)

New Jersey Commission on Higher Education (NJCHE)

More information is available on The Office of Accreditation and Assessment home page <http://www.kean.edu/KU/Office-of-Accreditation-and-Assessment>.

EQUAL OPPORTUNITY/ AFFIRMATIVE ACTION

Kean University is committed to establishing and maintaining a diverse campus community. Equal opportunity and diversity represent principles, which are integrally woven into the University's mission. The University is committed to providing equal opportunity in employment and education, as well as equity of conditions for employment and education, to all employees, students and applicants without regard to race, creed, color, national origin, nationality, ancestry, age, sex/gender (including pregnancy), marital status, civil union status, domestic partnership status, familial status, religion, affectional or sexual orientation, gender identity or expression, atypical hereditary cellular or blood trait, genetic information, liability for service in the Armed Forces of the United States, or disability. Sexual harassment is a form of unlawful gender discrimination and likewise, will not be tolerated.

The University follows the *New Jersey State Policy Prohibiting Discrimination in the Workplace (Policy)*.

Any student or employee who believes that he or she has been subjected to prohibited harassment and/or discrimination should contact Dr. Charlie Williams, Director, Office of Affirmative Action Programs and Title IX Coordinator, Townsend Hall, Room 133, (908) 737-3330.

Title IX

Title IX of the Education Amendments of 1972 (Title IX) prohibit discrimination on the basis of sex in education programs or activities.

Sexual harassment in any form will not be tolerated at Kean University.

Sexual harassment by students should be reported to the Office of Affirmative Action Programs, Office of the Vice President for

Student Affairs or the Office of Community Standards and Student Conduct immediately.

Information about the University's Sexual Misconduct Policy may be found at the following: <http://www.kean.edu/policies/sexual-misconduct-policy>.

ANTI-DISCRIMINATION COMPLAINT PROCEDURES FOR STUDENTS

I. Depending on the complaint, violations of the policy prohibiting discrimination and sexual harassment may be adjudicated through the Kean University student conduct process.

II. Internal Complaint Process

A. Reporting

1. All discrimination complaints must be reported to the Affirmative Action Officer. Anyone who believes that he or she has been subjected to discrimination, including sexual harassment, is encouraged to report the matter promptly. Early resolution of complaints can benefit the complainant, the respondent, and the University as a whole. Late reporting may impede a satisfactory resolution or hamper a proper investigation.
2. Any individual (except one who has a legally protected privilege) who has knowledge of conduct involving harassment or who receives a complaint of harassment should immediately inform the Affirmative Action Officer. Such information will commence these procedures.
3. Complaints will be handled with sensitivity throughout the process. Confidentiality will be maintained to the extent possible.
4. Reporting a complaint to the Affirmative Action Officer does not preclude a student from filing a complaint with outside agencies.

B. Resolution Process

1. Intervention

- a) The initial effort in the internal procedure is to informally resolve the matter between the individuals directly involved with the intervention of the Affirmative Action Officer. This requires voluntary agreement of the parties, and focuses on resolution of the complaint rather than assignment of motive or blame. The complainant may, at any time, end the informal process and proceed with a formal written complaint.
- b) All parties have the right to be accompanied by an adviser of their choice at every stage of the internal process. An adviser's role is to support and advise the complainant or respondent. Any further participation in the process is at the discretion of the Affirmative Action Officer.
- c) Actions taken by the Affirmative Action Officer to informally resolve a complaint may include, but are not limited to:
 - listening to the complainant to determine desired action;

- advising the parties about the University's discrimination policy and procedures;
- having the complainant meet with the respondent and the Affirmative Action Officer to discuss the complaint; and
- meeting with administrators or other appropriate individuals to resolve the matter.

2. Investigation

- a) If the complaint cannot be resolved by the intervention of the Affirmative Action Officer or the complainant does not wish to engage in intervention, a formal written complaint must be filed with the Affirmative Action Officer.
- b) A formal written complaint must specify the nature of the charge and should include the complainant's name and address, dates of particular events, names of possible witnesses, the remedy requested, and any other information relevant to the charge. The complaint must be signed and dated.
- c) The Affirmative Action Officer will contact the respondent and the respondent will be given the opportunity to respond to the complaint.
- d) The Affirmative Action Officer will conduct a prompt investigation and submit an investigative report to the President. The President will issue a final determination letter on the complaint to the complainant and respondent.

III. External Agencies

Students can file a complaint directly with external agencies that investigate discrimination/harassment charges in addition to utilizing this internal procedure. The time frames for filing complaints with external agencies indicated below are provided for informational purposes only. An individual should contact the specific agency to obtain exact time frames for filing a complaint.

Federal:

*New York Office
Office for Civil Rights
U.S. Department of Education
32 Old Slip, 26th Floor
New York, NY 10005-2500
Telephone: 646-428-3900
FAX: 646-428-3843; TDD: 877-521-2172
Email: OCR.NewYork@ed.gov*

Violations of the New Jersey Law Against Discrimination (NJLAD):

***New Jersey Department of Law & Public Safety, Division on Civil Rights
(Filing period - 180 days)***

*Newark Office
31 Clinton Street, 3rd Floor
Newark, NJ 07102
Telephone: 973-648-2700
TTY: 973-648-4678
Trenton Regional Office
140 East Front Street, 6th Floor
Trenton, NJ 08625-0090
Telephone: 609-292-4605
TTY: 609-292-1785*

*Camden Office
1 Port Center, 4th Floor
2 Riverside Drive, Suite 402
Camden, NJ 08103
Telephone: 856-614-2550
TTY: 856-614-2574*

*Atlantic City Office
1325 Boardwalk, 1st Floor
Tennessee Ave & Boardwalk
Atlantic City, NJ 08401
Telephone: 609-441-3100
TTY: 609-441-7648*

CHILD CARE AND DEVELOPMENT CENTER

The Kean University Child Care and Development Center (KUCCDC) is accredited by the National Association for the Education of Young Children (NAEYC), having met Early Childhood Program Standards. In conjunction with the Early Childhood and Family Studies Program within the School of Curriculum and Teaching and the College of Education, the Kean University Child Care and Development Center (KUCCDC) demonstrates best early childhood practice inspired by the Reggio Emilia approach to education. This dynamic approach to emergent curriculum offers many opportunities for children to become engaged in meaningful literacy, math, science and social studies activities, using the children's interests as a springboard for developing studies and investigations. Children ages two and a half to five may attend three, four or five days a week while their parents attend classes or are employed on campus. Today, the program is also open to the public and enrolls children from neighboring communities. Children enrolled in the Center must attend a minimum of three days a week for consistency and to achieve the maximum benefits from a preschool program. Drop-in hours are not available. The Center is open Monday through Friday, 7:45 a.m. to 5 p.m.; extended hours are available for an additional fee. Summer hours are determined in the spring of each year.

Evening Care is offered Monday through Thursday, during fall and spring semesters, only, from 4:15 p.m. to 7:45 p.m. for children three to twelve years of age. Homework assistance, creative arts, game and reading time is provided, as well as a light supper. Further information and tuition rates may be obtained by calling the Center at (908)-737-5300.

The Center is located in the campus school complex (Campus School North) across from Harwood Arena. Students, from various disciplines of the University, may observe young children's growth, development and learning as part of their academic coursework. Students majoring in Early Childhood Education may apply for junior field practicum, at the Center, through the Teaching Performance Center. In addition, graduate students may apply for an assistantship position at the KUCCDC through the Nathan Weiss Graduate School. Employment opportunities are also open to undergraduate students who have a passion for working with young children. Work study opportunities are also available through the Financial Aid Office.

COOPERATIVE EDUCATION

At Kean University, titles of the co-op experience vary; they may be designated as internships, apprenticeships, or co-op education. Further information may be obtained by contacting the respective School's Executive Director or the Department Chairperson.

DISTANCE LEARNING

Distance Learning courses are available at the undergraduate and graduate level and may involve various contemporary instructional models to accommodate the needs of students. A number of offerings are partially or entirely web-based and allow individualized study activity by students who may access course content via the Internet. Students are asked to consult program advisors and Kean Wise for the most current information.

EXTERNAL EDUCATION

External Education courses are designed for mature, upper-division undergraduate students whose family and/or work responsibilities make it difficult for them to attend regular classes. External courses are adapted for individualized study and employ a variety of teaching-learning strategies. Students enrolled in these courses are responsible for individual course requirements and completing course assignments outside a traditional setting.

A student may take a maximum of two external courses per semester. Full-time undergraduates, under exceptional circumstances, may petition to enroll in an additional external course as part of an academic workload.

Currently, a very limited number of external education courses are offered. Students should consult with their faculty advisors regarding other options, such as online courses.

HOLOCAUST RESOURCE CENTER

The Holocaust Resource Center (HRC) is a joint initiative of the University and the Holocaust Resource Foundation, a private philanthropic organization. Since 1982, the Center has created an extensive collection of academic, audio-visual, and instructional materials to strengthen and commemorate education about the Holocaust, other genocides, and issues of diversity and prejudice, including over 200 interviews with New Jersey survivors and liberators. The Holocaust Resource Center partners with educators, community organizations and scholars to offer programming and disseminate information. It also sponsors a Holocaust lecture series that attracts distinguished speakers with national and international reputations.

The HRC offers free graduate courses to train educators to incorporate Holocaust lessons in their curricula. Located on the second floor of the Nancy Thompson Library, the HRC is home to Kean's Diversity Council, a partnership of member school districts and the Kean University College of Education, dedicated to the active pursuit of human dignity and understanding through diversity and multiculturalism. For further information, please call (908) 737-4660.

HUMAN RIGHTS INSTITUTE

The Human Rights Institute (HRI) at Kean University educates, conducts research and raises awareness and consciousness among students, faculty, the general public, and decision-makers in government. It pursues its mission through curricular offerings, workshops, student organizations, and major symposia and conferences on human rights issues.

The HRI is housed in a new addition to the Nancy Thompson Library. This facility provides the Institute with seminar rooms, offices, a conference center and state-of-the-art gallery that is used to highlight issues, artwork, films, and publications related to human rights violations and victories around the world.

AUDIO VISUAL TECHNOLOGY

The primary function of Audio Visual Technology is to provide centralized leadership in the use of instructional technologies that are supportive of the academic goals and programs of the University. Audio Visual Technology provides support aimed at excellence in learning, teaching and research. Please visit our website at www.kean.edu/~avt for more information. AVT is located in H-132 and can be reached at (908) 737-6000.

OFFICE OF ALUMNI RELATIONS

The mission of the Office of Alumni Relations at Kean University is to build and maintain a strong and mutually beneficial relationship between the University and its alumni. Alumni Relations provides many services and benefits for over 90,000 Kean University alumni, as well as offering advantageous programming and events to encourage alumni to stay involved with their alma mater.

The Office of Alumni Relations also supports the Kean University Alumni Association, into which every graduate of the university is automatically granted membership. For more information about alumni benefits, programs and events, or the Alumni Association, contact the Office of Alumni Relations, located in Townsend Hall, Room 122, by phone (908)737-ALUM, email - alumni@kean.edu or visit our website at www.keanalumni.org

LIBRARY SERVICES

The Nancy Thompson Library offers a broad range of services designed to meet the academic information needs of the Kean community. The Library provides a knowledgeable and friendly staff to help students find the resources they need to succeed. The Library's holdings include over 200,000 print volumes, 17,000 electronic books and access to over 45,000 electronic journal subscriptions. The Library is also the home of the Holocaust Resource Center and adjoins the Human Rights Institute. The Student Technology Lab is housed in the Library.

A current validated Kean University picture ID is required to borrow materials from the library. Bring your current picture ID to the circulation/reserve desk for library barcode validation. A Kean Google email username and

password is required to access library resources from off-campus.

If the Library does not own a book or have an article you need, it can borrow the book or get a photocopy of the article from another library. It also has arrangements with other New Jersey academic libraries that allow you to borrow books from a participating library.

The University Librarian cordially invites all students to visit the Library. Librarians are available at the reference desk, online, and by appointment to help students find needed resources and fully utilize the services provided.

BOOKSTORE

Kean University Bookstore (part of the Barnes & Noble College family) is the unmatched provider of "what's next" in campus retail and digital learning experiences. The bookstore strives to deliver students and faculty an experience driven by innovation, deep student and faculty insights, and advanced technologies. The campus store is a destination that supports the academic and social lives of all members of our campus community, with a focus on affordable course materials, must-have apparel, groundbreaking technology and an overarching commitment to Kean University's vision. Please visit our new location on the first floor of the Green Lane Academic Building. To learn more, visit www.kean.bncollege.com.

Kean Ocean students utilize the Barnes and Noble branch located in the Jon and Judith Larson Student Center. To learn more visit www.ocean.bncollege.com.

R.O.T.C. (RESERVE OFFICERS TRAINING CORPS) PROGRAM

U.S. AIR FORCE R.O.T.C.

Through an agreement with the U.S. Air Force and New Jersey Institute of Technology, full-time undergraduate students may pursue an Aerospace Studies Option (U.S. Air Force R.O.T.C.). Details are available by calling N.J.I.T. at (973) 596-3626.

U.S. ARMY R.O.T.C.

Through an agreement with the U.S. Army and Seton Hall University, full-time undergraduate students may pursue a Military Science Studies Option (U.S. Army R.O.T.C.). Details are available by calling Seton Hall at (973) 761-9446.

SERVICE LEARNING PROGRAM

Service Learning provides students with an opportunity to engage in course-related service activities within community and not-for-profit agencies. The service experience is integrated in various ways into course content. Students earn one additional course credit for the 40 hours devoted to community service and may apply community service for credit on co-curricular transcripts and to enhance their resume.

STUDENT TECHNOLOGY LABORATORY

The Student Technology Laboratory located in L-141 is an open-access student lab whose primary purpose is to provide software support for Microsoft Office products to Kean University students with a valid Kean ID card. The lab is equipped with 47 Dell computers, three printers, including two express printing stations.

CAMPUSALERT™

The university has purchased CampusAlert™, a notification system for Campus Crisis Management, and First Responder Communication. It is a secure, notification platform for sharing critical information. The CampusAlert™ system allows for the most flexible means of communicating with our students, faculty and staff. Whether your preference is a text message, email or a phone call, the system supports any of these options or all simultaneously.

Kean University will utilize this system to notify the university community of announcements and/or emergencies.

In order to take advantage of the benefits this service provides; students and faculty must register by following the instructions below.

Instructions:

1. Go to www.mir3.com/kean
2. Type in your Kean University e-mail address or other e-mail address
3. Type in a password that you will easily recall.
4. Input your name.
5. Providing your cell phone number and landline telephone number will generate the message to these numbers as well.

Students are encouraged to sign up for this benefit found on Kean's homepage www.kean.edu

Since Kean Ocean emergency closure and notifications follow those of Ocean County College, Kean Ocean students are also encouraged to sign up for VikingAlerts. For more information and instructions for signing up, please visit: https://www.ocean.edu/content/public/current-students/Viking_Alerts_Emergency_Text_Messaging_System.html

COPYRIGHT COMPLIANCE AND ELECTRONIC FILE SHARING OF MEDIA

KEAN UNIVERSITY POLICY ON ELECTRONIC FILE SHARING OF MEDIA

University computing resources are the property of Kean University, and are provided to current students, faculty, staff members, visitors, and agencies as a privilege rather than a right. Users must comply with all local, state and federal laws, including, but not limited to, laws regarding libel, harassment, privacy, copyright infringement, theft, and threats. All of Kean University's policies extend to computer use. All persons who use University computer resources have the responsibility to respect and follow the policies set below and to honor

the ethical norms associated with the highest standards of professional conduct.

Downloading, copying and sharing material, such as music, movies, games, and applications, for which the copyright holder has not given permission is a violation of Federal copyright law (www.copyright.gov), the Digital Millennium Copyright Act (*a federal law which protects the interests of copyright holders in regard to digital media*) as well as, the Kean University Acceptable Use Policy (<http://www.kean.edu/~ocisweb/PDFfiles/Computer%20Related%20Acceptable%20Use%20Policy.pdf>).

More recently the Federal government amended the Higher Education Opportunity Act of 2008 to explicitly outline the process colleges and universities must employ to combat the unauthorized use of copyrighted materials.

HIGHER EDUCATION OPPORTUNITY ACT 2008

Effective July 1, 2010 all colleges and universities that receive Federal funding for Title IV. Programs must be in full compliance with the Higher Education Opportunity Act of 2008 (HEOA), Public Law 110-315, also referred to as H.R. 4137. HEOA requires colleges and universities to proceed as follows to combat the unauthorized distribution of copyrighted materials:

- Institutions must make an annual disclosure that informs students that the illegal distribution of copyrighted materials may subject them to criminal and civil penalties.
- Institutions certify to the Secretary of Education that they have developed plans to "effectively combat" the unauthorized distribution of copyrighted material.
- Institutions, "to the extent practicable," offer alternatives to illegal file sharing.
- Institutions identify procedures for periodically reviewing the effectiveness of the plans to combat the unauthorized distribution of copyrighted materials.

UNIVERSITY PLAN TO KEEP THE CAMPUS INFORMED AND PREVENT ELECTRONIC COPYRIGHT INFRINGEMENT

Consistent with the University's academic principles and ethical practices, we view education as the most important element in combating illegal sharing of copyrighted materials. Therefore, in order to use University computing resources, all members of the Kean University community are advised of the Acceptable Computer Use Policy upon accessing the University network.

In addition the following strategies are in place:

- Effective fall 2010, posters will be mounted in student life areas and various computer labs to discourage illegal file sharing;
- Computing support staffs, student Help Desk workers, Resident Assistants, and Academic Instructional Mentors, are regularly trained on the University's policies with respect to copyright issues. Student workers provide an important channel for communicating with the student community;

- Kean University's policies and procedures concerning the Digital Millennium Copyright Act and our response to infringement claims are published on the OCIS web site, and in The Guide.
- Each semester, all University employees will receive an email from the Office of Computer Information Services (OCIS) regarding copyright infringement and related issues, effective July 1, 2010.
- The 2010 Orientation issue of the Cougars Byte newsletter included an article outlining the University's policy concerning illegal downloading of copyrighted materials.
- A paper copy of the Kean University Policy on Electronic File Sharing of Media will be supplied upon request by contacting the Office of the Vice President for Student Affairs, Kean Hall, room 124, or by calling (908) 737-7080.

CRIMINAL PENALTIES AND UNIVERSITY SANCTIONS FOR ILLEGAL FILE SHARING

Federal Copyright Law www.copyright.gov, specifies that the reproduction or distribution of copyrighted work is illegal and the following penalties apply:

Civil and Criminal Penalties for Violation of Federal Copyright Laws

In general, anyone found liable for civil copyright infringement may be ordered to pay either actual damages or "statutory" damages affixed at not less than \$750 and not more than \$30,000 per work infringed. For "willful" infringement, a court may award up to \$150,000 per work infringed. A court can, in its discretion, also assess costs and attorneys' fees. For details, see title 17, United States Code, Sections 504, 505.

Willful copyright infringement can also result in criminal penalties, including imprisonment of up to five years and fines of up to \$250,000 per offense.

University Procedures and Sanctions for Illegal File Sharing

The Office of Computer Information Services (OCIS) will disable computer network access if a computer appears to be connecting to multiple other computers or exhibiting other properties that violate the University's network usage policy. When a port is disabled, the registered owner of that computer will be notified that the computer could potentially be compromised, and will be offered contact information to assist in cleaning/repairing the software on that computer. Once the problem has been rectified, the computer will be allowed back on the network. Kean University does not support or tolerate in any way the downloading or sharing of copyrighted material and this is an explicit violation of university policy and United States copyright laws.

When notifications of copyright violations are received from recognized groups, such as the Recording Industry Association of America's (RIAA), the registered owner of the computer will be notified. Access to the network will be removed for 14 days. After 14 days, if the offending material has been removed, the com-

puter will be allowed back on the network. The appeal process is through the Office of the Vice President for Student Affairs.

A second violation will result in the computer being banned from the network for one month. After one month, if the offending material has been removed, the computer will be allowed back on the network.

A third violation will result in the computer being banned for a semester. In addition, the user will be required to meet with the Office of Student Conduct and further disciplinary action may be taken against the user at that time (<http://www.kean.edu/~conduct>).

OCIS MONITORING AND TECHNOLOGY-BASED DETERRENTS

In order to monitor against misuse of the network, Kean University is utilizing a packet shaper to all but eliminate P2P access from on campus. This plan is reviewed on an annual basis. The plan will continue to be considered successful as long as the University is not receiving "Notice of Claimed Infringement" by a copyright holder.

FREQUENTLY ASKED QUESTIONS

Q: What is copyrighted material?

Copyrighted material that is illegally distributed over the Internet can take many forms including, but not limited to, the following:

- **Music:** may take the form of MP3s or WAV files either ripped (or copied) from CDs or downloaded and redistributed without permission.
- **Movies or Television Shows** which have been recorded and digitized ripped (or copied) from DVDs, DVRs or TV Cards.
- **Written works:** may take the form of eBooks, PDFs, or HTML pages distributed without permission.
- **Photographs:** includes graphics copied from other web sites.
- **Software:** includes software applications such as games, operating systems, applications that were not purchased by you and have no valid license.

Q: How are copyrighted material distributed illegally?

Copyrighted material is illegally distributed over the Internet by several methods including, but not limited to, the following:

- **Peer-to-peer (P2P) software:** consists of many computers connected in a network for uploading and downloading files; these networks use software like BitTorrent, AresWare, BitComet, Morpheus, DirectConnect, Limewire and many more.
- **FTP (file transfer protocol):** consists of one computer serving files to its clients on a continual basis.
- **IRC (internet relay chat):** a form of real-time internet chat through which users can create file servers that allow them to share files with others.

Q: How can a copyright holder find out if I have copyrighted materials on my computer?

Copyright holders can search the Internet to determine whether copyrighted material is being illegally distributed. They often

search with the same peer-to-peer software (KaZaA, Bit Torrent, mIRC, AresWare etc.) used by those who share files. To avoid any problems, make sure that you are not making any files available for download that you do not have permission from the copyright owner to share. The simplest way to comply with this is to delete the files or to turn off/uninstall any file sharing software you have on your computer.

When an infringing file is found, a copyright infringement notice is issued to the network provider from which the file was transmitted. Many users sharing illegal files are under the false assumption that by not providing any personal information, or providing false information, there is some anonymity when using these P2P applications. However, any activity on the Internet can be tracked back through your Internet Service Provider to your computer. Kean University, as your Internet Service Provider when you are on campus, will receive these notices, lookup the computer by IP address and forward the warning.

Q: If my computer is found to have copyrighted materials, what steps can the copyright holder take against me?

Copyright owners can file civil suits to recover damages and costs. In many cases, statutory damages of up to \$30,000, or up to \$150,000 for willful infringement, may be awarded even if there is no proof of actual damages. In addition, in certain cases of willful infringement, the government can file criminal charges, which can result in substantial fines and imprisonment. Use of an academic network does not provide immunity from copyright law, nor can Kean protect its students, faculty, or staff from criminal investigations or lawsuits relating to their personal actions.

Q: How does illegally distributed material, or sharing that material, affect me?

Illegal file sharing affects every user on the Kean University network. If you are on the University's network either in an office, in a residence hall, in a public lab, or a visitor to our network from off-campus, you can experience the affects of slower Internet speed resulting from illegal file sharing. Most file sharing software also comes bundled with malware such as spyware or adware. Sometimes this malware remains installed on the system even if the original file sharing software is removed, and can be very difficult to eliminate. In many cases such malware can interfere with the correct operation of web browsers, anti-virus and anti-spyware software, software firewalls and can cause degraded performance on affected systems. If you are faculty, staff, or a student using the University network and you are distributing files illegally you may experience:

- Increased virus attacks against your computer. Spyware installed on your computer without your knowledge. (Especially if using P2P software)
- Potential lawsuits.

Q: How do I prevent potential copyright problems?

Do not share copyrighted material and uninstall any file sharing software on your comput-

er. If you never install a peer-to-peer program, you will dramatically reduce the chances of your computer being infected by a virus, installing spyware, or being sued.

Q: Is it legal to download or store copyrighted materials on my computer?

Generally, you are infringing copyright if you download or share copyrighted materials on your computer without the permission of the copyright owner, unless fair use or another exemption under copyright law applies. Most downloading over the Internet of commercially available copyrighted works, such as music or movies, through file sharing systems is illegal.

If you purchase/download music, movies or other copyrighted material legally, via iTunes or other legal sites, you are well within your rights unless you then share that material with others who have not paid for it. That would be a copyright violation.

Q: Where can I download legally?

A number of services exist where you can legally download music, software, television shows and movies.

- iTunes, from Apple (Music, TV, Movies, Audio Books)
- Napster (Music)
- Sony Connect (Music)
- WalMart (Music)
- Yahoo (Music)
- MSN (Music)
- CinemaNow (Movies)
- Audible.com (Audio Books)
- Google Video (Movies and TV)

You can now also watch many television shows and other video free at the following sites:

- ABC (Many full episodes of ABC shows)
- CBS Innertube (Many full episodes of CBS shows)
- NBC Universal (Many full episodes of NBC shows)
- Google Video
- YouTube

Frequently Asked Questions borrowed from Rowan University Technology Toolbox:
<http://www.rowan.edu/toolbox/policies/dmc/a/index.html>

ATHLETICS

Kean University sponsors 13 varsity sports in intercollegiate competition. It retains Division III membership in the National Collegiate Athletic Association (NCAA), Eastern College Athletic Conference (ECAC), Skyline and New Jersey Athletic Conferences (NJAC).

Men at Kean compete in baseball, basketball, football, lacrosse, soccer and volleyball.

Women at Kean compete in basketball, field hockey, lacrosse, soccer, softball, tennis and volleyball.

Further information concerning athletics at Kean and opportunities to participate may be obtained from the director of athletics at (908) 737-0600.

RECREATIONAL SPORTS

The Department of Recreational Sports is dedicated to providing quality recreational opportunities for the campus community. To meet the diverse needs and interests of these members, a comprehensive and innovative recreational package has been developed.

Programs include Intramural Sports, Fitness Classes, Informal Recreation, Outdoor Recreation, and Recreational Facilities Reservations. Most recreation activities are located in the Harwood Arena, D'Angola Gym, Carole Hynes Field House and East Campus. Facilities include: three gymnasiums; three fitness centers, which are equipped with modern free-weights and cardio equipment; an indoor pool; locker rooms and an elevated jogging track. Aerobics, yoga, Zumba and martial arts classes are also available. Locker rooms, and showers are available and it is requested that users bring their own locks, which must be removed each day.

Hours for the Recreational Center are available by calling the Recreation Office at (908) 737-0611. Facility users must present a valid Kean University picture identification prior to admission. IDs are available at the Student Accounting Office, 3rd floor Administration building.

RECREATION

Recreation is programmed year-round for the entire Kean community. It covers many interest areas, fulfilling needs for vigorous exercise and competition, for light activity and for relaxation.

The numerous tennis courts, the swimming pool, the basketball courts and the gymnasiums are open at special hours for students, faculty and staff. Intramural sports are scheduled during both the fall and spring semesters. Particular emphasis is placed on making extended recreation available to the student residents of the University Apartments. A picnic grove is adjacent to the Library and University Center.

The Office of Campus Recreation coordinates the programming and use of all facilities connected with recreation and may be contacted for further information.

The office is located in the Harwood Arena Room A 219 and can be reached at 908-737-0611.

Office of the Registrar

The Office of the Registrar provides services regarding:

- class registrations
- academic records
- grade re-calculations
- graduation/ transfer evaluations
- name and address changes
- enrollment verifications
- academic transcripts
- degree audits (including the evaluation of transfer credits)
- student success and retention initiatives
- readmission/reactivation
- Graduate Student Services

REGISTRATION

All students register online via KeanWISE. Priority for the registration period is determined by the number of credits earned toward the degree. Students who do not take advantage of their designated credit registration time, will be able to register during the ongoing registration cycle. The University does not guarantee offering all courses listed in this catalog. When there is inadequate registration for a course, it may be cancelled without notice. The registrar will notify students of course cancellations via their Kean Google email accounts. Room changes are updated in the online schedule and students are encouraged to review their schedules for any changes prior to the beginning of classes each semester.

READMISSION/REACTIVATION

As of Spring 2017, readmission services will be provided by the Office of the Registrar (Administration Building, First Floor). Current readmission/reactivation procedures are under review and subject to change. For more information contact the One Stop Service Center in the Office of the Registrar at (908) 737-3290.

Students seeking readmission must apply online following the instructions provided at:

<http://www.kean.edu/admissions/transfer-admissions/transfer-application-instructions>

Previously enrolled Kean undergraduate students in good academic standing (cumulative GPA of 2.0 or higher) who have not completed courses or received any grades (including W grades) at Kean University for two or more consecutive semesters (fall/spring or spring/fall) are no longer considered active students and must apply for reactivation/readmission to the University.

Students who have missed two or more consecutive semesters because they are called up for active military duty do not have to reapply. However, they should contact the Office of Veteran Student Services (CAS-208) at (908) 737-0367 or email veteran@kean.edu in advance of their return to Kean University.

Students who miss one semester only are considered Stop-Outs and do not need to apply for readmission. Readmission to the University mandates that the student be subject to current University curriculum and academic standards requirements. Readmitted Students within 12 credits of graduation are grandfathered under their previous requirements unless certification or other requirements prohibit this option. Readmission to the University does not constitute readmission to a specific academic major program.

Readmission to the University is not guaranteed. Applicants who have attended other institutions will be evaluated for readmission based on their cumulative academic performance at all schools attended (including Kean). Official copies of transcripts from all other colleges attended must be on file before the application for readmission is considered complete.

Students who have been academically dismissed ARE NOT eligible to apply for readmission. They can ONLY seek reinstatement and should refer to the policy in the section "Reinstatement after

Academic Dismissal or Discontinuance", along with the current policy on Academic Amnesty.

OFFICIAL TRANSCRIPT REQUESTS

Official transcripts must be requested online at www.getmytranscript.org. Exception: Students who attended prior to Fall 1980 must instead complete the *Transcript Request Form* and bring or mail it to the Office of the Registrar (Administration Building First Floor, 1000 Morris Avenue, Union, NJ 07083). This form is available online at: http://www.kean.edu/sites/default/files/u4/Transcript_Request_Form.pdf.

Transcript fee is \$10.00 per official copy (the \$10.00 fee covers all undergraduate and graduate coursework). Transcripts will not be released to those with outstanding obligations to the University.

WITHDRAWAL FROM A COURSE

In order to withdraw from one or more courses a student must either do so in person with a valid photo ID, or submit written notification (a letter listing the student ID number and sufficient information to identify the course section to be dropped) to the Office of the Registrar. In person, Kean Ocean students can drop courses through the Kean Ocean Administrative Office, Gateway 103. Students may also email, from their Kean Google account, their request to withdraw to regme@kean.edu. For security and privacy purposes, requests for withdrawal via the phone or non-Kean Google email accounts will not be processed. The request must be received in the Office of the Registrar or postmarked by the deadlines. Students who withdraw from a course during the first third of the semester or who withdraw from a course no later than one week past mid-semester will receive a grade of "W". The withdrawal grade is not counted in the cumulative grade point average.

Any student who does not officially withdraw on or before the withdrawal date published in the academic calendar will be given a letter grade that reflects his or her achievement in the course.

GRADE REPORTS

Students can view and print term grades along with their entire academic record via KeanWISE. Grade reports are not mailed to students.

CHANGE OF NON-RESIDENT STATUS

Students classified as non-residents subsequent to their first semester must complete a petition for New Jersey Resident Tuition Classification in order to change their non-residency status for tuition purposes. This petition must be filed prior to the start of the semester for which a change of residency is requested. Students will be expected to substantiate their request with sufficient proof that they qualify for New Jersey resident rates.

Students living in New Jersey for the sole purpose of obtaining their education are not

eligible for resident rates. For a copy of the petition or for further information concerning New Jersey residency, contact the Office of the Registrar, 1st floor, Administration Building, or call (908) 737-3290. Kean Ocean students can contact the Kean Ocean Administrative Office, Gateway 103, 732-255-0356.

NEW JERSEY RESIDENT TUITION REQUIREMENT

In order to qualify for the New Jersey resident tuition rate, the student, if financially independent, or the parent or legal guardian on whom the student is financially dependent, must:

1. Be a U.S. citizen or have permanent residency in the United States, and
2. Have a bona fide domicile in the state of New Jersey for at least one year prior to the start of the semester. Students who do not fulfill the above requirements will be considered non-residents for tuition purposes and will be charged non-resident rates.

Students who hold temporary visas to the United States are considered to be New Jersey non-residents. The University reserves the right to require a student to prove New Jersey residency for a given semester.

Office of Admissions

Kean University's Office of Admissions is responsible to recruit, select, admit and assist prospective freshman, transfer, graduate and international students who demonstrate the highest probability for persistence, academic success and graduation from Kean University.

Applicants are admitted to Kean University on the basis of academic and extracurricular qualifications. The recruitment and admissions procedures are used to select the most qualified students for the University. Each applicant is considered carefully in light of his/her secondary school record, performance on the SAT or the ACT exam, prior college credit completed, and the University's determination of potential for college success.

Alternative opportunities for admission can be discussed with an admissions counselor.

Undergraduate Admissions services include open house events, campus tours, onsite decision programs, high school visits and individual counseling.

Inquiries concerning undergraduate admission should be addressed to:

Office of Undergraduate Admissions
Kean University
1000 Morris Avenue, Union, NJ 07083
Office telephone: (908) 737-7100.
Email Address: admitme@kean.edu

Inquiries concerning undergraduate admission for Kean Ocean should be addressed to:
Kean Ocean Admission

Gateway Building, Room 103
College Drive
Toms River, NJ 08754
Telephone: (732) 255-0356
Email: koadmission@kean.edu

Freshmen are admitted to the fall and spring

semesters only and transfer applicants are eligible to apply for the fall, spring, winter, summer I and summer II sessions. The University expects that all applicants offered admission will register for classes for the semester immediately following acceptance. Accepted students that provided any misrepresentation or omission of fact on their application to the University may constitute cause for nullification of their application prior to admission or dismissal following admission.

GENERAL STATEMENT-FRESHMAN ADMISSION

Kean University is interested in strength of character, personal initiative, and seriousness of purpose.

Kean University values what diversity varied interests and backgrounds can bring to the University community. Kean University is interested in having a student body that represents different parts of the United States as well as foreign countries.

To provide all students consideration for a college education, alternative opportunities for admission are possible. In some cases, programs such as the Educational Opportunity Fund (EOF) Program, housed in the Educational Opportunities Center (EOC), is designed for applicants in need of academic support and financial assistance.

PREFERRED FRESHMAN APPLICATION DEADLINES:

December 15 for Spring semester
December 1 for fall early action application
April 30 for EEO/EOF application
April 30 for Traditional Freshman application for the fall semester
Rolling Admission until August 1 for freshman applicants for the fall semester.

HOW TO APPLY:

1. The application is available on the website, www.kean.edu or via the common application at www.commonapp.com. Credit card payment is required when applying. There is a \$75.00 non-refundable application processing fee. (Fee is payable to Kean University by online payment, check or money order. CASH will not be accepted).
2. Submit official SAT or ACT scores (the College Board code number for Kean University is 2517, the ACT code number is 2582).
3. Submit an official copy of the high school transcript. All offers of admission for freshmen are contingent upon the receipt of an official final high school, or G.E.D. transcript that shows the date of graduation and the successful completion of all required academic units.
4. The high school transcript must show at least 16 in progress or completed college preparatory units in:

English	4
Social Studies	2

Science (Laboratory)	2
Mathematics (Algebra I, Algebra II and Geometry)	3
Approved electives in English, Social Studies, Science, Math or Foreign Language	5

5. Applicants 25 years of age or older, with little or no college background and no SAT scores, may be considered through the **EPIC Program** (Entry Program Into College) as part-time students.
6. Items that are not required for admission but are recommended, are two (2) letters of recommendation and one (1) personal statement

AFTER YOU HAVE APPLIED:

1. Accepted freshmen will be invited to take the ACCUPLACER Placement Test at Kean which enables an admitted student to be eligible for registration.
2. Candidates will be exempt from taking all or part of the ACCUPLACER Placement Test with the following scores: SAT Critical Reading score is 520 or above; SAT Math score is 530 or above and the SAT Writing score is 520 or above (on the former SAT); or a 480+ on the Evidence based Reading and Writing and a 530+ on the math section (on the Redesigned SAT). Students with a 23 Composite ACT score are exempt from placement testing.
3. Candidates denied admission to the University can appeal to the Undergraduate Admissions Office Appeals Committee for reconsideration. If a second request is denied, the University reserves the right to withdraw the applicant from further consideration.
4. A tuition deposit of \$175.00 is required in order to reserve an accepted students place in the class and to register for classes. Tuition deposits can be paid online at www.kean.edu/deposit and are non-refundable.

IMPORTANT INFORMATION:

Applicants are encouraged to visit the campus. For specific times and events visit our website at <http://www.kean.edu/admissions/visit-kean>

CANDIDATES ACCEPTED TO THE UNIVERSITY MUST COMPLETE AND RETURN THE FOLLOWING:

1. A tuition deposit of \$175.00 to reserve your space in the class. (Fee is payable to Kean University by check, money order or online). The tuition deposit is non-refundable.
2. If applying for housing, complete the online Residence Application with the \$125 non-refundable housing application processing fee
3. Complete and submit the required Immunization forms to the Office of Health Services. You can access the forms at <http://www.kean.edu/offices/health-services/immunizations>

Alternative Freshman Admissions Programs

EDUCATIONAL OPPORTUNITIES CENTER-EXCEPTIONAL EDUCATIONAL OPPORTUNITIES (EEO)/EDUCATIONAL OPPORTUNITY FUND (EOF) PROGRAM

Applicants eligible to participate in the EEO/EOF Program are New Jersey residents who (1) may not be admissible to the University under the regular admissions standards; (2) hold standardized test scores (such as the SAT) that may be below the institutional norms; or (3) bear an educational background which indicates the need for academic support.

After admission, all EEO/EOF students attend the Pre-Freshman Summer Program immediately prior to the fall semester of the freshman year. The summer program is designed to strengthen writing skills, reading and study skills, and mathematical concepts based upon an individual assessment of academic needs. Academic Foundation courses and supportive services in academic coaching/tutoring, academic advisement, financial aid, personal, social and career counseling begin in the summer program and continue through graduation.

ADULT LEARNER/EPIC PROGRAM

EPIC (Entry Program into College) is an admission program designed to facilitate the first entry, or re-entry, to higher education of adult applicants, 25 years of age or older, who have been away from formal schooling for five years or more and have taken no more than 15 college credits. Academic advisement and counseling are provided by the EPIC Coordinator. If accepted for part-time enrollment, EPIC students remain in the program through the successful completion of 18 credits at Kean University. After the successful completion of 18 credits, EPIC students can register as a full-time student.

SPANISH SPEAKING PROGRAM ADMISSIONS

(SSP) SPANISH SPEAKING PROGRAM/PROGRAMA HISPANO

The program provides access to higher education to Hispanic Limited English Proficient students. Students are offered college courses in Spanish during the first two years of their curriculum. These courses allow the students to make progress in their studies while they acquire the necessary knowledge of English through the English as a Second Language Program (ESL). Academic advisement and support services to freshman and sophomore students are provided by the Spanish Speaking Program Academic Advisors. In order to be eligible for the program, the student must have been enrolled in ESL courses while attending High School for at least one year. The student must also have a minimum 2.5 cumulative GPA at the time of application for admission. SAT/ACT is not required for admission into the Spanish Speaking Program. Students who studied outside of the United

States must have their transcripts evaluated and translated by an N.A.C.E.S.- accredited foreign credential evaluation agency. A course-by-course evaluation is required that identifies and describes each diploma or certificate, indicates periods of education, and provides an equivalency to a U.S. high school diploma for each document. Cumulative GPA must be included.

INTERNATIONAL ADMISSIONS

Kean University is deeply committed to a strong international student presence on campus and currently enrolls citizens from over 45 countries. Applications for admission as an international student must be filed in the Office of Undergraduate Admissions no later than November 1 for the spring semester and May 31 for the fall semester. The international application process is similar to that for U.S.A. citizens and permanent residents of the United States with the following exceptions.

FRESHMAN APPLICANTS STUDYING OUTSIDE THE UNITED STATES

1. Applicants who are not citizens or permanent residents of the United States who are seeking (F1) U.S. Immigration status may apply for admission to Kean University.
2. Certified copies of all academic records are required. Evaluations of transcripts from an international secondary school that uses a grading system different from the U.S. system including translations may be required. If applicable, evaluations must be by one of the NACES (National Association of Credential Evaluation Services) agencies: www.naces.org
3. The Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) is required of those for whom English is not their native language.
4. International students must also submit a completed International Student Supplement I-20 Application to the Office of International Student Services available at www.keaninternational.com.
5. Complete and submit an Affidavit of Financial Support Form. This form must be completed in English and must be completed by all persons (sponsors) financially supporting the student. All questions must be answered. Affidavits must be signed by the sponsor.
6. International students who want to transfer university credits to Kean University must have their international university transcripts evaluated by one of the evaluation agencies for credit to be transferred.
7. Include a copy of passport photograph page/s, if available.
8. It is the applicant's responsibility to guarantee the authenticity of all submitted credentials. This includes notarized translations of official documents and certified school transcripts signed by the appropriate school staff member. Copies of transcripts are accepted but must be signed and stamped by either an administrator of the student's school, a U.S. Embassy official, a Ministry of

Education official, or a U.S. Overseas Advising Office staff member.

9. A non-refundable application fee of \$75.00 (USD), made payable to Kean University must accompany the application (check or money order). Credit card payment is required when applying online.
10. Freshmen applicants studying in a United States secondary school are required to submit official SAT or ACT test scores. (The College Board code for Kean University is 2517; the ACT code is 2582).

For additional information regarding international applications, please contact the Office of Undergraduate Admissions by email at admitme@kean.edu.

ADMISSION OF VETERANS

Veterans will be permitted to file applications after the deadline, provided the date of release from active duty occurred within two months prior to the date of application. Veterans, service members, and dependents using veterans benefits are expected to adhere to the admissions criteria as established by the Office of Undergraduate Admissions. The Office of Undergraduate Admissions must receive applications at least 30 days before the beginning of the semester for which the candidate wishes to enroll. If the applicant has fewer than 15 eligible credits on their transcript, they will be accepted as a new freshman. If they have 15 or more credits on their transcript, they will be accepted as a transfer student. The SAT requirement is waived for veterans and service members. Application fees are also waived for veterans, service members, and dependents using veterans benefits. The applicant must speak with personnel from Veteran Student Services (VSS) in order to waive the fee. The applicant must contact VSS prior to the start of their classes in order to receive their veterans benefits.

For additional information, contact:
Office of Veteran Student Services
(CAS) Room 208
(908) 737-0367
veteran@kean.edu
<http://cas.kean.edu/veterans/>

GENERAL STATEMENT-ADMISSION OF TRANSFER AND SECOND BACCALAUREATE DEGREE STUDENTS

Contact information:

Undergraduate Admissions
Location: Kean Hall, First Floor
908-737-7100
admitme@kean.edu
www.kean.edu/admissions/transfer-admissions

The office of Undergraduate Admissions is responsible for the admission of transfer and second baccalaureate degree students. Students in these categories may apply for the fall, winter, spring, summer I or summer II sessions. Applications and all supporting documents must be received by the published deadlines. Admissions decisions are based on the quality of the candidate's previous college work and the availability of space.

For additional information on transfer credit policies, see Academic Standards and Procedures section.

Kean Ocean also has a branch office that handles admission and credit evaluations for transfer, readmit and second baccalaureate degree students for those baccalaureate degree completion programs offered on the Ocean County College campus in Toms River, NJ. Policies and procedures parallel those of the main campus.

Contact Information:

Kean Ocean Transfer and Readmission Services
Gateway Building, Room 103
(732) 255-0356
koadmission@kean.edu
<http://www.kean.edu/KU/Kean-Ocean>

For information on the undergraduate programs available at Kean Ocean, please visit: <http://www.kean.edu/KU/Undergraduate-Programs>

TRANSFER ADMISSION

A cumulative G.P.A. of no less than 2.0 (C) with 30 completed semester hours of transferable credit is required to be eligible for transfer to the University, excluding some honors programs which require a 2.5-3.0 G.P.A. for admission. Applicants with 15-29 completed college-level credits must have a 3.0 or better cumulative G.P.A. to be eligible for admission and may be required to take a placement test as a requirement of admission. Applicants with fewer than 15 completed college-level credits are not eligible for transfer admission but may be eligible for admission as freshmen with credits. Transfer students must indicate an intended major for admission (i.e., they cannot apply as "Undecided"). All students are admitted as "Intended" majors and must subsequently meet major program admission criteria and follow the University's declaration of major procedures to become "Declared" majors.

To be considered for admission, students must:

1. Complete the application online and submit it with the \$75 non-refundable application fee or applicable fee waiver.
2. Arrange to have official, sealed transcripts from all post-secondary institutions attended sent to Kean University. (Kean Ocean applicants should have their transcripts sent to the Kean Ocean Administrative Office, Gateway 103, College Drive, Toms River, NJ 08754). Transcripts from institutions not disclosed on the application may not be accepted for transfer credit, and can be grounds for rescinding the offer of admissions. Transcripts from international universities must be evaluated by a N.A.C.E.S. member evaluation service prior to admission. International students must also submit a completed International Student Supplement Application to the Office of International Student Services. This application and additional information can be accessed at www.keaninternational.com.

For International students transferring directly from institutions outside the United States, the Test of English as a Foreign

Language (TOEFL) is required of those for whom English is not their native language.

Accepted transfer students are not eligible to receive financial aid until **ONE** of the following means of proving ability to benefit from financial aid is received by Kean University.

1. An official U. S. high school transcript (sealed envelope) showing date of graduation or a foreign high school transcript evaluated by an N.A.C.E.S. evaluation service and determined to be equivalent to a U. S. high school diploma.
2. A G.E.D. or other certificate that is recognized as the equivalent of a high school diploma.
3. An official transcript from a New Jersey PUBLIC institution showing the successful completion of an A.A. or A.S. degree only. PLEASE NOTE: An A.A.S. degree **does not** fulfill this requirement.

Email admitme@kean.edu for additional information.

EEO/EOF TRANSFER PROGRAM

Applicants who have received an Educational Opportunity Fund (EOF) Grant at a college or university prior to enrolling at Kean University will have their application reviewed for possible acceptance through the Educational Opportunities Center and serviced by the Educational Opportunities Center (EOC)-EEO/EOF Program. Applicants are expected to indicate that they received EOF at their prior institution on the Transfer Admission application and to submit to EOC an EOF Transfer Form from their prior college.

JOINT ADMISSION AND ARTICULATION AGREEMENTS

Kean University guarantees transfer admission to students who have graduated with an Associates of Arts (A.A.) or Associates of Science (A.S.) degree from any of the New Jersey public county/community colleges. Enrollment at Kean is on a space available basis. Kean University has more than 300 program-to-program articulation agreements and honors the statewide transfer agreement for transferability of credits for A.A. and A.S. graduates from the N.J. public county/community colleges. For additional information or questions regarding joint admission, email admitme@kean.edu.

SECOND BACCALAUREATE DEGREE ADMISSION

Many programs at Kean University offer a second degree. To qualify for admission to a second baccalaureate degree program, the applicant must have earned a baccalaureate degree from Kean or any other accredited four-year college or university and have the GPA required for admission to the specific major program selected. Admission decisions are based on the cumulative G.P.A. of the degree granting institution and must meet the G.P.A. requirement for the intended major.

Applicants will be evaluated using the guidelines set by the University and the academic program. For admission into major programs

where special procedures are in effect (auditions, portfolios, interview, etc), similar procedures will be adopted for the second degree.

To complete a second baccalaureate degree, students do not need to complete Free elective or General Education requirements (except for courses that are pre-requisites for required courses) but must complete all major requirements and any additional required courses or University requirements for the second degree. A minimum of 32 degree credits, including at least one-half the major requirements, must be earned at Kean University after admission to a second baccalaureate degree program.

Candidates may take no more than six credits toward the second degree as non-matriculated students. Once accepted into the program, all coursework must be completed at Kean University.

To be considered for admission:

1. Complete the application online and submit it with the \$75 non-refundable application fee or applicable fee waiver.
2. Arrange to have official, sealed transcripts from all post-secondary institutions attended sent to Kean University. (Kean Ocean applicants should have their transcripts sent to the Kean Ocean Administrative Office, Gateway 103, College Drive, Toms River, NJ 08754). Transcripts from institutions not disclosed on the application may not be accepted for transfer credit, and can be grounds for rescinding the offer of admissions. Transcripts from international universities must be evaluated by a N.A.C.E.S. member evaluation service prior to admission.

VISITING STUDENTS

Visiting students who are enrolled in undergraduate or graduate programs at a regionally accredited college or university must have the home institution certify part IV of the Request for Registration Eligibility Form which is available online at: <http://www.kean.edu/offices/registrar/forms-and-policies>. A verification of current. A verification of current enrollment from the home institution may be substituted for this requirement.

Any student in need of accommodations due to a disability should contact the Office of Disability Services, 122 Downs Hall, 908-737-4910 or disabilityservices@kean.edu.

Office of Student Accounting

Student Accounting assists students and their families with information pertaining to tuition and fees, bills, payment options, payment plans, refunds, flex & meal plans and ensures the proper billing of students' accounts. We are committed to providing professional and courteous service in a timely manner.

The Office of Student Accounting is located in the Administration Building on the 3rd Floor and we are available to answer any financial-related issues, questions or concerns. Student Accounting is now paperless and we communicate with students via student's Kean University

email address. We utilize the Kean student portal, KeanWISE, for billing, payments, refunds, flex plan dollars and 1098T Enrollment.

Telephone: (908) 737-3240

Fax: (908) 737-3250

Email: stuactg@kean.edu

Office Hours (subject to change):

Monday – Thursday 8 a.m. - 6 p.m.

Friday 8 a.m. - 5 p.m.

Kean Ocean students can access services and see a representative from the Office of Student Accounting in the Kean Ocean Administrative Office, Gateway 103. 732-255-0356.

TUITION AND FEES

Tuition, fees and expenses are established by the Board of Trustees and are subject to change by the Board. Tuition rates are published several times during the year on the Student Accounting Kean Website <http://www.kean.edu/offices/student-accounting/tuition-and-fees> and KeanWISE.

Students should log on to KeanWISE to get updated billing as well as other related information regarding their student accounts.

Kean University Fall 2016/Spring 2017 Tuition & Fees

Full-Time Flat Rate

(12-19 Credits)	In-State	Out-of-State
Tuition	\$3,877.00	\$7,260.50
Fees	\$2,057.75	\$2,057.75
Total	\$5,934.75	\$9,318.25

Per Credit Rate

(Per Credits)	In-State Per Credit	Out-of-State Per Credit
Tuition	\$302.00	\$513.00
Student Leadership Fee	\$5.00	\$5.00
General Service Fee	\$53.00	\$53.00
Technology Fee	\$6.00	\$6.00
Library Improvement Fee	\$2.00	\$2.00
Capital Improvement Fee	\$64.00	\$64.00
University Center Fee	\$7.00	\$7.00
Athletic/Recreation Fee	\$9.00	\$9.00
Campus Improvement Fee	\$4.00	\$4.00
Transportation Fee	\$1.00	\$1.00
Total	\$453.00	\$664.00

Full-Time Overload

(More than 19 Credits) (Per Credits)	In-State Per Credit	Out-of-State Per Credit
	\$302.00	\$513.00

TUITION PAYMENT DUE DATES

Fall 2016: July 28, 2016

Spring 2017: December 15, 2016

Kean University reserves the right to adjust tuition and fees and published due dates.

OTHER FEES (NON-REFUNDABLE)

Late Registration Fee

Students registering after the tuition due date \$105.00

Students registering on or after the first day of classes	\$210.00
Re-Registration Fee	\$100.00
Returned Check Fee	\$50.00
Application Fee	\$75.00
Tuition Deposit UG/ (applied to semester tuition)	\$175.00
Housing Application Fee	\$125.00
Freshman/Transfer Orientation Fee	
Full-time	\$50.00
Part-time	\$30.00
Student Teaching Fee (assessed when student teaching assignments are made)	\$200.00
National Teachers Exam	\$20.00
Graduation Fee	\$100.00
Replacement ID Card Fee	\$15.00
Transcript Fee	\$10.00
Late Payment Fee (assessed monthly)	\$50.00
Payment Plan Enrollment Fee (as of Spring 2017)	\$40.00
Parking Fine	\$50.00

Please note additional fees for students in the College of Education

Student Teaching Internship	\$200.00
Pre-Professional Field Experience	\$100.00

Billing/Payment Information

- Billing and payment deadlines can be found on the Student Accounting Kean Website <http://www.kean.edu/offices/student-accounting/tuition-and-fees> or KeanWISE.
- Full payment is required for current semester charges unless student has enrolled in a payment plan or has been awarded financial aid to offset expenses. If charges exceed estimated aid, the balance must be paid in full by the payment due date or the student can enroll in a payment plan for the remaining balance.
- Billing notifications will be delivered to the student's Kean email account. Paper bills will no longer be issued. It remains the responsibility of the student to check their Kean email for information or updates.
- Fulfillment of financial obligations must be met by the due date to avoid forfeiture of classes. Any student whose schedule is forfeited and re-registers at a later date will be assessed a non-negotiable non-refundable re-registration fee of \$100.00.

Payment options are as follows:

1. Credit Cards:

Kean University accepts the following credit cards for payment of student

account charges: MasterCard, Visa, Discover, and Diner's Club. A non-refundable convenience fee of 3.0% of the payment amount will be assessed by the credit card processor. You can pay by credit card on line through the KeanWISE link on the Kean website. Kean University reserves the right to change any or all fees should market conditions make this necessary. **Credit card convenience fees are non-refundable.**

2. Cash/Check/Money Order/Debit Cards:

Personal checks may be paid electronically through the KeanWISE link on the Kean website. Business checks, personal checks or money orders may be mailed to the Office of Student Accounting or tendered at the Cashiers Window in the Student Accounting Office along with cash and debit cards during normal business hours. To facilitate processing of payments, students are urged to follow the KeanWISE link on the Kean website to make their payments electronically. Checks and money orders are payable to Kean University. Please indicate the student ID number on the check/money order. If a check is returned by the bank for insufficient funds or any other reason, a non-refundable charge of \$50.00 will be assessed to the student's account. Payment must then be made by cash, money order or certified bank check.

3. TMS Payment Plan:

Kean University offers payment plans administered through Tuition Management Systems (TMS). These plans allow all students (undergraduate, graduate, full-time or part-time) to pay educational costs for the Fall or Spring terms in 5 equal monthly installments. The payment plan is interest free for the amount budgeted and is available for a \$25.00 enrollment fee. There is no payment plan available for the summer semesters.

If you choose to enroll in a payment plan, we encourage you to periodically check your Kean University student account on KeanWISE. You may be current with your payments to TMS, but under-budgeted as a result of a schedule change, room and board change, or financial aid adjustment. If your TMS account is under budgeted, you can contact TMS to adjust the budget for the remaining payments or you can pay the difference directly to Kean University. Please note that if the Kean University's account is not up to date, the student's schedule may be forfeited and a hold will be placed on the account which will prevent registration and release of transcripts. Students may enroll in a TMS payment plan on line at www.afford.com or by phone at 1-800-722-4867.

4. International Wire Transfer:

International students may make wire transfer payments by visiting: <http://kean.flywire.com>.

5. Financial Aid

Financial Aid, including grants, student or parent loans, and scholarships may be used to offset educational expenses. If your

charges exceed your financial aid, you must pay the balance by the due date or enroll in a payment plan to avoid forfeiture of your schedule.

REFUND OF TUITION

A student's status is determined to be either full-time or part-time based on the number of credits for which they are enrolled at the end of the add-drop period. Students are refunded in accordance with the following Tuition and Fees refund schedule (Applicable for the Fall and Spring terms only).

1st week of class:	100% Refund
2nd week of classes:	75% Refund
3rd week of classes:	50% Refund
4th week and thereafter:	0% Refund

A schedule of the refund dates and refund percentages can be found on the Academic Calendar at <http://www.kean.edu/offices/registrar/academic-calendar>

Full-Time Undergraduate Matriculated students will qualify for a refund only in the event they drop down to part-time status (less than 12 credits) during the refund period. Then, the refund will be the appropriate percentage of the difference between the full-time flat rate and the part-time rate for the number of credits remaining. Undergraduate students taking 11 credits or less are considered part-time and are charged tuition and fees per credit. Part-time students qualify for refunds on an individual course basis through the refund period.

Non-attendance does not constitute withdrawal. Students are academically and financially responsible to see that correct withdrawal procedures are completed on time. Refund of tuition and fees will not be made if a student fails to properly withdraw from classes during the refund period.

BOOKS

Books may be purchased from the University Bookstore, and for Kean Ocean, through the Ocean County College Bookstore. Books and materials for the first year may cost an estimated \$1,300. The cost of books and materials is subject to change. Kean University reserves the right to make changes to these costs as applicable.

KEAN ID CARDS

The Kean Photo ID Office is located on the third floor of the Administration Building and can be reached by calling 908-737-3240. To receive your University ID, you must show a valid photo ID and a copy of your current Kean schedule of classes. There is no charge for the first card. There is a \$15.00 fee to replace a lost or damaged card. Payments may be made at the Office of Student Accounting where you will receive your new card. Card uses are as follows: Official University ID, access to Computer Labs, Pool & Gym, Library, Discounted Theater and Event tickets, Meal & Flex Plan card, and Housing Access if applicable. Kean Ocean students can obtain their photo ID in the Kean Ocean Administrative Office, Gateway 103. 732-255-0356.

PARKING

All students must register their vehicles online for a Kean University parking decal. Students must display a valid parking decal in order to park at Kean University parking lots. Decals are issued at no cost.

Students may find additional information by visiting: <http://www.kean.edu/parking>.

Kean Ocean students are not required to have parking decals to park at Kean Ocean in Toms River, NJ, but should register their cars and obtain a decal if they anticipate coming up to the Union campus during their time at Kean Ocean.

Office of Financial Aid

APPLYING FOR FINANCIAL AID

The Free Application for Federal Student Aid (FAFSA) is used to apply for need-based Federal and State financial aid programs. The FAFSA can be filed electronically at www.fafsa.ed.gov, and it must be filed each school year for which assistance is needed. For more information, call 1-800-4FEDAID.

The earlier you file your application, the sooner you will receive notice of your eligibility for financial aid. List Kean University on the FAFSA [the Federal ID number is 002622] in order for the Office of Financial Aid Office to receive the information. Kean University's priority filing deadline is published each year.

FEDERAL PROGRAMS

Federal Pell Grant

The Pell Grant is available to undergraduate students enrolled in their first baccalaureate degree program, demonstrating financial need, and meeting other eligibility requirements. Awards are determined by the Estimated Family Contribution (EFC) and are awarded per academic year depending on student eligibility, enrollment status, and federal appropriations. (The awards range for the 2016-2017 Award Year is \$598 to \$5,815). There is a six-year limitation on Pell Grants, including payments received at other institutions.

Federal Supplemental Educational Opportunity Grant (FSEOG)

FSEOG awards are made to Pell-eligible students with the lowest EFC. Awards are based on available funding.

TEACH Grant

Congress created the Teacher Education Assistance for College and Higher Education (TEACH) Grant Program that provides grants to students who intend to teach in a high-need field at an elementary or secondary school that serves students from low-income families. Contact the Office of Financial Aid for additional eligibility criteria.

Federal Perkins Loan

Perkins Loans are awarded to eligible undergraduate students. Repayment of the loan begins nine months after the date the borrower graduates, withdraws or ceases to be enrolled on a half-time basis. Awarding of loans is based on availability of funds.

Federal Direct Loans

This program provides loans up to \$7,500

for dependent undergraduate students and up to \$12,500 for independent undergraduate students. Interest rates are set by the Federal Government on July 1 of each year. Direct Stafford Loan funds come directly from the Federal Government and can be subsidized and/or unsubsidized. Subsidized loans are awarded on the basis of financial need, and unsubsidized loans are not. Students must be enrolled at least half-time in an eligible program to receive a Direct Stafford Loan.

First time Direct Subsidized Stafford Loan borrowers as of July 1, 2013 are subject to a maximum eligibility period of 150% of their scheduled academic program, regardless of the amount of money borrowed each year. For example: a student enrolled in a four-year Bachelor's degree program is eligible to borrow Subsidized Loans for up to 6 years.

Repayment of the Direct Loan(s) begins six months after the date the borrower graduates, withdraws from school or ceases to be enrolled at least half-time. The program offers various repayment plans to assist the borrower in repaying the loan.

Federal Direct Parent Loan for Undergraduate Students (PLUS)

Through this program, parents with good credit histories may borrow funds to pay the educational expenses of each child who is a dependent undergraduate. The annual limit on the Direct PLUS Loan is equal to the cost of education minus any financial aid the student receives. The interest rate on the Direct PLUS Loan is a fixed interest rate that is set by the Federal Government each year on July 1.

Repayment generally begins within 60 days after the final disbursement for the academic year; however, deferment options exist to postpone repayment. The PLUS Loan program offers three repayment plans to assist the borrower in repaying the loan.

PLEASE NOTE: The student must first complete the Free Application for Federal Student Aid (FAFSA) in order to apply for the PLUS Loan.

PLUS Loans for Graduate Students

Students matriculated in a program leading to a masters or doctoral degree are eligible to borrow under the PLUS Loan Program up to their cost of attendance minus other estimated financial assistance. The terms and conditions applicable to Parent PLUS Loans also apply to Graduate/Professional PLUS Loans. Applicants for Graduate PLUS loans must first complete the Free Application for Federal Student Aid (FAFSA) and have applied for their maximum eligibility under the Federal Direct Unsubsidized Stafford Loan Program.

For more information about the Graduate PLUS, visit www.studentloans.gov.

Federal Work-Study (FWS) Program

The FWSP provides part-time and summer jobs both on campus and in off-campus agencies, for students who demonstrate financial need. Students must be matriculated and complete the FAFSA.

Within the limitations of individual financial need and employment funding, students may work up to 20 hours per week while classes

are in session or up to 30 hours during vacations and holidays. Anyone interested in acquiring a position should complete the FWS Application and follow the instructions listed on the website. Positions are limited.

NEW JERSEY STATE PROGRAMS

The New Jersey Higher Education Student Assistance Authority (HESAA) administers several financial aid programs for New Jersey residents who are enrolled full-time in undergraduate programs. The Free Application for Federal Student Aid (FAFSA) is required for most New Jersey Financial Aid programs in addition to other documents.

NOTE: Students must respond directly to HESAA when requested to submit additional information or documents via the Additional Information Request (AIR).

Tuition Aid Grant (TAG)

TAG is available to full-time matriculated undergraduates who have been New Jersey residents at least 12 consecutive months prior to the beginning of the term. The award amount is determined by the cost of tuition and the applicant's eligibility index as calculated by HESAA. Students who are not taking courses through Kean are not entitled to TAG, even though they may be considered full-time.

New Jersey STARS II

The NJ STARS II program enables successful NJ STARS scholars to transfer to a New Jersey four-year college or university and earn a bachelor's degree with part of their tuition paid by this grant. If a student is not taking all of their courses through the institution they are attending, they are not entitled to receive NJSTARS II funding. For more details, log on to www.hesaa.org or call 1-800-792-8670.

Educational Opportunity Fund (EOF)

Grants from state funds of up to \$1,150 (commuters) or \$1,400 (residential) annually are awarded to students enrolled on a full-time basis in Kean University's EEO/EOF Program.

Governor's Urban Scholarship

This scholarship program is for students who demonstrate a high level of academic achievement and attend high schools in New Jersey's urban and economically-distressed areas. Candidates are nominated for consideration by their high schools. Scholarship awards are up to \$1,000 per year.

UNEMPLOYMENT TUITION WAIVER

Pursuant to N.J.S.A. 18A: 64-13.1 et seq. or 18A: 64A-23.1, the State of New Jersey created a program to allow certain unemployed individuals to attend a public institution of higher education in this state tuition-free on a space-available basis. Additionally, individuals who qualify for this program may have certain fees waived or reduced. To apply for this benefit, individuals must obtain certification from the NJ Department of Labor, Division of Workforce that they qualify for this benefit. Additionally, individuals must verify their past presence in the labor market for at least two years and their unemployed status or receipt of a layoff notice as proof of eligibility or an employability development plan from the Division of Employment Services.

Students are only eligible to register for classes on the LAST day of add/drop on a space-available basis. (No overloads will be accepted).

Students who register for classes prior to that date will forfeit their right to participate in the NJ Tuition Benefit for Unemployed Individuals for that semester. Matriculated students are required to use Federal and State grant funds to cover program costs. Matriculated students are subject to Kean University's Satisfactory Academic Progress Policy for Financial Aid and cannot be in default on a student loan to participate in the program.

Students who qualify for the NJ Tuition Benefit for Unemployed Program will receive a waiver administered by the Office of Financial Aid that will cover tuition and certain fees, minus any Federal or State grants that the student may be eligible to receive. The maximum amount of tuition and fees that Kean University will waive is based on the flat rate charge for undergraduate students. The maximum number of credits enrolled for the semester is 19 for undergraduate students and 15 for graduate students. Students that are eligible for Federal and State grants that exceed their cost for tuition and applicable fees do not qualify for the NJ Tuition Benefit for Unemployed Program.

Individuals who gain employment during the semester the tuition waiver is in effect shall be eligible to continue for that semester as a participant of the program. This does not apply to students who become employed prior to the certification of a waiver.

PROGRAM EXEMPTIONS

- Customized courses that are underwritten by specific employers are exempt from eligibility under the tuition waiver program. Cougar Dollars and all other Kean University promotions are excluded from eligibility under the tuition waiver program.
- Courses offered under the Continuing Education program are exempt from eligibility under the program.
- Students are only eligible to register for classes on the **last day of Add/Drop on a space-available basis. Students cannot drop classes and re-register for the same course on the last day of Add/Drop.**
- Matriculated students are required to use grant aid to cover program costs.
- Matriculating and non-matriculating students must file a Free Application for Federal Student Aid (FAFSA) prior to seeking participation in the program.
- The student must be making satisfactory academic progress towards a degree and cannot be in default on a student loan to participate in the program.
- Students must submit their tuition waiver within five (5) days of their registration.
- Students must complete all credits paid under the tuition waivers in order for the waiver to take effect. If any course is dropped, the waiver will not be valid, and you will owe any tuition and fees balance.

RELATED FINANCIAL AID POLICIES

Kean University is a Division III member institution of the NCAA whose rules prohibit schools from awarding financial aid and/or scholarships based upon athletic ability, leadership, participation or performance.

Verification

The U.S. Department of Education randomly selects applications for Verification, a process which involves "validating" certain FAFSA information by having a student and parent(s) supply an IRS tax return transcript and/or other documents. If you are a first-time student to the University and have been selected for verification, your award(s) will be estimated and will not be final or credited to your student account until the verification process is completed. In some cases, awards will be adjusted if differences are found between the FAFSA information and verification documents.

Continuing students will not receive a financial aid package until all requested documents are submitted and verification has been completed.

Enrollment Status

Grant and/or scholarship award(s) are initially based on full-time enrollment (12 or more credits per semester for undergraduates & 9 for graduates). If your status drops from full-time to part-time status after the start of classes, your award(s) may be adjusted. For example: if you drop from 12 to 9 credit hours during the first week of classes and have TAG, this award will be cancelled. During the same period, if you have a Pell Grant, this award will be prorated.

Other awards may also be subject to reduction.

Therefore, when dropping or adding classes, it is important for the student to check with the Office of Financial Aid to determine whether his/her award(s) will be affected.

Reduction of Financial Aid Due to Withdrawal from the University

Federal regulations require the University to adjust Federal Student Aid awards when a student withdraws from classes before 60 percent of the semester has been completed. When adjustment of funds is necessary, a student may be required to return some or all of the federal funds awarded. The calculation of reduction in Federal funds is done within 30 days of a student's date of official withdrawal from the University.

The Federal funds applicable under this procedure include: the Pell Grant, Direct Loan(s), Perkins Loan, Supplemental Educational Opportunity Grant, TEACH Grant, PLUS and Graduate PLUS Loans.

Repeating Coursework & Aid Adjustments

For purposes of receiving financial aid, students are allowed to retake a previously "passed" course one additional time and still maintain eligibility for funding. The definition of passed, as it pertains to this policy, means any grade higher than an "F".

A student may be eligible for financial aid when repeating failed courses. Note that the normal Financial Aid Satisfactory Academic Progress policy will still apply in these cases.

If a student withdraws before completing the course that he or she is retaking and receiving financial aid for, then that course is not counted as the one allowable retake for that course.

If a student passes a class once and again receives financial aid for retaking it but fails the second time, that failure counts as the paid retake, and the student cannot be paid for taking the class a third time.

THIRD WEEK ATTENDANCE POLICY

The University adopted a policy to monitor the enrollment of students receiving financial aid. Students who are not attending a class (within the first three weeks of class) for which they registered will have their aid reduced and/or cancelled accordingly. Registration credits will not be adjusted to reflect non-attendance.

Students will be notified via Kean email with instructions to follow and a deadline by which to respond, in order to have their aid adjusted to its original status.

SATISFACTORY ACADEMIC PROGRESS FOR FINANCIAL AID

Academic Progress Policy

The Academic Progress for Financial Aid Policy conforms to Federal and State regulations that govern financial aid programs and require all financial aid recipients to: (1) be in good academic standing; and to (2) be making satisfactory academic progress toward a degree in a reasonable amount of time (pace). Academic Progress will be monitored at the end of each Fall, Spring, and Summer term. Students must meet both of the following components for **Satisfactory Academic Progress (SAP)**:

Academic Standing-Qualitative Component

- Undergraduate Students: GPA > 2.0
- Graduate Students: GPA > 3.0

Academic Progression (Pace)-Quantitative Component:

A student must complete at least 67 percent of attempted credits. (AP and transfer credits are included.)

In addition to the qualitative and quantitative components, a student's total attempted credit hours cannot exceed 150% of the credits needed to complete their program of study. For example: if a program requires 124 credits for degree completion, then a student's attempted credits cannot exceed 186 to maintain aid eligibility.

Students with learning or other disabilities should immediately contact the Office of Counseling and Disability Services, so that appropriate accommodations can be made. A student with a documented disability and functional limitations is held to the same academic expectations as other students. If the student is registered with the Office of Counseling and Disability Services and receiving appropriate accommodations, s/he should be able to maintain satisfactory academic progress for financial aid purposes.

Treatment of Specific Courses

Developmental and Supplemental University Instruction courses are used to establish eligi-

bility for financial aid based on full-time or part-time enrollment only. Credits are assigned to developmental and supplemental courses, but these credits do not count toward degree requirements or Satisfactory Academic Progress. For students receiving financial aid, Federal regulations stipulate that the maximum number of attempted credits for developmental instruction is 30. ESL courses do not count against this limit.

When counting developmental credits for SAP, the credits for an unsatisfactory (U) grade, count as attempted but not earned. However, in the Registrar's system, the "U" is neither attempted nor earned.

Incomplete courses will count toward the calculation of credit hours attempted. Once incomplete courses are completed and a passing grade is received, the credits will then be applied to the student's completion rate.

Repeated courses are taken to improve a student's grade point average, and the course counts only once toward degree requirements. Consequently, when a student repeats a course(s), this will count toward time enrolled without a corresponding incremental increase in credit accumulation. (SAP counts repeat credits as attempted but not earned. However, the Registrar does not count repeated grades as attempted or earned.)

Transfer credits are counted as attempted credits (used to determine credits earned in their program of study) and are in the calculation of a student's GPA.

Withdrawal grades (W) are counted as attempted credit(s) but not earned in determining SAP.

PROCEDURES

Students deemed not to be making satisfactory academic progress will be notified via Kean email and may file an appeal with the Office of Financial Aid. A standing University Committee will review the appeal and make a decision, which is final and cannot be reversed.

Each aid recipient's record will be evaluated at the end of each semester to determine that the student is meeting the aforementioned standards. Students that have reached the maximum number of credits without earning a degree, are excluded from further participation in Federal and State financial aid programs.

Federal regulations require that these standards apply to all students, even to first-time aid applicants who have previously enrolled at Kean, or to those who have not been formally placed on probation.

Students deemed not to be making Satisfactory Academic Progress will be notified by Kean email from SAPQUEST and may file an appeal with the Office of Financial Aid. Students receiving a "Warning" status email need not file an appeal as no action is necessary on their part. A standing University Committee will review the appeal and make a final decision. Students will also be notified by Kean email from SAPQUEST as to the outcome of their SAP appeal. Students who have questions about Satisfactory Academic Progress may send an email to sapquest@kean.edu.

RIGHT TO APPEAL

Students have the right to appeal a decision of ineligibility to continue to receive financial assistance. Appeals must be filed within ten days of notification that aid eligibility has been lost. The form that must be used to file your appeal can be found on the Office of Financial Aid webpage. The appeal may NOT be based upon need for the assistance OR lack of knowledge that the assistance was in jeopardy. An appeal would normally be based upon some unusual situation or condition which prevented a the student from passing courses, or which necessitated withdrawing from classes. The situation/condition must have taken place within the semester. Examples of possible situations include *documented serious illness, severe injury, or death of a family member*.

STATUS DEFINITIONS

FINANCIAL AID "WARNING"

If this is the *first documented time* that the student has experienced academic difficulty, s/he will receive a financial aid "warning" notice. *Students will be eligible to receive aid during this semester.* These students will be notified that their SAP will be reviewed at the end of the semester and that further action may be taken if there is not significant improvement during the current semester. **Students are only allowed one "warning" status per academic year.**

FINANCIAL AID "PROBATION"

Students not making significant improvement during their "warning" semester, and/or who fail to maintain SAP standards may appeal and will be allowed only one probationary semester during an academic year. If a student on financial aid probation meets the SAP requirements by term's end, s/he will be eligible for aid in the subsequent semester. Students placed on probation shall be considered to be making satisfactory academic progress for the purposes of financial aid for that semester.

APPEAL "APPROVAL"

Appeals can only be approved if the SAP Committee determines that the student will be able to meet the University's satisfactory academic progress after the next payment period

APPEAL (APPROVED) WITH "ACADEMIC PLAN" CONDITIONS

Appeals can also be approved if the SAP Committee determines that the student has agreed to follow an **academic plan** that, if followed, will ensure that s/he can meet the University's satisfactory academic progress guidelines.

Students whose appeals are approved with an academic plan will receive aid on a conditional basis for one semester. The conditions will be outlined in a notice sent to the student. Those who fail to meet the conditions outlined in their individual academic plan(s) during their conditional semester will not be able to submit a subsequent appeal and will be ineligible for subsequent federal and state aid.

APPEAL "DENIED"

The "denied" decision is usually rendered when the SAP Committee has deemed that it is "mathematically impossible" for the student to meet the quantitative/qualitative component(s) in a reasonable amount of time, the student failed to follow their "academic plan", or the student's statement is undocumented. The student is ineligible to receive federal and state funding in subsequent semesters and must use alternative means to pay for their educational expenses.

REGAINING ELIGIBILITY

A student who has lost eligibility to participate in State and Federal student aid programs for reasons of academic progress, can regain that eligibility by enrolling at Kean using alternative means of payment and demonstrating that s/he is capable of completing a semester without any failures, incompletes or withdrawals, and showing the ability to complete degree requirements in a timely fashion. **The mere passage of time will not ordinarily restore eligibility to a student who has lost eligibility for failure to make satisfactory academic progress.**

Students who have been academically dismissed from the university but who are subsequently given permission to re-enroll are not automatically eligible to continue to participate in Federal and State aid programs. Admissions/ Academic decisions are independent of funding decisions.

Students who have questions about satisfactory academic progress may send an email to sapquest@kean.edu.

Help is available every step of the way in the aid process. Please contact the Office of Financial Aid with any questions by calling 908-737-3190, e-mailing finaid@kean.edu, or visiting the website: <http://www.kean.edu/offices/financial-aid>.

Kean Ocean students can access services and see representatives from the Office of Financial Aid in the Kean Ocean Administrative Office, Gateway 103, or by calling 732-255-0356.

Office of Scholarship Services

Kean University offers a variety of scholarships that recognize academic achievement and assist qualified undergraduate and graduate students meet the financial requirements of attending college. Additionally, students are strongly encouraged to complete the Free Application for Federal Student Aid (FAFSA) in order to improve their ability to receive needed funding.

Note: Kean University is an NCAA Division III member institution. **NCAA Division III rules prohibit the awarding of financial aid and/or scholarships based upon athletics criteria.** Therefore, the University is prohibited from awarding financial aid and/or scholarships based upon athletic ability, leadership, participation or performance.

General scholarship information is available online at: www.kean.edu/ku/scholarships and all scholarship inquiries may be addressed to the Office of Scholarship Services, located in

Townsend Hall, Room 122. You may contact us via email at: kuscholar@kean.edu, visit us in person or call our information line at 908 737-3480.

FRESHMAN MERIT SCHOLARSHIPS

Academic Merit, Presidential, Trustee, Kean, William Livingston

These scholarships are awarded based on the University's review of the student's application for freshman admission. No separate application is needed, but only recent high-school graduates admitted as full-time freshmen may be eligible to receive one of the above listed awards.

Freshman Merit Scholarships are renewable for up to four years of undergraduate study with a cumulative 3.0 GPA maintained through continuous full-time enrollment.

DISTINGUISHED FRESHMAN SCHOLARSHIPS

New Jersey Center for Science, Technology and Mathematics (NJCSTM) Scholarship

These full-tuition and partial-tuition scholarships are awarded to qualified incoming freshmen who are interested in pursuing BS/MS or BS/MA degrees in the NJCSTM program. All applicants must be interviewed by NJCSTM for consideration of this award. Scholarships are generally available for the first two years of enrollment in the program. Students following the teacher track may be eligible for additional funding from this scholarship, provided they agree to teach in New Jersey for three years upon graduation.

Michael Graves College/College of Visual and Performing Arts Scholarship

This full-tuition scholarship is awarded to incoming freshmen interested in pursuing an undergraduate degree in fine arts, design, music, or theatre. Interested students are required to submit a portfolio, or audition with the selected major program. Awards may be renewed for up to four years of undergraduate study if the recipient maintains a minimum cumulative 3.0 GPA, continuous full-time enrollment, and receives departmental recommendation(s).

KEAN UNIVERSITY FOUNDATION SCHOLARSHIPS

Each academic year the Kean University Foundation provides scholarship support to hundreds of students through annual and endowed scholarship funds, which are established by friends, alumni and members of the Kean University community. The number of scholarships and award amounts vary each year based upon fund availability.

Foundation Scholarships are awarded through committee selection to the applicant who best meets established criteria for an award. All scholarships are based primarily upon academic achievement, with financial need, community service, references and logistics as listed in individual scholarship criteria. For a complete listing of scholarships, please visit: www.kean.edu/ku/scholarships.

All interested students must file the online Kean University Foundation Scholarship Application for consideration of any Foundation award. This application is available on the Kean University website annually beginning December 1 and must be submitted no later than the March 1 deadline. Students selected for awards are notified by the Office of Scholarship Services in the months prior to the start of the fall term. Awards are applied directly to student accounts for the fall and spring semesters.

EXTERNAL SCHOLARSHIPS

Any student who receives funding from philanthropic organizations outside of Kean University must provide documentation to the Office of Scholarship Services in order to process awards into the student's account. Official documentation of award includes official award checks, letters of award notice, promissory letters, enrollment verification and/or billing requests. All documentation submitted to the Office of Scholarship Services must include the student's name, identification number, and timing of the award (semester).

This information may be mailed or hand-delivered to:

Kean University Scholarship Services
Townsend Hall, Room 122
1000 Morris Avenue
Union, NJ 07083

Student Life and Services

Student Life and Services offers students a seamless blend between living and learning at Kean. Students can draw on several resources on campus. Inquiry, dialogue and diversity are encouraged. Opportunities are extensive for participation in clubs and publications, athletic, social and cultural activities, student government and University governance.

Faculty, administrators and students work together on many aspects of college life. They operate under a bill of rights and responsibilities. Supportive student services within the Office of the Vice President for Student Affairs are available for personal counseling and guidance, housing, health care, student life and special student services. The student handbook, published every year, provides a guide to all activities, services and personnel that contribute to the quality of student life at Kean.

STUDENT AFFAIRS

The Division of Student Affairs includes the offices of: Health Services; Counseling and Disability Services; Residential Student Services; Office of Community Standards and Student Conduct; Miron Student Center; Office of Student Government; and the Center for Leadership and Service. Programs of special interest include: the annual Kean Day Program (designed to introduce students to one another and to a wide range of social and cultural organizations); the Student Leadership Institute coordinated by the Center for Leadership and Service; and the

individualized needs assessments provided by the Counseling Center-Disability Services for entering students with physical disabilities.

Student Affairs is located in Kean Hall, Room 124, and can be reached at (908) 737-7080.

MIRON STUDENT CENTER

As host of a majority of the cultural, educational and social programs at the university, the Miron Student Center is the focal point of the campus. The Center offers a variety of resources to support Kean's educational mission and fosters a student-centered environment that promotes academic success and personal development.

Miron Student Center is home to many attractions, including the Little Theater, the Market Place convenience store, Game Room, Computer Lab, Media Center, Involvement Center, Miron Student Center Operations & Event Management, the Center for Leadership and Service, the Office of Community Standards and Student Conduct and the Office of Student Governments. The Miron Student Center also features numerous conference rooms for students, faculty, staff and outside organizations.

The Miron Student Center offers many dining options including the Miron Student Center Food Court and Cougar's Den.

HEALTH SERVICES

DOWN'S HALL ROOM 126

HEALTH SERVICES

Kean University Health Services is staffed by board certified nurse practitioners and physicians that are available to treat any student of the university at no additional charge. Health Services can manage a wide range of health issues from the common cold, women's health concerns, testing for HIV and sexually transmitted infections, injuries and any other health related concern you may have. Health Services has the ability to provide prescriptions, medications, or treatment for most medical problems. Health Services is not here to replace your primary care practitioner but to supplement them while you are at school.

Our hours are Monday – Friday, 9 a.m. to 5 p.m. and appointments can be made by visiting our Student Health Portal at www.kean.studenthealthportal.com, calling (908) 737-4880, or by stopping by our office in Downs Hall, Room 126.

Kean Ocean students can obtain health services locally by obtaining a referral from Health Services at Kean Union, by calling 908-737-4880 Monday- Friday 9am-5pm. Services are provided by: The Doctor's Office-Brick, 686 Route 70, Brick, NJ 08723, Tel: (732) 262-8200, and students must bring their Kean IDs when they go to their appointments.

Immunization Requirements

Registration Information

All students cannot register for their second semester or receive grades until immunization requirements are submitted to Health Services. Please submit records to Downs Hall – Rm 126, email them to hsrecords@kean.edu, or mail

them to Kean University Health Services, PO Box 411, Union, NJ 07083 (submissions by fax are not accepted). Submit a copy so that you can retain your original record. Please call (908) 737-4880 for further questions.

Immunization Deadline: September 30 (February 28 if starting in the spring).

State Immunization Requirements

- All students: Proof of two measles vaccines, one mumps vaccine, and one rubella vaccine (MMR), all administered after your first birthday and after 12/31/67. The vaccines must have been administered at least one month apart.
- All new students taking 12 or more credits: Proof of the three-dose hepatitis B series (or two-dose adult series as notated by the physician).
- All Housing students: Proof of the meningitis vaccination before check-in. If records are unavailable, you can take a laboratory test to prove immunity (Antibodies IgG for MMR; Surface Antibodies for hepatitis B). If non-immune, the state requires the appropriate vaccines. A copy of the laboratory report is required.
- FAQ's and forms: <http://www.kean.edu/offices/health-services/immunizations>

Follow us for updated information regarding our services and events.

Facebook: Kean healthSvs

Instagram: @kuhealthservices

Twitter: @keanhealth

COUNSELING CENTER

The Kean University Counseling Center assists students by providing psychological counseling psychiatric medication monitoring and educational programming. The center provides psychotherapeutic services and programs that address mental health issues that may adversely impact academic performance, including: depression, anxiety, personal family concerns, childhood and recent trauma, issues of sexual/gender identity, eating disorders, issues with self-esteem, and peer/relational difficulties.

Student concerns are addressed through individualized treatment plans that may include individual and/or group therapy. In addition, consultation with a psychiatrist and medication management is available when appropriate.

A Licensed Clinical Alcohol and Drug Counselor is available for evaluation of alcohol and substance abuse patterns, and treatment or referral is provided. Additionally programs are available to meet the needs of Kean students who have been referred by the Office of Residential Student Services or the Office of Community Standards and Student Conduct for violation of university policy. These programs are designed to provide specialized treatment tailored to the needs of each student and may involve individual and or group treatment.

The center is staffed by a dedicated and diverse group of counselors with significant expertise in the mental health field. Services for Spanish-speaking students are available. Additionally, we offer clients the option of meet-

ing with our consulting psychiatrist when further evaluation and/or medication are advised.

The center is open Monday through Friday, from 9 a.m. to 5 p.m. An appointment to see a counselor can be made by either calling (908) 737-4850 or by stopping in at our office located in Downs Hall, room 127.

For Kean Ocean students, services can be accessed through Ocean County College's Career, Employment and Counseling Services: ICCT Building #12, Room C108. 732-255-0400 x 2945. <http://www.ocean.edu/content/public/study-on-campus/campus-life/student-services/career-employment-counseling-services.html>.

DISABILITY SERVICES

The Office of Disability Services is committed to the full inclusion and equal opportunity for people with disabilities. The University adheres to the requirements of the Americans with Disabilities Act, and Section 504 of the Rehabilitation Act. Every effort is made to provide students with the opportunity to participate in all aspects of college life.

The Office of Disability Services provides assistance, accommodations and resources to all students with physical, medical, learning and or psychological disabilities. The Office of Disability Services is located in Downs Hall, room 122, and can be reached via phone at (908) 737-4910 or email at disabilityservices@kean.edu.

Students interested in educational and or psychological evaluations may contact the Psychological Services Training Clinic located on East Campus at (908) 737-5890.

OFFICE OF RESIDENTIAL STUDENT SERVICES

The Office of Residential Student Services, within the Division of Student Affairs is responsible for on-campus housing at Kean University.

Residence halls are communities where students can explore new ideas, meet different people, engage in responsible behavior and experience freedom. Residence hall life provides a multicultural opportunity for students and an opportunity for students to gain a variety of personal learning experiences. It help students meet their needs and potential through responsible programming and effective use of available resources. As a result, students become active members of a unique community engaged in personal and academic growth.

The residence life program accommodates 2,000 full-time undergraduate students within eight residence halls. The staff promotes an environment conducive to living and learning.

The Office of Residential Student Services program offers services such as shuttle van service, a 24 hour computer lab, wireless Internet, 24 hour security and recreational social space.

Students interested in participating in this unique community are encouraged to contact the Office of Residential Student Services at (908) 737-6800.

OFFICE OF COMMUNITY STANDARDS AND STUDENT CONDUCT

The Office of Community Standards and Student Conduct is committed to providing a campus environment where students can grow intellectually and develop as a person. Student members of the community are expected to abide by certain standards of conduct that form the basis of the Student Code of Conduct (Code) and ensure that their guests and visitors do likewise. These standards are embodied within a set of core values that include integrity, fairness, respect, community, and responsibility. The Student Code of Conduct can be accessed on-line at <http://www.kean.edu/policies/Code-of-Conduct> and printed copies of the Code are available in the Office of the Vice President for Student Affairs (Kean Hall, Room 124) and the Office of Community Standards and Student Conduct (Miron Student Center, Room 317).

ORGANIZATIONS

New groups have formed over the years as students have sought companions in the pursuit of special interests. There are clubs, which cater to politics, religion, media services, the human concern, sports, social events, recreation, and the cultural arts.

There are locally and nationally affiliated fraternities and sororities which serve a social function, engage in charitable work and are concerned with scholarship, character building and service to the University. Policies and procedures regarding club information and recognition can be obtained from the Center for Leadership and Service.

OFFICE OF STUDENT GOVERNMENT

The Office of Student Government develops student leaders through a wide array of opportunities for personal and professional development.

Comprised of both Student Organization, the full-time undergraduate governing body, and Graduate and Part-Time Student Council, these student government boards represent the students of Kean University through encouraging student feedback and acting as the voice for student needs. These Student Government Boards build a community by working with students, faculty, and administration to enhance the quality of campus life. In addition, the Office of Student Government houses a Programming Board, 24 Funded Groups, 3 of which are Kean Ocean groups, and provides additional funding opportunities to non-funded groups on campus. Through working with and developing these student leaders, we are able to provide quality services and programs that contribute to social, academic, cultural and professional growth of the student body. By providing diverse student led programming, we demonstrate our commitment to retaining students, enriching student life and creating meaningful out of the classroom learning experiences. The Commuter Resource Center (CRC) is also managed by the Office of Student Government. CRC pro-

vides various programs and workshops to Engage and Involve the commuter student population in campus life and to provide pertinent resources and information relevant to commuter students. The Commuter Resource Center is located in J 130 and is equipped with computer workstations, a Xerox, and other services for commuters. Adjacent to J 130 is a Quiet Study Area and an Interactive Multi-function Room.

For more information about the Office of Student Government, located in the Miron Student Center room 304, 309 and 313, call 908-737-5190 or 908-737-5250, email stuorg@kean.edu or gpsc@kean.edu, or visit online at <http://www.kean.edu/offices/student-government>. The Kean Ocean Office of Student Government is located in Gateway 213, 732-255-0400, x2199. This branch serves and provides programs and services for the Kean Ocean student population.

Student Organization Mission Statement

Student Organization of Kean University strives to enhance the intellectual, cultural, and personal growth of those it represents, by acting as the voice of the full-time, undergraduate, student body. The organization is dedicated to maintaining an environment where the ideals of diversity and free expression can flourish through scholarly opinion, debate, and education.

Students are encouraged to voice all viewpoints through active feedback and participation in the governance of Kean University; establishing a lasting dialogue that represents each scholar, in turn, unifying the University community. The organization will work with the administration to ensure optimum student rights; providing all individuals with the opportunity to succeed, in the classroom and in their personal endeavors.

Graduate & Part-Time Student Council

Our mission is the service of our constituency, the Graduate and Part-Time Students of Kean University. We will foster the development of a stimulating, interactive environment. Our goal is to enhance the academic, social and cultural experiences of our community, by encouraging the true meaning of diversity on our campuses.

Our representation of our members will employ the assets of Student Government, assisting our members to achieve the finest academic standards and promoting the principles of academic excellence. We will strive to maintain an atmosphere of unencumbered scholarly opinion, debate and learning, while presenting programs, both on and off the campus for your interest and edification at affordable prices.

We will represent the concerns and reservations of our members to the administration, its officers and staff seeking a favorable resolution of those matters as we strive to promote leadership and the development of student leaders. We do this by recognizing that today's student leaders are tomorrow's world leaders. We invite you to join our continuing effort.

CENTER FOR LEADERSHIP AND SERVICE

The Center provides a comprehensive series of specialized leadership education opportunities of specialized leadership education opportunities and programs that will assist all Kean students in the development of leadership skills through service learning, community service and organizational involvement.

The following services are administered by the Center: the Kean Leadership Institute, community and volunteer services, Greek life, the co-curricular transcript program, student group development, the Jumpstart program, and *The Cougar's Byte*, the student newsletter.

The Center has direct responsibility for the development and recognition of student groups and advises student groups about university procedures and policies. Information about a particular group or about starting a new group can be obtained through the Center for Leadership and Service.

Students are encouraged to become involved in some aspect of university life by joining a club, participating in co-curricular activities, volunteering or employment on campus.

For more information about the Center for Leadership and Service, located in the Miron Student Center room 219, please call (908) 737-5170, email cls@kean.edu or visit them online <http://www.kean.edu/offices/cls>.

CULTURAL PROGRAMS

Many diverse and exciting cultural programs are offered throughout the year at Kean University. Numerous concerts, lectures, plays, films, dance programs and bus trips are scheduled to enhance a student's educational experience.

Various programming committees comprising students, staff and faculty sponsor these events. A performing arts brochure is printed each year and highlights events in Kean's theatres. In the past, performances have included National Theatre of the Deaf, Smokey Joe's Café, Alvin Ailey Dance Theatre, Maya Angelou, Peking Acrobats, Vienna Boys Choir, Tito Puente and Wynton Marsalis.

Many types of concerts are presented throughout the year in Kean's four theatres. A wide variety of musical forms - salsa, reggae, hip-hop, rock, alternative, and the classics - can be enjoyed by all.

The Kean Dance Ensemble and the Kean Theatre Series present outstanding student drama and dance productions each semester. Past productions include *Spring Awakening*, *The Odyssey*, *A Midsummer Night's Dream*, *The 25th Annual Putnam County Spelling Bee*, *Sweeney Todd*, *Pillowman*, *Our Lady of 121st Street*, *Hairspray*, *The Other Shore*, *Peter Pan*, *Macbeth* and *Doubt*.

The Music Conservatory also offers many concerts and recitals throughout the year. Students perform in the Concert Choir, Chorale, Concert Band, Jazz Ensemble, Percussion Ensemble, Guitar Ensemble, Men's Chorus, and Women's Chorus. Renowned

artists are featured in the Conservatory of Music's Artist Series, Ars Vitalis, and ARCO ensemble Classical Concert Series.

The Kean Children's Hour includes an assortment of entertaining shows for the family.

Kean's professional theatre company in residence, Premiere Stages, celebrates the work of emerging artists and offers summer and fall programming of world premieres (new plays) and NJ premieres. Premiere Stages also provides frequent master classes and lectures through their Premiere Artist Program. For more information visit www.kean.edu/premierestages/

STUDENT PUBLICATIONS

There are a number of student publications running the gamut of form and opinion.

MEMORABILIA

The yearbook, which highlights seniors. Its office is located in the Miron Student Center, Room 309.

THE TOWER

A laboratory newspaper, published in hard copy and at www.keantower.com by Kean University's journalism program in the School of Communication, Media & Journalism. The Tower office is located in CAS 413 or visit <http://kutower.com>.

CREATION SPACE

A literary review which showcases the artistic abilities of students through poetry, drama, short stories and artwork. For more information, contact the the School of English Studies in CAS 301.

THE COUGAR'S BYTE

The Cougar's Byte is a weekly Center for Leadership and Service Publication for the Kean University Student Community. Its office is located in the Miron Student Center, room 215.

STUDENT RADIO STATION

WKNJ (90.3 FM) is a non-profit, FCC-licensed radio station that broadcasts 24 hours, 7 days a week. Students in the School of Communication, Media & Journalism produce a variety of music, topic and discussion formats. The radio station is located in CAS 401. Students who have taken Communication classes are welcome to work at the station.

Academic Standards and Procedures

Within this catalog are academic programs, standards and procedures that apply to students admitted to Kean University for the 2016 - 2017 academic year. The University will provide the student with the programs stated herein. However, the provisions of this publication are not to be regarded as an irrevocable contract between the student and Kean. Degree and related academic requirements are subject to change. When such alteration takes place, it is not made retroactive unless it benefits the student and can be accommodated within the span of time normally needed for completion of degree requirements.

COURSE OF STUDY

The course of study at Kean is designed to bring to students the essential values of a liberal arts education - a breadth of understanding, a depth of knowledge in a chosen field of study and a large measure of freedom in determining what additional areas they will study.

The major program, the component of depth in the degree, enables students to acquire mastery in a subject discipline. This component is acquired through a number of professional and applied disciplines.

The General Education requirements, the breadth component of the curriculum, provides students with experiences in the arts and humanities, social sciences, mathematics and natural sciences, which will acquaint them with diversity of thought, provide disciplined ways of learning and problem solving, and suggest the interdependent, interdisciplinary and complex nature of the real world. For additional details and program requirements, please see the School of General Studies section in the College of Humanities and Social Sciences.

Generally speaking, free electives, the amount of which varies by program up to a maximum of one-third of an academic program, are intended to provide opportunity to study courses that promise to add to educational development.

BACCALAUREATE DEGREE REQUIREMENTS

The baccalaureate degree is conferred by the authority of the Kean University Board of Trustees.

To qualify, a student must be fully enrolled in a major program at Kean, and complete that program with a minimum of 120 semester hours of credit. A minimum of 32 degree credits, including one-half of the major requirements, must be earned at Kean. A maximum of 66 credits will be transferred at the lower division (1000/2000 level taken at four-year institutions combined with all credits taken at two-year/county colleges/community colleges). All credits transferred between 66 and the maximum of 92 total credits must be at the upper division (3000/4000 or junior/senior level) taken at a four-year institution. For more information see *Policies on Transfer Credit*.

All major courses in any program require a minimum grade of "C" to be counted toward the fulfillment of that requirement (some programs have higher grade requirements). Courses initially completed at a grade of "D" and repeated according to the policy do not earn duplicate credit toward overall degree requirements. General Education courses (other than ENG 1030) and free electives unless specifically designated by the major earn credit towards the degree with a "D" grade or better. ENG 1030 requires a grade of "C" or better. Some major programs do require grades higher than "C", and retaking the course does not earn duplicate credit toward the degree.

No course can fulfill both a major and a General Education requirement. In order to graduate, all students must successfully com-

plete either GE 1000 (Transition to Kean) or GE 3000 (Transfer Transitions) at Kean University.

Except in the case of specifically approved academic programs, no more than 40 semester hours in a major field will count toward the total credits for graduation.

Degree requirements must be completed within 10 years from the date of matriculation. Extension of time may be considered upon written request by the student to the appropriate college dean.

A 2.0 cumulative grade point average (GPA) is required for graduation, although some majors require a higher GPA. For students in teacher preparation majors, a 3.00 cumulative GPA is required for certification, effective beginning catalog year 2012-2013.

Kean does not authorize granting two baccalaureate degrees simultaneously. Students may pursue a double major which will appear on their academic transcript, but only one baccalaureate degree will be issued. After graduation, students have the option of pursuing a second baccalaureate degree.

Candidates for New Jersey teacher certification must pass the Professional Assessment for Beginning Teachers (PRAXIS II) in the appropriate field.

The following outlines the degree completion requirements to participate in the graduation ceremony. Only students who have graduated in January or will graduate by May or August in the year of the May ceremony will be eligible to pick up a cap and gown and walk in this ceremony.

January - all coursework must be completed by the end of the current fall semester.

May - all coursework must be completed by the end of the current spring semester.

August - all coursework must be completed by the end of the current second summer session.

All requirements including outstanding transfer credits, waivers, CLEP, life experience credits, incomplete grades, change of grades and grade recalculations must be received by the Registrar's Office within two weeks of the graduation dates, for January, May and August. Failure to submit all requirements by the end of this two-week time period may result in postponing graduation to the next graduation date.

GENERAL EDUCATION REQUIREMENTS

All undergraduate degree programs at Kean have a General Education (GE) component. Through GE coursework, students in all majors have common educational experiences and opportunities to acquire and develop the values, skills and knowledge associated with a broad liberal arts and sciences education to support students in their pursuit of an academic major and career.

The General Education Program features: (1) a vertical structure intended to bring students progressively to higher levels of proficiency, competence, and understanding; (2) connections within and between disciplines and opportunities for students to pursue interests in interdisciplinary areas; (3) courses that pro-

vide on-going values and skills development along with content; and (4) courses that provide multicultural and global perspectives.

Through the General Education Program students will learn to integrate knowledge and methods to address historical and contemporary questions. The General Education Program will develop habits of mind including proficiency in communication in both oral and written forms, quantitative literacy, critical thinking, and information and technology literacies.

The General Education Program will instill students with a distinct set of values. These values include ethical judgment and integrity, active citizenship and diversity.

Appropriate in rigor and content, the General Education Program at Kean will build a diverse community of learners consistent with the University's mission and the following student learning outcomes of Kean University:

- 1) Think critically, creatively, and globally (KU1);
- 2) Adapt to changing social, economic, and technological environments (KU2);
- 3) Serve as active contributing members of their communities (KU3); and
- 4) Advance their knowledge in the traditional disciplines, general education and enhance their skills in professional areas (KU4).

And the following General Education student learning outcomes (aligned with Kean University student learning outcomes)

Student Learning Outcomes

Content (Liberal Arts)

- 1) Transdisciplinarity (KU4)

The ability to integrate knowledge and methods from different fields to address historical or contemporary questions.

Building Habits of Mind

- 2) Critical Thinking (KU1)

The ability to utilize reflective analysis to draw informed conclusions.

- 3) Quantitative Literacy (KU1)

The ability to utilize numerical data accurately and effectively to address real world problems.

- 4) Communication Literacies (KU1)

The ability to speak and write effectively to convey an evidence-based argument.

- 5) Information and Technology Literacies (KU2)

The ability to utilize information and communications technology critically and effectively in a rapidly changing world.

Values

- 6) Active Citizenship (KU3)

A commitment to lifelong civic engagement at a local, national and/or global level.

- 7) Ethical Judgment and Integrity (KU3)

The ability to draw responsible conclusions from ethical questions to guide personal conduct.

- 8) Diversity (KU3)

A commitment to promote inclusivity in a diverse world.

GENERAL EDUCATION PROGRAM STRUCTURE

Kean's GE Program has three major components:

- The Foundations Requirements (13 credits)
- The Disciplinary/Interdisciplinary Distribution Requirements (typically 30-32 credits for B.A. degree programs and 19 credits for B.S., B.M., B.F.A., and B.I.D. degrees) and
- The Capstone (3 credits)

GE FOUNDATIONS COURSE REQUIREMENTS

All students must complete the following Foundations courses:

- Transition to Kean/or Transfer Transitions
- College Composition (offered in different formats)
- A college-level math course (as specified by the major)
- Speech Communication as Critical Citizenship
- Research and Technology (offered in college-based versions)

GE DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION COURSE REQUIREMENTS

Students are required to take a specified number of credits (typically 30-32 credits for B.A. degrees and 19 credits for B.S., B.M., B.F.A., and B.I.D. degrees) in the areas described in more detail below, i.e., in the Humanities (GEHU), Social Sciences (GESS), Science & Mathematics (GESM), and (for B.A. degrees only) Health/Physical Education (GEHPE). Please note: except for the one-credit P. E. courses and the four-credit science courses, all other courses in this area must be three credits. For additional information see the School of General Studies section in the College of Humanities and Social Sciences.

Only approved courses will fulfill GE requirements. These are listed in the School of General Studies section. Many majors will indicate (on the major guidesheet and program evaluation) specific Disciplinary/Interdisciplinary distribution courses their students must take.

For B.A. Degree Programs

- To fulfill their Humanities requirements, students will complete three courses, One of these courses must be ENG 2403 (World Literature). The remaining two courses must come from two of the following five areas: Visual Arts/Fine Arts/Art History, Philosophy/Religion, Foreign Languages, Performing Arts/Music/Theatre, or Interdisciplinary (only specifically approved ID courses fulfill this requirement).
- To fulfill their Social Sciences requirements, students will complete three courses, one of which must be HIST 1062. The remaining two approved courses must be selected from the following five areas: Psychology, Economics/Geography, Political Science,

Sociology/Anthropology, or Interdisciplinary (only specifically approved ID courses fulfill this requirement).

- To fulfill their Science & Mathematics requirements, students will complete three approved courses. One must be a mathematics or computer science class. The other two must come from the following four areas: Biology, Chemistry/Physics, Astronomy/Earth Science/Geology/Meteorology, or Interdisciplinary (only specifically approved ID courses fulfill this requirement). One of these two courses must be a laboratory-based science course.
- To fulfill their Health/Physical Education requirements, students will complete two credits of approved Physical Education courses or the three-credit approved Health course, ID 1225 or the three-credit approved Recreation course, ID 1010.

For B.S., B.M., B.F.A., and B.I.D. Degrees

- To fulfill their Humanities requirements, students will complete two courses, one of which must be ENG 2403 (World Literature). The remaining course must be an approved course from one of the following five areas: Visual Arts/Fine Arts/Art History, Philosophy/Religion, Foreign Languages, Performing Arts/Music/Theatre, or Interdisciplinary (only specifically approved ID courses fulfill this requirement).
- To fulfill their Social Sciences requirements, students will complete two courses, one of which must be HIST 1062 (Worlds of History: Traditions and Encounters). The remaining course must be approved courses from one of the following five areas: Psychology, Economics/Geography, Political Science, Sociology/Anthropology, or Interdisciplinary.
- To fulfill their Science & Mathematics requirements, students will complete seven credits, taking one approved mathematics or computer science course and one approved laboratory-based science course.

GE CAPSTONE REQUIREMENT

A three-credit GE Capstone experience (as determined by each major academic program) is required of all students. In the Capstone, students will complete projects using the skills developed through the GE Program to demonstrate mastery of their major content. Successful completion of the project in the Capstone course will demonstrate that students are active learners who have accumulated knowledge of the liberal arts and sciences, have reached an advanced level of skill proficiencies, can collaborate effectively, and can apply knowledge to the achievement of tasks and the solution of problems.

ADDITIONAL REQUIRED COURSES

A major program may include required coursework in areas outside (but related to) the major. Not all programs include additional

requirements; for those that do, the courses are generally introductory-level courses in areas supporting the major. Supporting courses require a minimum grade of D, however some majors may have higher grade requirements, as noted on the guidesheet and program evaluation.

MAJOR REQUIREMENTS

Major programs at Kean University are offered in the arts and sciences and in a variety of professional areas, including education, allied health professions, and the administrative sciences. These programs are designed to prepare students for advanced study in a particular area or for an entry-level position in a profession or career. Major programs in the liberal arts and sciences normally require between 30 to 40 credits of coursework. Programs in education and professional areas (where accrediting bodies mandate specific general requirements) may require more than 40 credits in the major. A minimum of one-half of the major requirements must be completed at Kean.

The typical major program includes a core of required courses structured to provide a foundation in the fundamental concepts, methodology, and subject matter of the discipline. The framework of most major programs also affords the opportunity to build upon this foundation through the selection of a set of departmental elective courses. Major electives may be chosen to provide increased breadth across the discipline or to form a concentration in one particular sub-area called an option or concentration.

WRITING-EMPHASIS REQUIREMENT

In order to graduate, all students are required to complete one "Writing Emphasis" course within their major. Such courses are designed to provide the students with an opportunity to explore writing as it is done in their field, whether it's education, science, technology, one of the humanities, or business. Currently, Writing Emphasis courses are taken in the junior or senior year, after the student's initial composition courses are completed. Students should consult their major program advisor for specific information about the Writing Emphasis course requirement.

GE 1000/3000 REQUIREMENT

All undergraduate students must satisfy this University requirement for graduation by successfully completing one of the following courses at Kean University: GE 1000 Transition to Kean (all freshmen and transfers entering with 0-29 credits) or GE 3000 Transfer Transitions (transfers entering with 30 credits or more).

FREE ELECTIVES

After the student has completed his/her General Education, additional required courses and major requirements, the remaining required program credits are completed with free electives. Free electives may be used to

develop a second major, a minor or collateral program or to acquire certification. Two restrictions apply to the use of free electives: (1) at least 50 percent of free electives must be in coursework on the 3000-4000 level; and (2) except in the case of certain specifically approved academic programs, no more than 40 semester hours in a major field will count toward the total credits for graduation. For example, if completion of a major program of study constitutes 30 credits, then a maximum of 10 additional credits may be taken in the major field as free electives. If however, the major requires 40 credits, NO additional major courses may be taken as free electives.

SELECTION OF A MAJOR (ACADEMIC PROGRAM)/ DECLARATION OF MAJOR/ CHANGE OF MAJOR

Students who are admitted or changed to Undecided/ Undeclared Majors must select and be admitted to a major program no later than the spring of the sophomore year. Students cannot graduate in an undecided or general studies program. Should the student want to pursue an additional second major, the choice must be made early, because fulfilling requirements for two majors will necessitate careful planning of the entire curriculum. For students completing two (2) majors, only one (1) baccalaureate degree will be awarded, although both majors will appear on the academic transcript. Many professional programs have extensive requirements and prerequisite coursework and should be selected as early as possible. Failure to do so will delay your graduation.

All students (freshmen, transfer, readmit and second degree) are admitted as intended majors. Therefore, a student must formally apply and be accepted into a first major (major of record) through the Department or School that offers the major. Declaration requirements and procedures vary, so consult the Department or School that offers the major for declaration requirements and instructions. This procedure applies to a second major as well. After meeting all requirements, the executive director/department chairperson or designee will sign a *Major/Minor Status Change Form* (see below) indicating the change in status to declared major.

To change from one major to another, the student must apply for acceptance to the new major through the Department or School that offers it. Whenever a major is changed, the student is responsible for completing all requirements of the new program including specified courses that are outside the major discipline but which are related to or required by the major. To complete the process, the student must obtain a *Major/Minor Status Change Form*, which needs to be completed and signed by the executive director/ department chairperson or designee. The *Major/Minor Status Change Form* can be picked up and returned at the One-Stop Service Center located in the Office of the Registrar (Administration Building 1st floor).

For Kean Ocean students, the form can be picked up and returned in the Kean Ocean Administrative Office, Gateway 103.

REQUIREMENTS FOR ACADEMIC MINORS/COLLATERALS

1. A minor shall consist of a minimum of 18 semester hours. A minor may be in a single academic discipline or (effective Fall 2014) may be interdisciplinary in nature. If a minor is in a single academic discipline, students majoring in that academic discipline may not minor in that same discipline. A collateral consists of a minimum of 18 semester hours and, like an interdisciplinary minor, includes courses from more than one academic discipline. Effective Fall 2014, the term "collateral" will no longer be used for new programs.
2. Content is to be prescribed by an academic program and may or may not include electives.
3. A minimum of six semester hours must be from upper division, 3000-4000 level courses.
4. No more than one-half of the credits for that minor/collateral may be transferred from another institution.
5. Departments or Schools will provide guide sheets for minor programs to students.
6. Effective Fall 2016, students seeking admission to minor programs should use the *Major/Minor Status Change Form*. The completed form must be signed by the Executive Director, Chairperson, or Coordinator responsible for the minor program and then submitted to the Office of the Registrar. Collaterals are not declared until students apply for graduation.
7. At the time of filing for graduation, the academic Department or School must verify and sign off that all requirements for the minor or collateral are met. Verification of the completion of the minor or collateral must then be filed with the Registrar's Office.
8. Minors/collaterals will be designated on the student's transcript.
9. Only courses with a "C" (2.0) grade or better may be applied to the minor/collateral.

SECOND BACCALAUREATE DEGREE

For students who wish to obtain another baccalaureate degree, most programs at Kean University offer a second degree.

Students are encouraged to contact the appropriate Executive Director or Chairperson for the current status of second baccalaureate degree offerings in their areas of interest. The following programs do not offer the second baccalaureate degree: All NJCSTM programs (B.S. in Science & Technology, all options); B.S. in Health Information Management; B.S. in Medical Technology (Cytotechnology and Histotechnology options); B.S. in Psychology & Psychiatric Rehabilitation; B.A. in Architectural Studies; B.A. in Biology/Physician Assistant Track; B.A. in Speech-Language-Hearing Sciences; and all teacher education programs. Students with baccalaureate degrees interested in obtaining initial teaching certificates or additional teach-

ing certificates should go to <http://teachercert.kean.edu/home> for information about Kean's Post Baccalaureate Teacher Certification Program.

To be eligible for admission to a second baccalaureate degree program, students must have earned a baccalaureate degree from Kean or any other accredited four-year college or university, and must meet the admissions criteria of the major program selected. For more information about second degree admission criteria and application procedures, see Undergraduate Admissions section

This policy does not authorize the granting of two baccalaureate degrees simultaneously.

Students do not need to meet General Education or Free elective requirements (unless they are pre-requisites for required courses) but are required to meet all major and any additional required courses or University requirements for the second degree. A minimum of 32 degree credits, including at least one-half the major requirements, must be earned at Kean University after admission to a second baccalaureate degree program.

Candidates may take no more than six credits toward the second degree as non-matriculated students. Once accepted into the program, all coursework must be completed at Kean University.

In order to be considered eligible for honors status in the second baccalaureate degree program, a student must complete at least 45 credits at Kean University, with a grade point average of 3.45 or better commencing with the date of entry into the program.

ACADEMIC ADVISEMENT

The University views academic advisement as an important aspect of the academic experience. Students may receive individual advisement as follows:

New freshmen will have their initial and first semester advisement and registration coordinated through the School of General Studies (SGS) as part of their Transition to Kean (T2K) experience. For more information call 908-737-0300 (CAS) or 908-737-0330 (SGS).

Starting with the second semester, all matriculated students must seek advisement through their major Department or School.

New transfer, second baccalaureate degree and readmitted students are directed to seek advisement through their major Department or School.

Kean Ocean new transfer, second baccalaureate and readmit students should contact the Kean Ocean Administrative Office, Gateway 103, 732-255-0356 for assistance in scheduling a new student registration appointment. After their first semester, Kean Ocean students will have an assigned faculty advisor in their major.

Undecided/Undeclared Majors - Students who are neither officially intended nor declared with an academic major are considered undecided, and are advised by faculty and staff most appropriate for their academic interest

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

The College Level Examination Program (CLEP) is designed to test and recognize knowledge gained through non-traditional ways. CLEP offers examinations measuring achievement in five general areas of the liberal arts and in specific subject areas.

Kean awards up to 24 credits for examinations that measure general achievement in the areas of English composition (essay option only), humanities, mathematics, natural sciences, and social sciences-history. Students who have earned more than 30 credits, including transfer and other credit, are not eligible to take the general area exams or receive credit.

Up to 16 additional credits may be awarded for examinations in subject areas that measure achievement in specific college-level courses. Students who have completed more than 86 credits, including transfer and other credit, are not eligible to take the subject area exams or receive credit.

Credit is awarded for scores of 50 or above, except in foreign languages, where the equivalent four-semester level 2 score is required. Students interested in CLEP testing should first consult with their faculty advisor to ensure that possible CLEP credits can be applied toward degree requirements.

For additional information, visit: <http://cas.kean.edu/clep/>

CLASSIFICATION OF STUDENTS

Students attend the University either on a full-time or part-time basis and must matriculate to earn a degree from Kean.

Matriculated student status refers to those who have been admitted to the university and are enrolled in a program leading to a degree. Such status is available on both a full-time and part-time basis.

CLASS STANDING

Student standing is determined by the cumulative number of credits earned and is set at the following levels:

Freshman - maximum of 28.5 earned credits

Sophomore - minimum of 29 to maximum of 55.5 earned credits

Junior - minimum of 56 to maximum of 89.5 earned credits

Senior - minimum of 90 earned credits

SEMESTER CREDIT HOUR

Under the NJ State Administrative Code, Title 9A, a "semester credit hour" is defined as "150 minutes of academic work each week for 15 weeks in one semester, which is typically accomplished by 50 minutes of face-to-face class activity each week complemented by at least 100 minutes each week of laboratory or outside assignments (or the equivalent thereof for semesters of different length) but may also be accomplished through an equivalent amount of academic work as established by an institution, which may include additional class time, laboratory work, internships, practical

studio work, and other forms of academic work" (NJ Administrative Code, Title 9A-Higher Education).

COURSE LOAD

Course load limitations apply to work taken at both Kean University and at other institutions of higher education.

FALL AND SPRING SEMESTERS

Full-time students: The normal course load is 16 credits per semester with a minimum of 12 credits and a maximum of 18 credits, except as noted below for students taking developmental and supplemental university instruction credit courses.

Students required to take developmental and supplemental university instruction credit courses may register for the equivalent of no more than 16 credits per semester, including developmental and supplemental university instruction credit courses (for which credit-comparable tuition is charged, but no credit toward graduation is earned) until the required developmental and supplemental university instruction credit coursework is completed successfully.

Part-time students: Maximum course load of 11.5 credits per semester.

SUMMER SESSION

Unless prior approval has been given through the dean's office, students may register for a maximum of seven credits or two courses, whichever is greater, in each summer session.

WINTER SESSION

Unless prior approval has been given through the dean's office, students may register for a maximum of one course in the winter session.

POLICIES ON TRANSFER CREDIT

The following are the policies by which courses sent for transfer to Kean are reviewed and awarded:

- 1) Developmental courses (often designated as 0 or zero level) including developmental English as a Second Language (ESL) courses are not transferable and do not count towards graduation.
- 2) College credits from United States post-secondary institutions which are accredited by one of the six Regional Institutional Accrediting Organizations: Middle States Associations of Colleges and Schools, Northwest Commission on Colleges and Universities, North Central Association of Colleges and Schools, New England Association of Schools and Colleges, Inc., Southern Association of Colleges and Schools, and Western Association of Schools and Colleges are evaluated by Degree Audit Specialists within the Office of the Registrar. Transfer credit may be awarded from unaccredited institutions or from institutions who are accredited by national accrediting organizations after a review by the coordinator/department

chairperson of the academic department in which the student is currently enrolled.

- 3) Any college credit earned at a non-US institution **MUST** be evaluated by an evaluation service that is a member of National Association of Credit Evaluation Services (N.A.C.E.S.). These services have no affiliation with Kean University. A listing of the member evaluation services and additional information can be obtained by visiting www.naces.org.
- 4) Transfer credit limitations and residency requirements:
 - a) Students can transfer a maximum of 92 credits from a combination of all two and four year institutions attended.
 - b) Students can transfer a maximum of 66 lower division credits accepted (including all credits taken at two-year colleges and any lower division credits taken at four-year institutions).
 - c) Students must take a minimum of 32 credits and 50% of the Kean University major requirements (which is included in the 32 credits, but the total may exceed 32 credits for some majors with large credit requirements) at Kean University. If applicable, 50% of any second major, minor or collateral requirements must also be completed at Kean (which is included in the 32 credits, but the total may exceed 32 credits for some majors with large credit requirements, second majors, minors or collaterals).
- 5) Effective as of 2008, Kean endorses and fully participates in the Statewide transfer agreement for New Jersey Public County Colleges to New Jersey Public Colleges and Universities regarding students transferring with A.A. and A.S. degrees. Please note: The agreement does not apply to students graduating with A.A.S. degrees. Additionally, changing majors from two to four year schools can affect the total amount of credits that transfer.
- 6) Grade requirements for course transfer: The minimum grade accepted for transfer is a D with the following exceptions:
 - a) English Composition requires a minimum grade of C.
 - b) Major courses require a minimum grade of C.
 - c) Specific majors, (for example Education majors) may have certain course requirements that have minimum grades higher than C. These policies are the same for transfer students and native Kean University students.
 - d) Regulations for teacher education and certification limit transfer of credit to six semester hours of professional education coursework from the two-year college level.
- 7) Students who are matriculated at Kean University and wish to take courses at another institution must complete the Permission to Take Coursework at Another Institution form prior to registering for the class(es). This form must be signed by their major program chairperson, executive director, or other pre-

authorized individual and pre-establishes the equivalency and any grade requirements prior to registration. The completed form must be submitted to Kean's Office of the Registrar. It is the responsibility of the student to arrange to have the final, official transcript sent to Kean University upon completion of the class(es).

- 8) It is the responsibility of the student to contact ALL previous institutions to arrange to have final transcripts sent that reflect coursework completed after their initial acceptance and evaluation by Kean University.
- 9) Transfer credit will not be awarded from any institution that was not listed on the application at the point of initial acceptance to Kean (unless the courses were taken AFTER the initial acceptance to Kean). Omission of an institution attended to conceal poor performance is grounds for rescinding the offer of admission.
- 10) Credits from C.L.E.P., N.Y.U. Foreign Language Exams, A.P. and other alternative forms of college credit, when included as part of an A.A. or A.S. degree from a New Jersey County College will be awarded in the same manner as the county college, however, an official score report from the evaluating agency (College Board, NYU) must be sent to Kean prior to the awarding of credit. For all other transfer students taking these exams prior to their admission to Kean, credit will only be awarded if the program requirements have space to accept those credits and Kean's minimum passing score requirements are met. An official score report from the evaluating agency (College Board, NYU) must be sent to Kean prior to the evaluation and awarding of credit.
- 11) Submission of fraudulent transcripts or transcripts from diploma mills are not accepted, and will permanently bar the student from admission to the university.
- 12) While credits do transfer into the University, grades do not. Only grades for courses completed at Kean are considered into the calculation of a student's Kean University grade point average (GPA). If a student wishes to recalculate a grade for a course, the course must be taken or retaken at Kean.
- 13) Course equivalencies are determined after a review and comparison of available course descriptions. When course descriptions are not readily available, students must provide this information or a course syllabus to their respective Degree Audit Specialist in Office of the Registrar for consideration. New Jersey community college coursework equivalencies are determined using these same parameters and are published on the www.njtransfer.org website.

TEACHER EDUCATION CREDITS

Regulations for teacher education and certification limit transfer of credit to six semester hours of professional education coursework from the two-year college level.

ADVANCED PLACEMENT

Kean grants credit and appropriate advanced standing to students who have successfully completed Advanced Placement courses in high school and who have passed the Advanced Placement Examination of the College Entrance Examination Board with a grade of 3 or higher (with some exceptions that require a 4 or higher). Six semester hours of credit is granted for full-year AP courses. Three semester hours of credit is granted for one-semester AP courses. Three semester hours of degree credit is granted for the Advanced Placement courses "Latin Literature" or "Latin Vergil."

Advanced Placement credit is recognized as fulfilling General Education requirements where applicable and is treated as ungraded but successfully completed transfer credit. If the Advanced Placement course can be equated with specific course(s) in the University, degree credit equivalent to one or two semesters' work in those courses is then granted. Unless this credit is awarded on another college transcript and transferred to Kean, official score reports are required from the College Board in order to award credit at Kean.

For more information contact Rosa Paulino at paulinro@kean.edu.

ASSESSMENT OF EXPERIENTIAL LEARNING

Kean University recognizes that an individual can gain important and life-enhancing knowledge outside the usual structure of regular classroom instruction. Credit can be awarded for prior learning experiences if the individual can demonstrate a level of understanding equivalent to that resulting from traditional coursework and can otherwise meet the degree requirements of the University.

A matriculated student may apply for evaluation of prior learning from life experience at any point after earning 12 credits with a minimum GPA of 2.5 at Kean University but prior to applying for graduation. **No credits granted for experiential learning count towards the University residency requirements of a minimum of 32 semester hours (s.h.), including one-half of the major requirements, that must be earned at Kean in order to qualify for the baccalaureate degree.**

In order to earn degree credit, experiential learning must be evaluated as corresponding to the major objectives of coursework offered by Kean University. Each academic program determines the extent of experiential learning appropriate to its discipline.

All experiential learning is evaluated on the basis of "credit granted" or "credit not granted." Only "credit granted" will be recorded on the student's transcript. Any awarded credit is treated as ungraded but successfully completed credits.

Applications for assessment of experiential learning may be obtained in the Office of the Vice President for Academic Affairs, Kean Hall, K-107, (908) 737-7030.

ASSESSMENT OF STUDENT LEARNING AND DEVELOPMENT

In order for the University to assess and improve its academic programs and student services, periodic measurements of student perceptions and learning must be obtained. As a component of the assessment program developed by Kean University, faculty teaching in academic programs and staff professionals providing student services may require (in their own respective areas) students to participate in one or more evaluative procedures. Assessment activities may include examinations and performances as well as surveys and questionnaires about students' experiences. The assessment information obtained will be used to improve the quality of educational experiences for students, and ensure the integrity of degrees earned at Kean University.

For information regarding program student learning outcomes please see the listing of College and Program Assessment Plans at <http://www.kean.edu/KU/Kean-University-Assessment-System>.

PROGRAMMING DESIGNED TO FACILITATE ACCESS TO HIGHER EDUCATION

A significant number of students beginning higher education across the country require additional college preparation in the basic skills areas of reading, writing, and mathematics. Many others are students whose native language is not English who also require additional preparation.

Kean is committed to providing the support that is necessary to prepare all its students to participate fully in the wide range of academic programs available at the University. The Center for Academic Success, the School of General Studies and their programmatic offerings are the University's major initiatives in this area. For additional information on these services and offerings, see the sections on the Center for Academic Success and the School of General Studies in this catalog.

Two additional programs listed below have been designed at Kean University to enable entering students to improve their basic skills or their fluency in English in order to enhance the likelihood of success in college-level coursework.

ENGLISH AS A SECOND LANGUAGE PROGRAM (ESL)

The English as a Second Language (ESL) Program at Kean University provides high quality instruction for matriculated students who are nonnative speakers of English and who require additional development in academic English.

After admission to the University, students complete placement testing. This includes oral, writing, and reading assessments. While freshmen are required to take these tests, transfer students who are non-native speakers of English are encouraged to do so as well. Transfer students can contact the ESL office to make an appointment for testing at (908) 737-0420.

After students complete their testing, they receive a Letter of Advisement from the ESL

Program informing them of their ESL level and course requirements. There are five levels in the ESL Program, each building on the one before. Each level consists of a required 6-credit core course and optional 3-credit auxiliary courses. Placement in the core courses is determined by placement testing, as described above. Once placed in a core level, students complete the rest of their ESL program sequentially. Students exit the ESL program's core courses by completing ENG 1430, Composition II for Non-native Speakers. Placement in the auxiliary courses is determined by placement testing, or by teacher assessment of areas needing intensive support. The English Department and General Education offer a few courses with a designated L-section for non-native speakers. These L-sections provide the same content as other sections but give additional attention to the ongoing language development of non-native speakers. After exiting the ESL program, non-native speakers may enroll, if they choose, in L-designated sections, where such sections are offered.

Courses in the ESL program are designated either with an ESL prefix or an ENG prefix. Courses with an ESL prefix are not offered for graduation credit but carry institutional credit for purpose of determining total semester course load. Courses with an ENG prefix earn credit toward the degree.

Students interested in more information about the ESL Program should contact the program staff in CAS, Room 302, or call (908) 737-0420.

(SSP) SPANISH SPEAKING PROGRAM/PROGRAMA HISPANO

The Program is designed for Spanish-speaking students who are English Language Learners (ELL). During the first two years, students earn credits towards their degree by taking General Education courses in Spanish while completing the English as a Second Language (ESL) program. At the end of the second year, or once the ESL sequence is completed, students transition to all-English courses. Students who do not meet the ESL requirement are not eligible for the program. In order to be admitted into the program the student must have a minimum 2.5 cumulative GPA at the time of application for admission. SAT is not required. All foreign transcripts must be evaluated by a N.A.C.E.S.-accredited foreign credential evaluation agency. Such agencies/services have no affiliation with Kean University. A course-by-course evaluation is required that identifies and describes each diploma or certificate, indicates periods of education, and provides an equivalency to a U.S. high school diploma for each document. Cumulative GPA must be included. Please visit www.naces.org for a list of agencies.

Programa diseñado para estudiantes hispanohablantes que toman clases de inglés como segundo idioma. Durante los dos primeros años los estudiantes toman cursos de Educación General (GE) dictados en español, mientras completan los cursos de inglés como segundo idioma (ESL). Al final del

segundo año, o una vez el estudiante haya completado la secuencia de cursos de ESL, el estudiante deberá tomar todos los cursos en inglés. Los estudiantes que no cumplan con los requisitos de ESL no son elegibles para el programa. Para ser admitido al Programa Hispano, el estudiante debe tener un promedio académico acumulado ("Cumulative GPA") de 2.5 mínimo en el momento de solicitar la admisión. No se requiere SAT. Los expedientes académicos extranjeros deben ser evaluados por una institución que pertenezca a la Asociación Nacional de Evaluadores NACES. Dichas agencias no están afiliadas a la universidad. La evaluación debe hacerse curso por curso y debe identificar y describir cada diploma o certificado, indicar fechas y proveer una equivalencia de la secundaria al diploma de "High School". La equivalencia debe incluir el promedio académico o "GPA". Para encontrar la lista de las agencias visite www.naces.org.

INDEPENDENT STUDY

For the student who has demonstrated a high level of competence as determined by qualifying departmental standards, independent study provides an educational experience that cannot otherwise be accomplished through the regular course offerings of the University. No activity that can be carried out either in partial or complete fulfillment of the requirements of an existing course may be approved for investigation through independent study.

An independent study project is designed and carried out by a student under the direct supervision of a faculty member. This project may consist of, but is not limited to, a research project, analytical writing, creative writing, intensive or extensive reading, or a studio or laboratory project.

The eligible candidate for independent study should first outline an appropriate topic, identify a faculty sponsor, and submit a proposal following guidelines established by the sponsoring department or academic program to the faculty sponsor and academic program office. Independent study courses are found in the academic program offerings.

GRADING AND ACADEMIC STANDING

The letter grading system listed below was effective beginning with the Fall 1990 semester.

The student's academic standing in every course is reported at the end of each semester by a letter grade. Credit is granted for the following:

A	Excellent
A-	
B+	
B	Good
B-	
C+	
C	Fair
D	Poor
P	Pass (Pass/Fail option, supplemental university instruction credit courses and developmental courses)

S	Satisfactory (Student teaching and related field experience)*
No credit is granted for the following:	
F	Fail
U	Fail (Pass/Fail option, student teaching and related field experience,* supplemental university instruction credit courses and developmental courses)
AF	Fail (administratively assigned, student stopped attending but did not drop the class)
IN	Incomplete Work
IP	Incomplete Work (Pass/Fail)
IC	Incomplete Work (CG/NC)
W	Withdrawn
AU	Audit
R()	Repeated grade
NR	Grade not reported at time of collection
LV	Leave of absence

*Student teaching is graded as "S" or "U." Credits for student teaching are not used in computing the cumulative grade point average.

X() indicates Academic Amnesty granted, where courses and grades no longer count toward the academic program (see below for additional information).

ACADEMIC AMNESTY POLICY

The Academic Amnesty policy is designed to forgive the grades of students who previously attended Kean University and were not ready for the rigors of higher education or had other extenuating circumstances that prevented academic success—an opportunity to pursue a "fresh start."

Beginning Fall 2009, at the time of readmission, undergraduate students may petition for academic amnesty provided the following conditions have been met:

- At the time of the request, the student must have had a break in attendance of at least two years to be eligible for the Academic Amnesty Policy.
- All holds and financial obligations with Kean University must be resolved prior to applying for Academic Amnesty. Students should contact the Office of Student Accounting at (908) 737-3240 to make certain that no outstanding balance exists which would prohibit an application from being considered.
- During these two years, either of the following requirements must have been met by the student:
 1. Completed a minimum of 12 college-level credits at a community college or another regionally accredited college or university earning a minimum GPA of 2.5
 2. Gained maturity outside of higher education with demonstrated personal growth through service in the armed forces, significant service in the community or other public organizations, or recovery from extenuating circumstances.

Students may petition for one or more semesters of amnesty, but the multiple semesters must be consecutive. Each semester must be treated as a whole; the student cannot choose individual classes in a semester. (Note for students in receipt of GE Bill benefits: Any courses successfully completed prior to amnesty that need to be repeated may not be included in those certified to the Department of Veterans Affairs.)

All petitions must be supported by sufficient documentation. The Academic Amnesty Committee may request additional documentation, from the student, when reviewing the documentation supporting the appeal. In the case of extenuating circumstances, appropriate documentation (i.e., letters confirming medical treatment and/or confirmation of illness or death in the family) will be required. All documentation will be reviewed by a committee whose decision on amnesty will be final; that decision may not be appealed. The committee has the option of accepting, deferring, or denying the application. This committee will be appointed by the Provost & Vice President of Academic Affairs and be comprised of representatives from the CAS, Dean's Offices, Office of the Provost/VPAA, Faculty, and the Registrar's Office.

Grades for which academic amnesty applies will not be counted in the student's cumulative average nor will those credits be counted towards the degree, however, these courses will remain on the student's permanent record (as such, Financial Aid will count these as attempted credits toward financial aid eligibility). The transcript will be marked accordingly with all grades for which academic amnesty applies being designated with an "X" prefix. Academic Amnesty is not recognized by all institutions and/or certifying agencies. Students can apply for academic amnesty only once and the action is irreversible, if granted. Students are responsible for investigating any implication of this action on their financial aid status.

ACADEMIC INTEGRITY

(Approved by Kean University Board of Trustees June 25, 2012)

Kean University is aware of and sensitive to the pressures exerted by peers and family, work environment, the academic process, and society in general, and is committed to creating an environment in which academic integrity is supported and academic dishonesty is not tolerated. To that end, the University has taken steps to ensure that all members of the academic community are fully aware of the Academic Integrity Policy by: widely distributing the policy, posting it on the University's website, identifying material on all course syllabi, and providing training to increase awareness of Academic Integrity issues among all members of the Kean University Community.

Thus, administrators, staff, Board of Trustees Members, and faculty at Kean University have an obligation to support academic integrity by ensuring that all members of the University community understand:

- What constitutes academic integrity

- How to prevent academic dishonesty
- What sanctions are imposed for academic dishonesty
- What consequences ensue as a result of such sanctions, and
- What process is used to impose those sanctions

All members of the Kean Community shall actively engage in the academic process. In order to ensure compliance with the Academic Integrity Policy, administrators, faculty, staff, librarians, and students should:

- Represent their identity truthfully in all situations
- Protect their materials, including papers, tests, and other academic exercises, from unauthorized access
- Protect their means of access to resources, including computer passwords and library access codes, from unauthorized use of the system
- Respect the work of others by acknowledging their words, ideas, opinions, theories, data, programs, and other intellectual material in accordance with the guidelines of the discipline or other faculty instruction
- Report data or source information accurately
- Refuse to participate in activities that violate the Academic Integrity Policy
- Read, understand, and comply with the code of ethics and/or clinical code of their chosen discipline, and
- Represent their mastery of material truthfully and accurately.

The complete Kean University Academic Integrity Policy is found on the Kean website at: <http://www.kean.edu/admin/uploads/pdf/AcademicIntegrityPolicy.pdf> or obtain a copy from the Office of Academic Affairs in K-107.

REPEATING COURSES FOR GRADE RECALCULATION

Undergraduate courses taken by undergraduate matriculated students are eligible under this policy effective with the Fall 1987 semester. Courses taken prior to Fall 1987 are not eligible for a grade recalculation under this policy. Students who receive a grade of "A-", "B+", "B", "B-", "C+", "C", "D", "F", or "AF" in a course may repeat that course. The course number must be the same in the initial and repeated terms. This policy permits four repeated courses or 12 credits, whichever is greater, to be excluded from the Grade Point Average (GPA). A course may be recalculated only for a higher grade and may not be recalculated more than once. Courses taken after graduation are not eligible under the repeat policy. A recalculation will not be permitted after the baccalaureate degree has been posted to the student's record. Once the degree has been posted, the academic record is frozen and no changes are permitted.

The grade in the repeated course, if higher, will be included in the GPA and the former grade will be designated as an "R" grade and excluded from the GPA. If the grade in the repeated course is the same or lower, both

grades will remain in the GPA and the course will be counted only once in meeting degree requirements. All courses submitted for consideration under this policy must be Kean University courses. No transfer credit can be utilized for recalculation of the GPA.

The student must initiate a request for recalculation of a repeated grade by completing the Petition for Repeat Grade Recalculation available at Office of the Registrar (it does not happen automatically). For Kean Ocean students, it is available in the Kean Ocean Administrative Office, Gateway 103. Once elected, this option may not be changed.

GRADE POINT AVERAGE

The student's overall academic standing is indicated by a grade point average. The grade point average is determined by dividing the total grade points earned by the total number of semester hours calculated. Numerical points for each letter follow: A = 4.0; A- = 3.7; B+ = 3.3; B = 3.0; B- = 2.7; C+ = 2.3; C = 2.0; D = 1.0; F = 0. The cumulative average is determined only on courses taken at Kean University.

Omissions or errors in grade compilation should immediately be reported to the Office of the Registrar. Questions regarding letter grades assigned by an instructor should be discussed directly with the instructor as soon as possible and no later than the last day of the eighth week of the subsequent major (fall or spring) semester. This timeline does not apply to graduating seniors; change of grades must be completed no later than two weeks after the graduation date. Example: For May degree candidates the change of grade must be completed no later than two weeks after the May ceremony; for January and August candidates, no later than the end of the month. A change of grade will not be permitted after the baccalaureate degree has been posted.

PASS/FAIL

A matriculated student in good academic standing who has earned at least 30 semester hours of credit may, at any time before graduation, select a maximum of six courses from free electives to be taken on the Pass/Fail option. The Pass/Fail option is available only for free elective coursework. Courses needed to satisfy General Education requirements, cognate requirements, additional requirements, major or minor program requirements, or collaterals must be completed according to the regular system of earned grades.

Coursework taken on the Pass/Fail option is graded as either "P," which represents achievement at the level of "C" or better, or "U," which indicates failure. The cumulative grade point average is not affected by work completed on a Pass/Fail basis, nor are these credits considered when calculating academic honors.

The Pass/Fail option must be declared at the Office of the Registrar, and must be done by the end of the third week of classes during the fall and spring semesters and by the end of the first week of classes during the respective summer session. For Kean Ocean students, this option is to be declared through the Kean

Ocean Administrative Office, Gateway 103, according to the same deadlines above. During this period students may change into the Pass/Fail option from a course initially enrolled in for a regular letter grade or out of the Pass/Fail option and re-register for a regular letter grade.

COURSE AUDIT

A student who wishes to engage informally in regular University offerings may, with the permission of the instructor, audit one course per semester or term of study. Formal course requirements such as completion of written papers or quizzes and examinations do not apply to the auditing student. Regular tuition rates are charged for this course. Audit courses are not included in enrollment status when determining financial aid awards.

All lecture, laboratory and studio courses may be audited. Auditing status permits the student to attend class; the auditor is not expected to fulfill course requirements that regularly-registered students must satisfy in order to earn academic credit. The title of the audited course is printed on the student's transcript, along with the grade symbol "AU." No academic credit is earned for audited courses.

Students who wish to audit a course should register for that course during the regularly scheduled registration period via KeanWISE. In order to declare the audit option, the Audit Form must be obtained at the Office of the Registrar or the Kean Ocean Administrative Office, Gateway 103 and the instructor's approval must be secured. The signed form must be returned to the Office of the Registrar or the Kean Ocean Administrative Office, Gateway 103, within the first three weeks of the fall or spring semester or the first week of summer session. Please note that students may also change out of audit option and re-register for earned credit during this initial declaration period as stated above.

INCOMPLETE

A grade of incomplete (IN, IP, IC) may be reported for a student who has completed course requirements throughout the semester and then because of illness or other unusual and substantiated cause has been unable to take the final examination or to complete a limited amount of assigned work due near the end of the semester. Unsubstantiated absences from class may not be used to justify an incomplete grade.

Class attendance in subsequent semesters may not be required by the instructor as a condition for removal of the incomplete grade. If a substantial amount of work has been missed for medical or other valid reasons, the student should petition the college dean to be withdrawn from all courses.

It is the responsibility of the student to initiate a request for a grade of incomplete by contacting the instructor of the course and filling out the form "Conditions for an Incomplete Grade and Its Removal." The instructor of the course must receive this request prior to the submission of grades at the end of the semester. If no such request is

received or if the instructor judges the request unacceptable, an appropriate semester grade shall be submitted based upon the student's attainment of the stated goals of the course.

It is the student's responsibility to make up the examination or other work prescribed in a contract written by the instructor as part of the above form. This contract will also indicate the final grade to be assigned if the student's unfinished work is not completed by a specific date. The prescribed time period will be no later than the last day of the eleventh week of the fall or spring semester immediately following the receipt of the incomplete grade. An earlier deadline may be agreed upon by the instructor and the student and in most cases it is expected that a shorter period of time will be specified in the contract for the removal of the IN, IP and IC. This time line does not apply to graduating seniors; incomplete grades must be completed no later than two weeks after the graduation date. Example: For May degree candidates incomplete grades must be completed no later than two weeks after the May ceremony; for January and August candidates, no later than the end of the month of graduation.

When the student has made up the assignment(s) or taken the examination on time, the instructor forwards a change of grade form for action by the executive director/departments chairperson and the college dean. The dean then transmits the form to the Office of the Registrar for processing the grade change. If the student has not completed the work according to schedule, the instructor reports as the final grade for the semester the grade recorded in the contract worked out with the student. The final grade must be submitted to the Office of the Registrar before the baccalaureate degree is posted to the student's record. Once the degree has been posted, the academic record is frozen and no changes are permitted.

GRADE GRIEVANCES

If a student believes that he or she has not been graded fairly in a course, it is the student's right to initiate a grade grievance. A formal process exists for the resolution of such problems. The overall guidelines are basically uniform from academic program to academic program, with each free to develop specific procedures within these guidelines. Requests for reconsideration of a grade must be brought to the faculty member as soon as possible after the conclusion of the course and no later than the end of the eighth week of the subsequent fall or spring semester. The steps in the process are outlined below; it is understood that if a satisfactory resolution is reached at any level, the process ends. If at a given step either party is dissatisfied with the proposed resolution, the dissatisfied party may request reconsideration to the next level. Decisions by the college dean are final, with no provision for further appeal beyond that point.

1. The student meets with the faculty member to request information about the faculty member's grading decision or evaluative judgment. If after receiving an explanation from the faculty member, the student remains dissatisfied, he or she may

request reconsideration of the grade by the department chairperson/executive director/designee.

2. The student meets with the department chairperson/executive director/designee to discuss the assigned grade. The chairperson/executive director may choose to intervene directly at this point and attempt to seek a resolution or may decide to refer the question to the academic program's grievance committee and convene the committee in accordance with the program's policies and procedures.
3. The academic program's grievance committee, comprising faculty members and at least one student, hears the grievance. The committee determines (in accordance with prevailing program practices and the specifics of the particular grievance) a procedure to follow. Both the student and faculty member might be asked to submit materials in writing, or both might be invited or required to appear before the committee. The committee may schedule these meetings so that the parties appear separately or together. Additional information may be requested by the committee as needed.
4. The grievance committee makes a determination and notifies the student and faculty member in writing of its decision.
5. If the decision of the grievance committee is not acceptable to either of the parties involved or if implementation of the decision requires the attention of the college dean, the grievance is brought to the dean for resolution and all relevant materials are forwarded to the dean's office.
6. The final grade must be submitted to the Office of the Registrar before the baccalaureate degree is posted. Once the degree has been posted, the academic record is frozen and no changes are permitted.

COMMUNICATION OF COURSE REQUIREMENTS TO STUDENTS (CLASS SYLLABUS)

Instructors are required to communicate to students in writing at the start of the semester essential information about the course.

The required syllabus templates are available to instructors via the following link:

<http://syllabus.kean.edu>.

At a minimum, a class syllabus includes:

1. Course name, number, section
2. Semester
3. Instructor contact information, including phone number, e-mail address and faculty office location
4. Faculty office hours (times/place)
5. Prerequisites, if any, to the course (Students who have not met the required prerequisites should be asked to withdraw)
6. Required textbooks
7. Course objectives
8. Outline of course content
9. Course requirements, methods of evaluation,

and the basis by which the final grade is derived

10. Special features of the course e.g., field trips or visits to facilities off campus
11. Academic deadlines e.g., the last day to withdraw and the last day to declare P/F option
12. Academic Integrity Policy (available at the Center for Academic Success or at <http://www.kean.edu/admin/uploads/pdf/AcademicIntegrityPolicy.pdf>)
13. Student Code of Conduct, as it discusses expectations of appropriate conduct in the classroom: <http://www.kean.edu/KU/Code-of-Conduct>
14. Information on CampusAlert, the University's emergency notification system (www.mir3.com/kean). Students are encouraged to register in the system in order to be informed of campus emergencies, weather notices and other announcements. Kean Ocean students should follow the Ocean County College webpage and notification system for campus emergencies and weather notices.
15. All students must have a valid Kean email account. For those who do not already have one, forms are available on-line at <http://www.kean.edu/KU/Forms-OCIS>; click on E-mail Account Request Form.

The course syllabus is a contract between the faculty member and the student. Changes in course requirements made after the start of the semester should also be communicated in writing to students. Students, in turn, are responsible for meeting the requirements of the course as delineated in the syllabus and for requesting clarification from the instructor on items not clear in the syllabus. Students who experience difficulty in meeting course requirements should discuss their situation with the instructor and seek help. For more information about the course syllabus, please go to <http://syllabus.kean.edu> or contact your program's Executive Director, Chairperson, or Dean's Office.

SYLLABUS NOTICE FOR LABORATORY COURSES

REPRODUCTIVE HAZARDS

Reproductive hazards are substances or agents that may affect the reproductive health of women or men or the ability of couples to have healthy children. Efforts have been made to eliminate the use of known reproductive hazards in our labs. However, the vast majority of laboratory chemicals have never been tested by the manufacturer or by any governmental agency. As a result, their effect on a developing fetus is unknown; female students must assume that each chemical used in this lab presents a hazard to an unborn child. If you are pregnant, become pregnant or are planning to become pregnant during the semester, you are strongly encouraged to speak privately with your instructor who will be able to provide written health and safety information about each chemical that will be used in the class. You are asked to review and discuss this information with your healthcare provider.

After you have reviewed the information, you can choose to:

1. Continue your enrollment in the lab - You will be asked to sign a waiver and will be expected to follow a strict set of health and safety procedures while in the lab.
2. Withdraw from the lab - Your instructor will assist you in creating a plan to complete the course at a later date.

ADMINISTRATIVE PROCEDURES FOR FACULTY AND STAFF

If a student voluntarily discloses to you that she is pregnant or is planning to become pregnant while enrolled in a laboratory class, please treat the information as confidential protected health information.

The instructor should contact the Office of Environmental Health and Safety (EHS) (908-737-5109, skupiec@kean.edu) for assistance, and should be prepared to provide a list of all chemical substances that will be used in the class. EHS will gather safety data sheets for the substances, conduct a risk assessment, and prepare a set of health and safety instructions for the student. EHS will also notify Kean's University Council of the need to prepare a waiver.

EHS will provide the safety data sheets, the health and safety instructions, and the waiver to the instructor. The instructor will send the information to the student via email, and allow her time to review the material and to choose whether to stay in the lab or not. If she chooses to withdraw, the instructor should contact the Dean's office for assistance. If she chooses to remain enrolled in the course, ensure that she signs the waiver, and follows the health and safety instructions provided.

LEAVE OF ABSENCE

Students who must leave the University temporarily either for medical or personal reasons may request a leave of absence. Medical leaves are processed by the Office of Health Services (www.kean.edu/offices/health-services/our-services); personal leaves are processed by the Counseling Center (www.kean.edu/offices/counseling-center).

Students who request a leave of absence after a semester has begun should do so no later than one week past mid-semester. The ordinary length of a leave of absence is a semester; students requesting a leave of absence for two consecutive semesters will need to reapply for readmission to the University. In unusual circumstances the Office of the Vice President for Student Affairs may approve a renewal of leave for the semester immediately following.

Military personnel called for active duty that requires a leave from the University must bring a copy of their activation orders to the staff of Veteran Student Services in the Center for Academic Success (CAS 208). To return to the University from a preapproved leave of absence, the student should contact the One-Stop Service Center located in the Office of the Registrar (Administration Building 1st floor) to request permission to register for the semester.

The above provisions apply to full-time and part-time students in good standing. Good

standing is defined as follows: a cumulative grade point average at the completion of the semester prior to request for leave of absence that meets the minimum academic requirements of the University (2.0 or better); all financial and other obligations to the University have been met in full; and there is no disciplinary probation/suspension/dismissal in effect.

PROBATION, DISMISSAL, AND DISCONTINUANCE POLICY FOR REGULAR COURSEWORK

Matriculated students earning a cumulative grade point average of less than 2.0 are subject to academic probation. A cumulative average that would place a student on academic probation for the third time makes the student subject to dismissal from the University.

Notification of Academic Dismissal

Academic dismissal decisions are made after each academic year (after the conclusion of the spring semester). Students dismissed from the University are notified by certified letter from the appropriate college dean.

REINSTATEMENT AFTER ACADEMIC DISMISSAL OR DISCONTINUANCE

Students who have been academically dismissed are ineligible for readmission, despite the length of time after the dismissal. The only way for a student to return to Kean University after dismissal is through the Appeals Process. Appeals from dismissed students are reviewed by the Academic Dismissal Committee, which is composed of representatives from the student body, faculty and administration of the University. The recommendations of this committee are advisory to the Dean, who makes the ultimate decision. The chairperson forwards all committee recommendations to the appropriate college dean. Decisions on academic appeal by the college dean are final. This decision will take one of three forms: reinstatement to good academic standing, reinstatement to probationary status, or denial of appeal.

Contact Mrs. Jean Brown, Intervention and Retention Coordinator, CAS 122, for more information on the appeals process and the appropriate deadlines. For more information see the CAS Division of Intervention and Retention section of this catalog.

Students who have been dismissed may not take courses at Kean University under any circumstances unless they have been officially reinstated by a college dean. Reinstatement to the University does not imply or constitute reinstatement to a particular academic program within the University (unless there is a specific provision to that effect in the reinstatement letter from the college dean). Upon reinstatement, the student will be subject to current University curriculum requirements unless otherwise indicated. Students who have been away from the University for more than two years may also want to subsequently pursue Academic Amnesty, which can impact the committee deliberations (see “**ACADEMIC AMNESTY POLICY**”).

APPLICATION FOR BACCALAUREATE DEGREE

All students entering their senior year with 82 (students not considered seniors until 90 credits are earned) or more credits earned are notified of eligibility to apply for graduation.

Students are provided with information related to filing for the degree and graduation application deadlines from the Office of the Registrar.

AWARDING OF DEGREES

Formal Commencement exercises are held each year at the close of each spring semester. Diplomas also are available in January and August for students who complete degree requirements during the subsequent summer session or fall semester.

January graduates and May and August candidates are invited to participate in the formal May commencement ceremony. To participate in the May commencement ceremony all required coursework must be completed by the end of Summer II session of the same year of the commencement.

ACCESS TO EDUCATION RECORDS-FERPA

Introduction

Kean University collects data and information about students in order to facilitate their educational development. The Family Educational Rights and Privacy Act (FERPA) of 1974 and the Higher Education Amendments of 1998 delineate the rights of students to be informed of the existence of this information, to have access to it, and the conditions under which information about students may be disclosed to others. A copy of the Family Educational Rights and Privacy Act is available in the Office of the Registrar. The material below specifies the Kean University policy and procedures for complying with FERPA. All employees of the University who handle student records are bound by the Kean policy and procedures.

General Policy Statement

Information from student educational records may be shared within the university by officials with a “legitimate educational interest” (as defined in this document) in such information. Information from records, files, and data directly related to a student shall not be disclosed by any means to individuals or agencies outside the university without the written consent of the student, except in response to directory information or to a subpoena or court order, or in those cases of specifically designated educational and governmental officials as required by FERPA and explained below.

Students

A student is defined as an individual currently or previously enrolled in any academic offering of the university.

Student Records

Educational records are those which contain information directly related to the student. Records originating at another institution are also subject to this policy. Educational records

include the following:

Record	Location
Admissions Records	Admissions Office, Graduate Office, Office of the Registrar, Kean Ocean Processing Center
Career Placement Records	Center for Academic Success
Cumulative Academic Records	Graduate Office, Office of the Registrar, Kean Ocean Administrative Office
Disciplinary Records	Vice President for Student Affairs, Residence Life
Health Records	Health Services
Financial Records	Financial Aid, Student Accounting Kean Ocean Administrative Office

Excluded from the definition of student educational records are records or notes of instructional and administrative personnel which are in the sole possession of the individual. Records exempt include the notes of a professor or staff member concerning a student and intended for that individual's own use; information maintained by a physician, psychiatrist, psychologist, or paraprofessional used in connection with the provision of treatment; and alumni records.

University Officials Responsible for Student Records

The Vice President for Academic Affairs, the Executive Vice President for Operations, the Vice President for Student Affairs, the Associate Vice President for Enrollment Management, and the Dean of the Nathan Weiss Graduate College are responsible for student records within their respective areas.

Directory (Public) Information

Kean University designates the following items as Directory Information:

Category I	Student name, permanent local, and email address, phone number, dates of attendance, class, date of graduation
Category II	Degrees and awards conferred, major
Category III	Weight and height of members of athletic teams
Category IV	Photographic, video, or electronic images

This information is regarded as public, and the University may disclose any of these items without prior written consent. The student is entitled to request that any or all categories of this information not be made publicly available. Such a request must be made in writing to the Registrar on an annual basis. Requests must be filed within 10 days after the start of the fall or spring semester and shall remain in effect until the next fall semester.

Student Rights to Inspect Education Records

A student has the right to inspect and review his or her educational records. To do so, the

student must submit a request in writing to the director of the office in which the record is located. This official must respond within 45 days of the request by arranging an appointment for the student to view the records. When a record contains information about more than one student, the student may inspect and review only the records which relate to him or her. The student is also entitled to copies of his or her records generated at Kean University at a reasonable administrative cost.

Educational records will not be released to the student or any third party if the student has a financial obligation or if a serious academic and/or a disciplinary matter involving the student remains unresolved.

Recommendation letters and other information obtained or prepared prior to January 1, 1975, which were written on the assumption of confidentiality, will not be made available to the student.

Disclosure to Others

Kean will disclose information from a student's education records only with the written consent of the student, (for more information on the FERPA/Student Educational Records Release, go to http://131.125.2.140/admin/uploads/pdf/FERPA_Student_Guide.pdf) except if required by university officials with "legitimate educational interest," defined in part A, below, or in those cases delineated in part B, below.

- A. University officials with "legitimate educational interest" are those with general or specific responsibility for promoting the educational objectives of the University. This includes individuals within the institution involved in teaching, research and related activities such as academic advising, counseling, academic support, supervision of co-curricular activities, official University committees or clubs, financial assistance, medical services, and job placement. A university official is a person employed by the university in administrative, supervisory, academic, or research, or support staff positions. This includes members of the Board of Trustees and person employed by or under contract to the University to perform special tasks, such as the attorney or auditor. University officials have "legitimate educational interest" if they are:
 - performing a task that is specified in their job description
 - performing a task related to a student's education
 - performing a task related to the discipline of a student
 - performing a service or benefit relating to the student or student's family, such as health care, counseling, job placement, or financial aid assistance.
- Clerical personnel employed to assist university officials in their job performance, may also be granted access to student records. Access by all personnel is restricted to that part of the student record necessary for the discharge of assigned duties.

B. Information may also be disclosed without the written consent of the student if requested under the circumstances delineated below:

1. By federal and state authorities. Student records may be disclosed to certain officials of the U.S. Department of Education, the Comptroller General, and state and local educational authorities, in connection with certain state or federally supported education programs.
2. By other educational institutions. Disclosure of appropriate academic records may be made to officials of other educational institutions to which the student has applied or intends to enroll.
3. In response to a judicial order. Information concerning a student shall be released if properly subpoenaed pursuant to a judicial, legislative, or administrative proceeding. In the case of a judicial order or a subpoena, the University will make a reasonable effort to notify the student of the order or subpoena in advance of compliance.
4. In support of financial aid requests. Information from student records may be released in connection with a student's request for financial aid as necessary to determine eligibility or to enforce the terms and conditions of the aid.
5. If mandated by a state law requiring disclosure that was adopted prior to November 1994.
6. By educational agencies conducting research. Information which will not permit the individual identification of students may be released to educational agencies for research or for the development of predictive tests. Information may also be released to organizations conducting certain studies on behalf of the University. In these cases, the information may not be used in any way that permits identification of an individual student.
7. By accrediting agencies. Information may be released to accrediting agencies to enable them to carry out their functions.
8. In case of emergency. On an emergency basis, information about a student may be released by the Registrar when that information is necessary to protect the health or safety of a student or other individuals.
9. To parents of dependent students. Information concerning a student who is dependent, within the meaning of section 152 of the Internal Revenue Code of 1954, may be released to that student's parents. For purposes of this policy, unless information is presented that the student is, in fact, a dependent, students will be assumed not to be dependent. Parents who wish to provide such information should be referred to the Office of the Vice President for Student Affairs.
10. Parental notification of drug and alcohol violations, Section 952 of the 1998 Amendments to the FERPA, authorizes the University to inform a parent or legal guardian of any student under the age of 21, who has been found in violation of any law or University policy governing

the use or possession of alcohol or controlled substances. For purposes of this policy, the University will first notify the student of its intent to notify the student's family. The family will then be notified unless it is determined that such communication will put the student at risk. (See Drug and Alcohol Policy at <http://www.kean.edu/policies/drug-alcohol-policy>).

Record of Requests for Disclosure

Kean will maintain a record of all requests for and/or disclosure of information to outside agencies from a student's educational record. The record will indicate the name of the party making the request, any additional party to whom it may be disclosed, and the legitimate interest the party has in requesting or obtaining the information. This record may be reviewed by the student.

Correction of Education Records

Students have the right to ask to have records corrected that they believe are inaccurate, misleading, or in violation of the privacy rights. The substantive judgment of a faculty member about a student's work, expressed in grades or other evaluations, is not within the scope of this right to challenge information.

To challenge his or her record, a student must submit a request to amend the record to the University official in whose area of responsibility the material is kept. The official may comply with the request and correct the material or the official may rule against changing the record. If the official decides not to comply, the student will be notified of the decision and advised of his or her right to a hearing to challenge the information believed to be inaccurate, misleading, or in violation of his or her rights.

The hearing must be held within three weeks of the request and the student notified of the time, date, and place in advance of the hearing.

The hearing will be conducted by a hearing officer who is a disinterested party. He or she may, however, be an official of the University. The student will be afforded a full and fair opportunity to present evidence relevant to the issues raised in the original request to amend his or her records. The student may be represented by an individual of his or her choosing, including an attorney (at the student's expense).

Within two weeks of the conclusion of the hearing, the hearing officer will prepare a written decision based solely on evidence presented at the hearing. The decision will include a summary of the evidence presented and the reasons for the decision.

If it is decided that the challenged information is not inaccurate, misleading, or in violation of the student's right of privacy, the University will notify the student that he or she has a right to place in the record a statement commenting on the challenged information and setting forth reasons for disagreeing with the decision. This statement will be maintained as part of the student's education records as long as the contested portion is maintained. If the University discloses the contested portion of the record, it must also disclose the statement.

Students have the right to file a complaint with the Department of Education concerning alleged failures of the University to comply with the requirements of FERPA.

ATTENDANCE POLICY

Attendance is expected in all courses. Attendance will be a component of the grade of any course if so stated in the syllabus. Students are responsible for informing the instructor in advance or in a timely manner of the reasons for their absence. Instructors in consultation with their executive directors/department chairs are expected to respect University practices and policies regarding what counts as an excused absence. Typically excused absences include illness, bereavement or religious observances. Serious tardiness may be dealt with at the discretion of the instructor.

Observance of a religious holiday is to be considered an excused absence from class for any student. If a student misses a scheduled examination or other announced assignment because of observance of a religious holiday, the student and instructor shall agree upon a mutually convenient time as an alternate date for completion of the assignment.

COURSE NUMBERING SYSTEM

Courses carrying 1000 and 2000 numbers are lower division offerings, usually appropriate for the freshman and sophomore years of undergraduate study. Courses numbered at the 3000 and 4000 levels are upper division offerings, usually appropriate for the junior and senior years of undergraduate study.

In general, the following course numbering system is applied (X=digit from 0-9):

0XXX	Developmental or supplemental level, providing foundations in basic skills, no degree credit granted.
1XXX	Introductory level, broad-based in nature, prerequisites usually not necessary.
2XXX	Intermediate level, the second course in a discipline, one prerequisite sometimes necessary.
3XXX-4XXX	Advanced levels, providing greater depth in a more defined area of scholarship, one or more prerequisites generally necessary.
5XXX	Graduate level.
6XXX	Graduate level.
7XXX	Graduate level
8XXX	Graduate level

ACADEMIC HONORS

Dean's List

Superior academic achievement is recognized by appointment to the Dean's List for undergraduate matriculated students. Each student awarded Dean's List honors receives a personal letter of congratulations; this academic achievement is also noted on the student's transcript.

Designation to the Dean's List is available to both full-time and part-time undergraduate matriculated students, according to the criteria given below.

Full-time students: The Dean's List is announced twice a year for full-time students, at the end of each fall and spring semester. To qualify, the student must be matriculated and must have earned a semester grade point average of 3.45 or better for at least 12 credit hours (not including courses taken on the pass/fail option). All courses completed in the semester must have been passed for earned credit. Any student with a grade of "Incomplete" cannot be considered eligible for the Dean's List.

Part-time students: The Dean's list is announced once a year for part-time students, at the end of each spring semester. To qualify, the student must be matriculated and must have earned a grade point average of 3.45 or better for the regular academic year (combination of fall and spring semesters only) for at least 12 credit hours (not including courses taken on the pass/fail option). All courses completed in the regular academic year must have been passed for earned credit. Any student with a grade of "Incomplete" cannot be considered eligible for the Dean's list.

Graduation with Honors

Students graduating with a cumulative grade point average of 3.45 or better, and who have completed a minimum of 45 semester hours at Kean (excluding credits earned on a Pass/Fail or a Satisfactory/Unsatisfactory basis) by the end of the first semester of their senior year are recognized with anticipated honors. Any candidate with a grade of "Incomplete" cannot be considered eligible for honors until the grade has been changed. The actual honors designation will appear on both the diploma and the final transcript.

Designations are as follows:

Average of 3.85-4.00	Summa cum laude
Average of 3.65-3.84	Magna cum laude
Average of 3.45-3.64	Cum laude

Students enrolled in Kean Ocean programs that do not offer the full 45 credits (which cannot include credits earned on a Pass/Fail or a Satisfactory/Unsatisfactory basis) at the Ocean County College location may request to substitute transfer courses with permission from their faculty advisor and as approved by the College Dean. Grades earned for the substituted courses will be used to determine honors eligibility (to satisfy the 45-credit requirement), but will not be included in the final cumulative grade point average or final honors designation. The final cumulative grade point average will be determined by credits and grades earned at Kean University (Kean Ocean) only.

Academic honors are awarded based upon completion of the final semester. In order to participate in the Commencement Ceremony with honors and be eligible to receive a gold tassel, the above requirements must be met by the end of the first semester of senior year (usually fall semester or end of winter break semester following fall semester).

Senior/Graduate Course Option

Matriculated seniors may, with the appropriate

approvals, enroll in one graduate course each semester of the senior year. Tuition is charged at the regular undergraduate rate. Credit earned will count either toward completion of baccalaureate degree requirements or, with prior approvals, including permission of the Dean of the Nathan Weiss Graduate College, may be applied toward a future graduate degree in the Nathan Weiss Graduate College. A grade of "B" or better is required for inclusion in a graduate degree. Please note: approval of a graduate course to be applied towards a future graduate degree does not imply acceptance into the Nathan Weiss Graduate College.

The *Permission for Undergraduate Student to take a Graduate Course* form is available online at: <http://grad.kean.edu/forms>

Honor Societies

Academic achievement is also recognized by election during the junior or senior year to one of the honor societies established at Kean. The qualified candidate will receive notification of eligibility and an invitation to membership directly from the local chapter of the sponsoring honor society.

Epsilon Epsilon Omega is a University honor society in all academic fields open to qualified EOC-EO/EOF juniors and seniors and to a limited number of graduate students. Its purpose is to recognize and promote outstanding academic achievement. (The Chapter was established in 1979; Paula Muindi is the Advisor.)

Lambda Alpha Sigma is a university wide honors recognition open to qualified juniors and seniors of all majors (Faculty Advisor – Craig Donovan).

Kappa Delta Pi is a national collegiate honor society in the field of education open to qualified members of the junior and senior classes and to a limited number of graduate students. Its purpose is to recognize sound scholarship, worthy educational ideals, commendable personal qualities and outstanding contributions to education. (The Chapter was established in 1938; Donna Strigari is the Advisor.)

Phi Kappa Phi is a national collegiate honor society in all academic fields open to qualified members of the senior class, and, to a limited extent, members of the junior class and graduate students. Its purpose is to emphasize scholarship and to stimulate achievement by the prize of membership. (The Chapter was established in 1977; Dr. Kristine Mirrer, President; Dr. Julia Nevarez, Past President.)

Departmental (Field of Study) Honor Societies

AeRho-Communication (Bill Kolbenschlager – Faculty Advisor)

Alpha Kappa Delta - The International Sociology Honor Society (Melodie Toby – Faculty Advisor)

Alpha Phi Sigma-Criminal Justice (Alexis Hayton – Faculty Advisor)

Alpha Psi Omega-Theatre (Teresa Choate – Faculty Advisor)

Beta Beta Beta-Biological Sciences (Nancy LaFleur – Faculty Advisor at Kean Ocean)

Chi Sigma Iota-Counseling (Allison Paolini – Faculty Advisor)

Iota Tau Alpha-Athletic Training (Gwen Cleaves – Faculty Advisor)

Kappa Kappa Psi – Music/Band (Thomas Connors – Faculty Advisor)

Lambda Pi Eta-Communication (Bill Kolbenschlager – Faculty Advisor)

Mu Kappa Tau- Marketing (Shweta Singh – Faculty Advisor)

Omicron Delta Epsilon-Economics (Benito Sanchez – Faculty Advisor)

Phi Alpha Theta-History (Elizabeth Hyde – Faculty Advisor)

Pi Alpha Alpha-Public Administration (Craig Donovan – Faculty Advisor)

Pi Sigma Alpha-Political Science (Larry Chang – Faculty Advisor)

Psi Chi-Psychology (Verneda Hamm Baugh – Faculty Advisor)

Sigma Beta Delta-Business, Management, and Administration (Janine Black – Faculty Advisor)

Sigma Delta Pi-Spanish (Gregory Shephard – Faculty Advisor)

Sigma Tau Delta-English (Nira Gupta-Casale – Faculty Advisor at Kean Union; Ruth Griffith – Faculty Advisor at Kean Ocean)

Sigma Theta Tau-Nursing (Jan Kaminsky – Faculty Advisor)

HONORS PROGRAM

The Kean University Honors Program is currently under curriculum revision. The new program will offer highly motivated students a General Education program that incorporates interdisciplinary courses and undergraduate research. The program will provide a unique opportunity to work closely with distinguished faculty and peers and to conduct independent research. Students will have an opportunity for advanced scholarship in a supportive yet challenging academic environment. The online catalog will be updated as the program develops.

Honors courses are available in the following disciplines: Biological Sciences, Earth Sciences, English, History, Music, Political Science, Psychology, Public Administration, and Sociology.

Departmental/Program honors courses offer challenge and reward to students who display exceptional ability and motivation. Graduates of Kean Honors have gone on to some of the nation's most prestigious master's and doctoral programs. Others have launched successful careers in many fields of endeavor.

Departmental advisors, as listed in this catalog, may be contacted for additional information.

KEAN - OCEAN

Contact information:

Location:
Gateway Building, Room 103D
College Drive
Toms River, NJ 08754
Phone: 732-255-0356
Fax: 732-255-0465
keanocc@kean.edu
koadmission@kean.edu
<http://www.kean.edu/keanocean>

The University also offers many baccalaureate degree-completion programs as well as complete graduate programs on the campus of Ocean County College (OCC) in Toms River. Established in 2006, this partnership with Ocean County College provides articulated degree plans by which students complete a course of study at OCC, earn an OCC associate's degree, then continue their studies on the OCC campus with Kean courses leading to a Kean bachelor's degree. These Kean Ocean programs are posted at <http://www.kean.edu/offices/kean-ocean-administration/undergraduate-programs>.

In general, Kean-Ocean operations follow all standard Kean University policies and procedures, which remain administered by their respective offices and authorities in Union. Exceptions to this pattern are noted in the coverage of any affected areas. Weather and emergency closing follow the Ocean County College delayed opening and cancellation announcements.

WENZHOU-KEAN

Contact information:

88 Daxue Rd, Ouhai, Wenzhou,
Zhejiang Province, China 325060
Phone: +86 577 5587 0000
Fax: +86 577 5587 0101
E-mail: wku@wku.edu.cn

Kean University is one of only three American universities approved to develop and operate a full-scale campus in China. Set on approximately 500 acres in the rural mountainous region outside of Wenzhou, Wenzhou-Kean University is a thriving, growing campus. The University offers an authentic American educational experience and extensive opportunities for international exchange. The site is accredited through Kean University by the Middle States Commission on Higher Education (MSCHE). All courses are taught in English by Kean faculty, and students will earn degrees issued by Kean University and Wenzhou-Kean University.

The campus anticipates an enrollment of approximately 1,600 full-time students by fall 2016. All costs for developing and operating the campus are financed by the Chinese partners. Wenzhou-Kean University provides an exceptional model of Sino-US cooperation in education.

CENTER FOR INTERNATIONAL STUDIES AND PROGRAMS

Contact information:

Location: CAS-121
908-737-0350
www.keaninternational.com
cis@kean.edu

The Center for International Studies (CIS) coordinates the activities of Kean University faculty, staff, and students that integrate international education into the University. Through its two divisions, the Office of International Students and Scholars (ISS) and the Education Abroad Office, CIS administers agreements for academic partnerships with foreign universities, supports study abroad, organizes Travelearn opportunities, and supports international students, scholars, and exchange visitors at Kean.

A major aim of CIS is to develop and administer agreements for academic partnerships with universities in other countries to promote mutual understanding. Kean currently maintains strong relationships with universities, colleges, and research institutions in Europe, South and Central America, Africa, the Middle East, and throughout Asia. Kean continues to develop collaborative relationships with institutions and universities around the world.

The Center's Education Abroad Office is responsible for the coordination of activities such as study abroad and Travelearn. Eligible matriculated students are encouraged to study abroad in over one hundred top universities in over 50 countries, allowing them to grow intellectually, develop intercultural communication skills, and improve foreign language skills. Students enroll in a full course of study and are eligible to apply these credits to meet Kean University degree requirements. Participants are also eligible to apply for financial assistance toward program costs. Application deadlines for spring semester study abroad are typically in mid-October of the preceding fall semester; application deadlines for summer and fall semester study abroad are typically in mid-March of the preceding spring semester. Travelearn programs offer participants the opportunity to combine academic study with short-term travel to sites and facilities overseas. The experience is enriched by lectures, readings, and other activities designed to provide student and non-student participants a broader and deeper appreciation of travel. Faculty coordinators are specialists in the fields of study related to each program and are acquainted with the cultural opportunities presented by the countries.

CIS also houses the Office of International Students and Scholars (ISS). The ISS provides international students with a wide range of programs and opportunities at Kean. International students are warmly welcomed at Kean and are integrated into the Kean Community during their stay in the United States. ISS is structured to assist foreign students in making successful transitions to Kean and life in the United States. International students confront unique requirements, and ISS helps guide and advise students through the proper procedures required to remain in good standing with immigration and to maintain

their status in the US. Additionally, ISS conducts orientations, helps with registration, practical training, reinstatement procedures, and academic issues while on campus. In addition, ISS provides services for visiting scholars and faculty from around the world. Whether visiting for a short-term or conducting research or teaching at Kean, the ISS is here to support the needs of our foreign visitors.

By coordinating academic partnerships, study abroad, Travelearn, and activities of foreign students and scholars, the Center for International Studies seeks to synchronize the academic and extracurricular international activities that enable Kean faculty, staff, and students to gain global and cross-cultural understanding. Ultimately, it is hoped that our efforts will generate a diverse group of alumni and others who will have a significant international experience and become better citizens, diplomats, ambassadors, policy makers, area specialists, and activists promoting a better world.

TEACHER EDUCATION PROGRAMS

A New Jersey teaching certificate may be earned with specific liberal arts majors at Kean University. (See Certification Program section)

CERTIFICATION PROGRAM

Undergraduate Teacher Certification Program

Undergraduate students working on their initial certification while obtaining the Bachelor of Arts degree are eligible to receive teaching certificates in: Early Childhood/P-3, Elementary Education K-6 (Dual Certification), Elementary Education/Middle School, Elementary Education/Bilingual and Bicultural, Elementary Education/Bilingual and Bicultural/Middle School, Art, English, Spanish, Health and Physical Education, Earth Science, Biological Science, Chemistry, Music, Mathematics, Social Studies, Theatre, Teacher of Students with Disabilities with options in P-3/Elementary Education/ Elementary Education with Middle School/ Biological Science/Chemistry/Earth Science/English/ Social Studies. (P-12 is also available).

Post Baccalaureate Teacher Certification Program

The Post Baccalaureate Teacher Certification Program is designed to permit individuals who already hold the baccalaureate degree to secure either an initial teaching certificate or additional teaching certificates. The following certificates are offered on the undergraduate level: Early Childhood (P-3 only), Elementary Education, Art, English, Spanish, Health and Physical Education, Earth Science, History, Bilingual/Bicultural Education, Speech and Theatre, Theatre, Biology and Chemistry, Mathematics and Music. Endorsement options in Middle School certification for Mathematics, Science, Social Studies, World Languages (Spanish), Language Arts are also offered. Contact the Office of Teacher Certification for more information on Middle School endorsements.

The Undergraduate Teacher Certification

Office is located in Hennings Hall, Room 214 (908) 737-3800.

ADMISSION AND RETENTION STANDARDS/TEACHER EDUCATION PROGRAMS

Admission

Students must be formally admitted to teacher education programs. Since criteria for admission to specific programs vary, students are urged to contact the Program Coordinator offering the program for specific admission information. Students must file an application for program admission with the Coordinator. Minimal criteria for admission are as follows:

- A cumulative grade point average of 3.0 or better from all institutions attended (Kean and transfer).
- Attainment of New Jersey Qualifying test scores on the Praxis Core Academic Skills for Educators.
- Competency in oral English communications as demonstrated by a minimum grade of "C" in COMM 1402, its equivalent or formal exemption.
- Competency in written English as demonstrated by a minimum grade of "C" in ENG 1030.
- Competency in mathematics as evidenced by a minimum grade of "C" in at least one University-level math course.
- Completion of Clinical Experience (Introductory) with a grade of Satisfactory.
- Students must file an application for admission with the Program Coordinator.
- Although students will not be formally admitted to teacher education programs until the satisfactory completion of the sophomore field experience, the programs are offered in a sequence which is best completed by starting in the freshman year.

If students do not score well on placement examinations, satisfactory completion of required developmental courses in writing, reading, and mathematics at Kean University is required.

Retention

Students will be evaluated at the end of the junior year prior to being confirmed as candidates for the instructional certificate. Students must maintain a grade point average of 3.0 or better and must demonstrate evidence of a proficient level of teaching.

New Jersey State Teaching Certificates

Certificates of Eligibility with Advanced Standing are issued by the State of New Jersey to students who have completed approved programs. These programs are available on the baccalaureate and post-baccalaureate level.

Students must complete all the program requirements including General Education, academic sequence, behavioral and social sciences, the professional sequence and must maintain a grade point average of 3.0 or better in order to receive certification.

Current New Jersey regulations for certification require that applicants for teaching positions complete a test requirement. Applicants for certification in Elementary K-6 and/or Early Childhood Education (P-3) must meet

New Jersey Qualifying Scores on Praxis II. Applicants for certification in subject teaching fields must pass the appropriate subject area section of the Praxis II exam. Students selecting a Middle School Certificate (5-8), must pass the K-6 Praxis II in addition to the Subject Area Praxis II.

Clinical Practice: Pre-Professional and Internship

Students in teacher education programs are required to complete the clinical Component: Clinical Experience (Introductory), Clinical Practice: Pre-Professional and Internship. This sequence is coordinated through the Teaching Performance Center (TPC). The TPC functions as a liaison between the University and public schools/agencies in placing students in classrooms/field sites for the clinical sequence.

Admission to Clinical Practice: Pre-Professional and Internship is by application only.

Prerequisites for Clinical Practice: Pre-Professional are: 3.0 GPA; Clinical Experience (Introductory); completion of 60 semester hours of coursework; prerequisites as determined by the department and program; New Jersey Substitute Certification; and negative Mantoux (tuberculosis) test.

Prerequisites for Clinical Practice Internships are: 3.0 GPA; Clinical Practice: Pre-Professional; completion of 95 semester hours of coursework; prerequisites as determined by the department of program; met New Jersey Qualifying Scores on the appropriate Subject Assessments test; New Jersey Substitute Certification; and negative Mantoux (tuberculosis) test. Students must enroll in the required co-requisite capstone course.

Clinical Practice: Internship is a full-semester five-days-a-week, full-time experience during which the Kean University student is required to be in the school full days for the entire semester and to plan, instruct, and assess. A student is required to follow the same schedule as his/her cooperating teacher/practitioner.

A teacher candidate who graduates after September 1, 2018 must take and pass edTPA as a New Jersey teacher certification requirement. The edTPA Performance Assessment will supplement the Praxis II Content Assessment, which assesses how well entry-level teachers know the content they are to teach. The edTPA assesses the pedagogical skills of a beginning teacher: the ability to plan, instruct, and assess P-12 students.

Clinical component applications are due February 1st for the following Fall semester or April 1st for the following Spring semester. Applications are available in the Teaching Performance Center, Hennings Hall, Room 215 (908) 737-3790.

The nine (9) semester hours assigned to the Clinical Practice: Internship along with the three (3) semester hours of the co-requisite capstone course (total of 12 credits) equate to a full semester credit load.

EDUCATIONAL OPPORTUNITIES CENTER (EOC)-EXCEPTIONAL EDUCATIONAL OPPORTUNITIES PROGRAM (EEO)/EDUCATIONAL OPPORTUNITY FUND (EOF)

Students whose potential for success in college cannot be identified by conventional criteria may apply for admission to Kean through the EEO/EOF Program. Intensive support services are provided to assist students with the academic and personal transition to college life. As an introduction and orientation to the University, EEO/EOF students attend a mandatory pre-freshman Summer Program immediately prior to the fall semester of the freshman year. The EEO/EOF Program offers special support services, including counseling/academic advisement, academic study skills workshops, career coaching, and individual and group tutoring sessions. The learning assistance and tutoring services are offered through the EOC Learning Center. These services begin with the pre-freshman Summer Program and continue during the student's enrollment at Kean.

The EEO/EOF Learning Center offers a full range of academic support and academic reinforcement services to students enrolled in the EEO/EOF Program. The Center is designed to assist students by providing professional and peer tutoring; academic study-skills workshops (i.e. test-taking, note-taking), computer assisted instruction; supervised study sessions; and small group tutoring/instruction.

The EEO/EOF Program awards Educational Opportunity Fund (EOF) State grants to EEO/EOF students who are financially eligible and to prior EOF-grant recipients who are admitted to Kean as transfer students. The program's main office is located in Willis Hall, Room 107. For additional information, call (908) 737-5380.

EDUCATIONAL OPPORTUNITIES CENTER (EOC)-PASSPORT PROGRAM

Freshman applicants seeking admission to Kean University who do not fully meet regular admission requirements, but who are determined to have potential to succeed academically, may be considered for the PASSPORT Program. Intensive counseling and academic support services are scheduled throughout the first two years of study. Admission to this program is at the discretion of the Office of Undergraduate Admissions. Freshmen are admitted for the fall semester only. The University expects that all applicants offered admission register for study for the semester immediately following acceptance.

Center for Academic Success (CAS)

The mission of The Center for Academic Success (CAS) is to integrate the learning support, career counseling and other academic services that Kean University students need. The CAS and its offerings are designed to help Kean University excel in educational access for its students and to increase the retention and persistence to graduation

rates for Kean University students.

The first priority for the CAS is providing a wide range of services geared toward creating a student-centered educational environment. The CAS houses the Office of Intervention and Retention, Career Development and Advancement, International Student Services, Veteran Student Services, Tutoring and Learning Support Services and the Writing Center.

The CAS values student advocacy and student learning support above all else. The CAS provides students with the means to reach their full potential in an interactive university setting.

The CAS serves as an academic support service center. All of the services can be obtained by first stopping at the CAS Desk in the front lobby of the Center for Academic Success building.

Contact information:

Location: CAS 108

908-737-0300

<http://www.kean.edu/offices/cas>

Staffed Information Desk: The CAS maintains an information/problem solving desk staffed during the hours the CAS is open. Our student and professional staff provide drop in services for students who can ask for information and referrals, get questions answered and problems solved. This service is available to all students at the University.

Undergraduate Four Year Graduation

Plan Library: The CAS maintains an online library of four-year plans for all undergraduate major programs at Kean. These four-year graduation plans or maps streamline and improve advising at Kean by serving as a semester-by-semester guide for students, showing them the courses they need to take to graduate in four years. Combined with the curriculum guide sheets and KeanWISE program evaluation, the four-year plans are used to guide students through to graduation.

The four-year plans are available through the CAS website <http://www.kean.edu/offices/cas> as well as in person at the CAS.

Undergraduate Curriculum Guide Sheet

Library: The CAS maintains online both an up-to-date library and an archive of all guide sheets that list the complete curriculum for each of the undergraduate major programs. The guide sheets are available through the CAS website <http://www.kean.edu/offices/cas> as well as in person at the CAS.

ACADEMIC AND INSTRUCTIONAL MENTORS (A.I.M.'S) PROGRAM

A key component of the CAS is its para-professional student staff known as Academic and Instructional Mentors (A.I.M.'s). These are carefully selected students who reflect and are representative of the student population they serve. They receive extensive training to meet the needs of both new and continuing students. Additionally, they help mentor new students and introduce them to the University's

academic and student support services, and refer students to the appropriate offices on campus where they can receive help.

A.I.M.'s also provide tutoring and learning support, helping students learn study skills and strategies. They also have the opportunity to work in each of the divisions of the CAS and with its staff, as well as providing opportunities to represent the University and its student body at many of the events and activities held on campus.

THE DIVISIONS OF THE CAS

The divisions of the CAS are summarized below.

CAREER DEVELOPMENT AND ADVANCEMENT

The mission of the Office of Career Development and Advancement is to help students and recent graduates of Kean University identify and fulfill their career goals. By providing comprehensive resources, programs, and counseling on career development, employment, and graduate school, Career Development and Advancement assists students and recent graduates to make career decisions, connect with employers, and attain their professional goals.

Principles of service include: value each individual as unique and part of a diverse and inclusive community; provide undergraduates, graduate students, and recent graduates with caring, customized service, individualized to meet the changing needs of students and the job market; participate in a wide range of partnerships with employers, campus and local communities, and academic and administrative departments to enhance the development of students; employ the best tools - both human and technological - to maximize the accessibility and effectiveness of our services.

Contact information:

Location: CAS 123

908-737-0320

<http://www.kean.edu/~career/>

Career Development and Advancement services are personalized and serve to empower students at each stage of their career development, from new students to graduating students. The services available include:

Workshops (held in CAS 118-120): Students have the opportunity to attend workshops in the following areas: Resume Writing; Interview Preparation; Job Search Skills; How to Choose a Major.

Individualized Career Counseling: Students have the opportunity to meet with a Career Counselor one-on-one, to discuss their own situations and career questions. These services are available by appointment or by dropping in (if the Career Counselors are not already scheduled for an appointment).

Internship opportunities: Students have an opportunity to find internship opportunities related to their major/career choices.

Resume/Cover Letter Critiquing: Students have the opportunity to drop in or make an appointment to discuss their resume/cover letter with

a Career Counselor. Students may also drop off or submit electronic copies for review.

Mock Interviews: After attending the Interview Preparation Workshop, students can make an appointment for a practice interview with a Career Counselor. At the student's request, this session may also be video taped.

The Career Development and Advancement Computer Laboratory and Resource Library:

Students can research careers, learn more about the job search process, and obtain information about graduate schools by utilizing: computer software programs and web resources; books; periodicals; career files; audiovisual materials; and job listings (including the Job Opportunity Database consisting of daily job openings from employers, the New Jersey Business Directory, College Central and the NJ Employment One Stop Career).

On-Campus Recruitment Opportunities: The CAS staff organizes a variety of opportunities for students and alumni to speak with recruiters from potential employers throughout the tri-state area. These events include: Career Days; Teacher Job Fairs; Summer Job Fairs; Business Careers Job Fair; Science Careers Job Fair and frequent, periodic single employer Table Recruitment Opportunities.

Interest/Personality Tests: Tests are available for students and alumni looking to increase their awareness of their own interests, values and personality traits. Career Development and Advancement offers both written and computer tests.

Additional Career Development and Advancement Services: In addition to one-on-one work with our students, the CAS also provides employers with responsive services to meet their recruiting needs and to make the task of identifying and interviewing qualified candidates simple and effortless. This atmosphere of excellence gives employers the opportunity to interview and hire qualified, experienced, and well prepared candidates for challenging careers.

ORIENTATION AND REGISTRATION SERVICES

Contact information:

Location: CAS 124

908-737-0300

<http://www.kean.edu/offices/cas>

The mission of Orientation and Registration Services is to help equip new students to think critically, creatively, and globally and to adapt to their new Kean University environment. In conjunction with the University's Transition to Kean course, New Student Orientation is designed to help new students become active members of the Kean community and allow for a smooth transition from high school to college life.

Among the services provided are:

Initial Advisement and Registration of New Freshmen: Prior to enrolling at Kean, each new freshman is invited to attend an initial registration and advisement session. CAS and

School of General Studies professional and student staff utilize major curriculum guidesheets and four-year graduation plans, as well as individualized pre-advisement packets and placement test results (if applicable) to advise students and help them prepare their first-semester schedules.

Family Orientation: Presentations for the families of new freshmen at Kean are held concurrently with the initial advisement and registration sessions for the freshmen. Family members are given a general orientation to the University, and provided with information packets, presentations on services available to students and their families, and guidance on transition-to-college issues. Ample time is given to answer any questions the family members may have and to make any necessary referrals to offices on campus.

New Student Orientation: Orientations for all new undergraduate students entering Kean University are conducted prior to each fall and spring semester. A day-long program is mandatory for freshmen. An orientation event for new transfers is also offered. Orientation programs feature welcoming remarks from the President, officers of the University and student leaders and include activities that highlight campus services and opportunities.

As part of the day-long freshman orientation event, nationally-known educational motivators conduct interactive workshops focused on success strategies and transitioning to college life. Additionally, freshmen spend the day with their GE 1000 class along with their instructor and General Education Mentor (G.E.M.) (see School of General Studies for more information about G.E.M.'s).

Orientations for new transfer students include presentations and information sessions focused on academics, student services and transition issues.

TESTING AND COURSE PLACEMENT:

Contact information:

Location: CAS 212

Testing Lab: CAS 207

Testing Hotline: 908-737-0340, <http://placementtest.kean.edu>

The CAS conducts the placement testing of incoming freshmen and freshmen-level transfer students prior to registering for classes. These students are required to take the ACCU-PLACER® Computerized Placement Tests in reading, writing and mathematics unless they are notified that they have been exempted from all or part of this testing due to their SAT scores. Freshmen-level transfer students are also required to take these placement tests, unless their prior college course-work or SAT scores justify exempting them from all or part of testing. The criteria used for SAT exemption is as follows:

- Students with **SAT-Critical Reading** (Verbal) scores of **520** or higher (on the former SAT) or scores of **480** or higher on the Evidence-based Reading & Writing section of the Redesigned SAT are exempt from

the reading portion of the test (i.e., the *Reading Comprehension* section).

- Students with **SAT-Writing** scores of **520** or higher (on the former SAT) or scores of **480** or higher on the Evidence-based Reading & Writing section of the Redesigned SAT are exempt from the writing portion of the test (i.e., the *Essay* section).
- Students with **SAT-Math** scores of **530** or higher (on either SAT test) are exempt from the math portion of the test (i.e., the *Elementary Algebra* section).
- Students with SAT-Critical Reading (Verbal) scores at least **520**, and SAT-Writing scores of at least **520** on the former SAT (or scores of at least **480** on the Evidence-based Reading & Writing section of the Redesigned SAT) and SAT-Math scores of at least **530** (on either SAT test) are exempt from all of the parts of the test indicated above. Students with a 23 Composite ACT score are also exempt from placement testing.
- Students exempt from the *Elementary Algebra* section who are planning to major in accounting, business, economics, finance, management, marketing, mathematics, computer science, or other applied or natural science, or who have applied/been accepted into the NJCSTM Program, are also required to take the *College Level Mathematics* section of the test. The CLM is used to determine preparedness for higher-level math courses such as *Pre-Calculus* and *Calculus*. Students not majoring in these areas are encouraged (but not required) to take the CLM.

The purpose of placement testing is to determine incoming students' levels of proficiency in reading, writing and mathematics. The initial course placements of incoming freshmen are individualized in order to maximize each student's potential for academic success.

Although Kean University does not have a Foreign Language requirement, students who have previously studied FRENCH, GERMAN, or SPANISH in high school and plan to continue studying that language, are required to take the Web-CAPE Foreign Language Placement Exam to determine appropriate placement.

INTERNATIONAL STUDENT SERVICES

Contact information:

Location: CAS-121

908-737-0350

www.keaninternational.com

cas@kean.edu

The mission of the office of International Student Services (ISS) is to ensure a smooth transition for students studying abroad. ISS is housed under the Center of International Studies and it provides international students with a wide range of programs and opportunities at Kean. Our students receive information with respect to immigration status, finance, and social interaction before and while at the University. International students and scholars, their dependents, and their sponsors are provided with knowledge and guidance to support

their time at Kean. As a result, international students and scholars become important and contributing members of the Kean Community during their stay in the United States.

ISS is structured to assist foreign students and scholars in making successful transitions to Kean University and life in the United States. International students and scholars confront unique requirements, and ISS can help guide and advise visitors through the proper procedures required to remain in good standing with immigration and to maintain their visas. Additionally, ISS provides orientations for all new international students and scholars and helps with registration, practical training, reinstatement procedures, and academic issues. Counselors are available who can offer assistance, advisement and referral to the appropriate on-campus office when necessary.

OFFICE OF INTERVENTION AND RETENTION

Contact information:

Location: CAS 122
908-737-0323
<http://www.kean.edu/offices/cas>

The mission of the Office of Intervention & Retention (OI&R) is to provide leadership for the University's retention efforts by engaging at-risk students and teaching them the skills and dispositions needed for success. OI&R is committed to creating a sustainable culture of active engagement of students, especially those that have demonstrated academic need.

OI&R will encourage a culture that is student-centered, one that facilitates and celebrates individual success. We will advance models, practices and policies that improve degree completion and persistence. OI&R will lead University training efforts to engage at-risk students. Finally, OI&R is dedicated to advancing a culture of assessment by engaging in data-driven activities. The targeted groups include: first year (freshman) students, undecided/undeclared students, students on academic probation, special admitted populations of students, and students reinstated from academic dismissal. Some of the services offered by this division include:

Administering and Convening the University Academic Dismissal Appeals Committee: This committee, which has faculty representation from each college, along with student representation, evaluates student appeals, and makes recommendations to the appropriate dean regarding students' dismissal. The final decision on reinstatement is made by the appropriate college dean. The centralization of this function in the CAS and coordination with academic advisement, tutoring, and learning support services, will enhance reinstated students' chances for success. For more information contact Mrs. Jean Brown, brownj@kean.edu, 908-737-0311.

Counseling of Students Probation and Reinstated from Academic Dismissal: Intensive counseling and other assistance is provided to reinstated students through the *Step-it-Up Program* for students on academic probation or reinstated from academic dismissal.

Academic Monitoring and Counseling: OI&R monitors the academic progress for undergraduate students at Kean. Additional specialized monitoring for all first year students is provided through the Early Warning program in the Transition to Kean class.

TUTORING AND LEARNING SUPPORT SERVICES

Contact information:

Location: CAS 111
908-737-0300
<http://www.kean.edu/offices/cas>

The mission of Tutoring and Learning Support Services is to provide the necessary academic support services to help Kean's socially, linguistically, and culturally diverse students reach their full potential. Services provided enable Kean students with varying background experiences and levels of academic preparation to gain mastery and achieve excellence.

The primary focus of Tutoring and Learning Support Services is to provide tutoring across the curriculum, with an emphasis on those courses for which help is most often requested (such as math, science and business courses) and on the foundational General Education courses that are mandatory for all students. Students at all skill levels are encouraged to use its services in order to maximize their performance potential.

Among the services offered are:

Tutoring: Tutoring is available by appointment and on a drop-in basis. Tutoring sessions are one to one or in groups. The CAS selects and trains both student tutors and professional tutors. Tutoring is offered in a wide range of undergraduate courses, with an emphasis on those areas in which students most often experience difficulty, from introductory-level courses through senior-level courses. The tutorial activity is adapted to course content and objectives, so that it is an extension and elaboration of classroom instruction. The goal is to provide all students the opportunity to achieve the highest grade possible and also to master the academic content needed to progress in their academic careers.

Other Learning Support: Tutoring and Learning Support Services also works closely with other programs, such as Disability Services, the Spanish Speaking Program, and the English as a Second Language Program to assist student populations with specialized needs.

Kean Ocean students can receive some tutoring services in the Gateway Building, as well as additional assistance through the OCC Writing and Tutoring Centers. For additional information on how to access these services, please contact the Kean Ocean Administrative Office, Gateway 103, 732-255-0356.

Communication Speech Lab: The Communication Speech Lab is co-sponsored by the Communication Department and the CAS to assist students in oral presentations. Tutorial services are provided as a University service. Coaches are available by appointment, which can be made in CAS 414. Students can receive coaching for a class or improving their articulation and delivery skills for the workplace.

Kean University Writing Center (KUWC): The primary mission of the KUWC is to support the diverse writers who make up our student body, faculty, and staff. The KUWC fosters best practices in the teaching of writing across the disciplines, and serves as a center for writing research in a state of the art facility designed to foster and facilitate effective writing. On-line scheduling of appointments, as well as drop-in sessions and workshops are provided during the fall and spring semesters. For the most up to date information see the KUWC website: <http://www.kean.edu/writingcenter>

VETERAN STUDENT SERVICES

Contact information:

Office of Veteran Student Services (OVSS)
CAS 208
908-737- 0367
<http://cas.kean.edu/veterans/>

The OVSS is committed to serving: the Veteran students of the Armed Forces of the United States and their dependents; the Kean community; and the surrounding community. This office will accomplish this mission by providing exceptional services where the student is always first.

This involves serving as a veteran's liaison with other offices at Kean (Financial Aid, Registrar, Student Accounting, Residence Life, etc.) as well as with governmental agencies (Department of Veteran's Affairs, N. J. Approving Agency, U. S. Department of Education, etc.) in order to serve the needs of this specialized student population. Veteran Student Services supports Kean University's dual mission of excellence and access, while fostering a student centered environment for veterans.

Kean Ocean students have a part-time Veteran liaison available in Gateway Room 316. For additional information on how to contact the liaison, please contact the Kean Ocean Administrative Office, Gateway 103, 732-255-0356.

College of Business and Public Management

The College of Business and Public Management prepares men and women for leadership positions in the private, public and non-profit sectors. The College has four academic Schools: Accounting and Finance, Criminal Justice and Public Administration, Global Business, and Management and Marketing; and offers undergraduate degree programs in Accounting, Criminal Justice, Finance, Global Business, Management, Marketing and Public Administration. The faculty, staff and students all participate in creating a supportive academic environment.

The College has developed sample four year graduation plans for academic advisement purposes that can be accessed from the University website at

<http://www.kean.edu/offices/cas/guidesheets>

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-business-public-management>

Dean's Office:

GLAB-228, (908) 737-4700

Dean, Dr. Michael Cooper

Associate Dean, Dr. Geoffrey Mills

Associate Dean, Dr. Cao Jiang

Assistant Dean, David Farrokh

Manager of Global Initiatives, Paul Goncalves

Professional Services Specialist, Ivonne McPherson

Administrative Assistant, Maria Alonso

Director of Internships, JoAnne Beiter

GLAB-240, (908) 737-4706

School of Accounting & Finance

Executive Director: TBD

Coordinator (Accounting): Dr. David Yamoah

Coordinator (Finance): Dr. Benito Sanchez

School of Criminal Justice and Public Administration

Executive Director: Dr. James Drylie

Coordinator (Criminal Justice): Dr. Patrick McManimon

Coordinator (Public Administration): TBD

School of Global Business

Associate Dean: Dr. Geoffrey Mills

School of Management and Marketing

Executive Director: Dr. Shanggeun Rhee

Coordinator (Management): Dr. Janine Black

Coordinator (Marketing): Dr. Valerie Vaccaro

ACADEMIC DEGREES, PROGRAMS

B.S. in Accounting

B.S. in Finance

B.A. in Criminal Justice

B.S. in Global Business

B.S. in Management

Entrepreneurship Option

General Business Option

Supply Chain and Information Management Option

Management of Organizations Option

B.S. in Marketing

B.A. in Public Administration

JOINT OR COMBINED PROGRAM

B.A./M.P.A. Public Administration

MINORS

Accounting

Criminal Justice

Finance

Management

Marketing

Public Administration

FACULTY

Accounting

Bornstein, Capone, Daniels, Hader, Hughes,

Schader, Serrano-Garcia, Wailoo

Wenzhou-Kean: Atkins, Lewis, Lo,

Vaalentino, Rahman, Warsaw

Criminal Justice

Barbella, Drylie, Hassett-Walker, Hayton,

Lateano, Linhares, McManimon, Miele, Segars

Finance

Le, Mao, Sanchez, Yamoah

Wenzhou-Kean: Black, Lerner, McCoskey

Mousavi, Prentis, Quarles

Global Business

Lim

Management

Abraham, Black, Fenster, Fraser, Hiraoka,

Kim, Lim, Melworm, McGill, Rhee,

Sakchutchawan, Wang

Wenzhou-Kean: Adisu, Chen, Cho, Choi,

Droege, Herrington, Igoni, Ma,

Mansumittrchai, Tsakalerou

Marketing

Ahlawat, Han, Lemel, Singh, Vaccaro

Wenzhou-Kean: Ho

Public Administration

Donovan, Erickson, Farahi, Jeong, Laury,

Lulejian, Moore

COURSE SCHEDULING FREQUENCIES

At the end of the course description is a code in parenthesis that indicates the frequency the course is offered to assist students in planning their registration.

Key:

E = Every Semester

FA = Every Fall

SP = Every Spring

FE = Fall, Even Years

SE = Spring, Even Years

FO = Fall, Odd Years

SO = Spring Odd Years

E3 = Every Third Semester

WS = Every Winter Session

SSI = Every Summer Session I

SSII = Every Summer Session II

SSIE = Summer Session I, Even Years

SSIO = Summer Session I, Odd Years

SSIIIE = Summer Session II, Even Years

SSIIIO = Summer Session II, Odd Years

Accounting

School of Accounting & Finance

Executive Director: Dr. Veyse Yucetepe

Coordinator for Accounting: Dr. David Yamoah

Coordinator of Finance: Dr. Benito Sanchez

Accounting is the study of how an organization records financial transactions and analyzes and communicates the results of such transactions. It studies the standard accounting financial statements and seeks to analyze the entity's operating results and discusses ways in which various users can utilize accounting information. The program offers a B.S. Degree in Accounting, and a Minor in Accounting. The program looks to both the business and not-for-profit sectors of the community. The four year BS in Accounting program will prepare students for entry level positions in accounting. Graduates of this program are eligible to sit for the Uniform CPA examination, however 150 credit hours are required to apply to be licensed as a CPA.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-business-public-management>

B.S. DEGREE IN ACCOUNTING

(Program for students admitted beginning September 1, 2014)

Admission Requirements

Conditions for acceptance into the BS in Accounting Program are as follows:

- 1) A GPA of 3.0 or higher on 30 or more completed semester hours. If fewer than 30 semester hours have been completed at Kean, GPA will be calculated using coursework from all transfer institutions attended.
- 2) Grade of B or better in both ACCT 2200 Principles of Accounting I and ACCT 2210 Principles of Accounting II, respectively.
- 3) Complete the **Foundation Coursework with a grade of 'C' or better,**

ENG	1030	College Composition	
COMM	1402	Speech Communication as Critical Citizenship	
MATH	1044 OR MATH 1054	Pre-Calculus	
GE	2021	Research & Technology	
Additional courses to be completed with a grade of 'C' or better to declare major:			
ECO	1020	Principles of Economics I (Macroeconomics)	
ECO	1021	Principles of Economics II (Microeconomics)	
CPS	1032	Microcomputer Applications	
MGS	2150	Business Statistics & Applications	

GENERAL EDUCATION 35

FOUNDATION REQUIREMENTS 13

GE	1000	Transition to Kean*	1
OR			
GE	3000	Transfer Transitions*	1

ENG	1030	College Composition (Minimum C Grade)	3
MATH	1044/1054	Pre-Calculus	3
COMM	1402	Speech Communication as Critical Citizenship	3
GE	2021	Research & Technology	3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION

REQUIREMENTS:

Humanities		6
ENG	2403 World Literature**	3
AND		
(select one course from the following areas)		
Fine Arts or Art History		3
Philosophy or Religion		3
Foreign Languages		
(Must take I and II for credit)		3
Music or Theatre		3
Interdisciplinary ID 1300 or ID 3230		3
Social Sciences		6
HIST	1062 Worlds of History **	3

AND

(select one course from the following areas)			
Psychology		3	
Political Science		3	
Sociology or Anthropology		3	
Interdisciplinary ID 2415		3	
<i>Science & Mathematics</i>		7	
CPS	1032	Micro Applications	3
AND			
(select one of the following lab sciences)			
Biology, Chemistry or Physics, Astronomy			
Earth Science, Geology, or Meteorology		4	

ADDITIONAL REQUIREMENT 12

ECO	1020	Principles of Economics I	3
ECO	1021	Principles of Economics II	3
ENG	3090	Business and Tech. Writing	3
COMM	3590	Business and Professional Communication	3

MAJOR/GE CAPSTONE COURSE* 3**

MGS	4999	Integrative Business Strategy	3
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MAJOR REQUIREMENTS *67**

Business Core Courses				34
MGS	2030	Principles of Management		3
ACC	2200	Principles of Accounting I		3
ACC	2210	Principles of Accounting II		3
BLAW	2051	Business Law I		3
MGS	2150	Business Statistics and Application		4
MKT	2500	Principles of Marketing		3
MGS	3110	Managerial Decision Modeling		3
MGS	3520	Bus Ethics & Corp Resp		3
FIN	3310	Corporate Finance I		3
MGS	3040	Mgt Info Systems		3
MGS	4010	Operations Management		3

Accounting Major Required Courses			27
ACCT	2232	Computerized Acc Systems	3
ACCT	3210	Intermediate Accounting I	3
ACCT	3220	Intermediate Accounting II	3
ACCT	3230	Federal Income Taxes I	3
ACCT	3231	Federal Income Taxes II	3
ACCT	3240	Cost Accounting	3
ACCT	4210	Advanced Accounting	3
ACCT	4270	International Accounting	3
ACCT	4990	Auditing	
BLAW	3052	Business Law II	3
Accounting or Finance Electives			6
Accounting Elective			3
Accounting or Finance Elective			3

FREE ELECTIVES: 10

At least 50% must be at 3000 level or above.

TOTAL 124

Special Notes:

*University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

**General Education required course

***Courses required by major, all require a grade of C or better

Writing Emphasis Requirement

All students are required to complete one "Writing-Emphasis" course. The "W-E" course must be within the major portion of your program. Consult your major advisor.

Foreign language Credit

The three credits for a foreign language that may satisfy the GE Disciplinary/Interdisciplinary Distribution Requirement is awarded only upon successful completion of two semesters of study at the introductory or intermediate level.

MINOR IN ACCOUNTING

The following requirements are subject to change. Please check with the School of Accounting & Finance for current requirements and eligibility for the Minor in Accounting.

REQUIREMENTS 21

ACCT	2200	Principles of Accounting I	3
ACCT	2210	Principles of Accounting II	3
FIN	3310	Management of Corporate Finance I	3
ACCT	3210	Intermediate Accounting I	3
ACCT	3220	Intermediate Accounting II	3
ACCT	3230	Federal Income Taxes I	3
ACCT	4210	Advanced Accounting	3

Notes:

Students will be required to complete the following General Education courses before

choosing the Minor in Accounting: MATH 1044 or MATH 1054 (Precalculus), ECO 1020 (Principles of Macroeconomics) and ECO 1021 (Principles of Microeconomics).

Courses used for the minor must be taken on a letter-grade basis and earn a 'C' or better.

ACCOUNTING COURSES

ACCT 2200 Principles of Accounting I (3)

This course is an introduction to accounting concepts and principles used in the preparation of financial reports of proprietorships, partnerships and corporations. It involves the application of the techniques of debit and credit, the use of the trial balance, adjusting entries, and the analyses of key categories of the financial statements such as cash, accounts and notes receivables, inventories and long-term assets. (E)

Prerequisite: MATH 1044/1054

ACCT 2205 Principles of Managerial Accounting (3)

This course introduces accounting theory and practice for managers in the private sector, namely cost measurement and control, cost-volume-profit analysis, budgeting, and short-term business decision-making. This course is intended for students majoring in Management Science. It is not acceptable for credit for Accounting majors.

Prerequisite: ACCT 2200

ACCT 2210 Principles of Accounting II (3)

This course continues the topics of instruction introduced in Acct 2200. It builds on the skills developed for the preparation of financial statements including reporting and analysis of liabilities, stock holders equity, and investments. Additional topics will include the preparation of the statement of cash flows, and some managerial accounting concepts. (E)

Prerequisite: ACCT 2200

ACCT 2232 Computerized Accounting Systems and Procedures (3)

This course applies computerized methods to the design and operation of accounting systems, in addition to using the computer to assist with accounting computations, primarily through the use of electronic spreadsheets and commercial accounting programs. The course also instructs the student on other computerized aspects of accounting and related business procedures. (E)

Prerequisite: ACCT 2210/CPS 1032

ACCT 3210 Intermediate Accounting I (3)

This course involves the detailed analysis of various balance sheets and income statement accounts, enhancing the study of financial statements for internal management purposes as well as a reporting tool. The course also will address alternative concepts that may be advanced by professional organizations and societies. (E)

Prerequisite: ACCT 2210

ACCT 3220 Intermediate Accounting II (3)

This course continues the topics of instruction introduced in Acct 3210. (E)

Prerequisite: ACCT 3210

ACCT 3230 Federal Income Taxes I

The student is introduced to the basic tax law regarding individual income tax issues. The student is also introduced into the mechanics of the preparation of income tax returns. (FA, SP)

Prerequisite: ACCT 2210

ACCT 3231 Federal Income Taxes II (3)

This course is a continuation of Acct 3230. This course will also introduce issues related to capital transactions, corporations, and partnerships. (FA, SP)

Prerequisite: ACCT 3230

ACCT 3240 Cost Accounting (3)

This course involves the study of management accounting systems and the controllership function, as performed by the typical corporate controller in his role as a key member of the management group in a private business corporation. (FA, SP)

Prerequisite: ACCT 3210

ACCT 3280 Government and Fund Accounting (3)

This course concentrates on fund accounting for government, schools, hospitals and other not-for-profit organizations. The course also covers the analysis of these financial statements. (FA)

Prerequisite: ACCT 3210

ACCT 3520 Ethics & Professional Standards

The primary objective of this course is to emphasize the standards conceived for the American capital markets and American accounting firms. The course will focus on the development of a practical understanding of ethical issues and the practical skills required to deal with issues pertaining to the capital markets and accounting firms.

Prerequisite: ACCT 2110

ACCT 3350 Introduction to Forensic Accounting and Fraud Examination

The objective course provides an introduction to forensic accounting and fraud examination, using a process-oriented approach. This means that fraud investigation is presented as an organized sequence of steps. This is different from the taxonomy-based approach which focus on classifying fraud investigation methods.

Prerequisite: ACCT 3220

ACCT 3355 Fraud Prevention and Investigation

This course provides and understanding of the various types of fraud applications, including occupational fraud and non-occupational fraud. The course also contains elements of forensic accounting services and the development of antifraud techniques and aspects of fraud prevention. It covers risk assessment, the analysis of internal control systems, tax and valuation fraud situations, determining fraud risk exposure and the use of a fraud prevention scorecard.

Prerequisite: ACCT 3220

ACCT 3700 Accounting for Sustainability(3)

This course covers the measurement, reporting, and disclosure in financial statements of sustainability strategies adopted by for profit, not for profit, NGO, and governmental agencies.

Prerequisite: ACCT 2200

ACCT 4110 Independent Study in Accounting (3)

An individualized plan for study, focusing on the Accounting aspect(s) of an organization. The Independent Study Course may consist of, but not limited to a research effort, analytical writing or extensive reading.

Prerequisite: ACCT 3220

ACCT 4210 Advanced Accounting (3)

The student is exposed to the practical accounting applications related to such topics as partnerships, joint ventures, estates and trusts, consignments, installment sales, businesses in financial distress, agency and branch accounting, consolidations, and foreign exchange reporting issues. (FA, SP)

Prerequisite: ACCT 3220

ACCT 4245 Accounting Information System (3)

The first objective and core coverage of this course is on the evaluation of the design and operating effectiveness of an organization's accounting information systems. Specifically, its system of processes, transaction cycles and internal controls. The second objective is to build your understanding of information technology; its management, its direction of evolution, and the role it plays inside an organization.

Prerequisite: ACCT 2210

ACCT 4270 International Accounting (3)

This course introduces the principles of international accounting and the various issues surrounding these principles. The course will emphasize the differences between national accounting practices, methods of international currency translations, and other techniques used in comparing accounting data from different countries. (FA, SP)

Prerequisites: ACCT 3220 and 4210 (which may be taken concurrently with 4270)

ACCT 4350 Comprehensive Issues in Forensic Accounting and Fraud Auditing

This course examines fraud and the tools to investigate issues of fraud and professional ethics. It teaches the essential techniques of fraud examination through the use of real life examples. The student will understand the framework of specific rules related to the auditing and accounting profession in regard to auditing assets, liabilities, revenue and related party transactions utilizing computerized auditing procedures.

Prerequisite: ACCT 3220, ACCT 3350

ACCT 4355 Legal Principles and Processes in Forensic Accounting

This is an advanced accounting course with the objective of studying the legal environment as it pertains to fraud. This course focuses how fraud examination is applied in both the civil and criminal contexts. This course stresses the importance of utilizing evidence in the court following the Federal Rules of Evidence. The course encompasses an overview of accounting, auditing, psychology, criminology, and litigation support and courtroom procedures and procedural approaches.

Prerequisite: ACCT 3220, ACCT 3350

ACCT 4803-4806 Cooperative Education:**Accounting (3-6)**

The student will work off-campus with a company on a project supervised by an accounting faculty member. The project will emphasize the practical applications of accounting procedures and principles, in addition to corporate and individual tax preparation situations. Students may take a maximum of six (6) credits in coop education in their major. (E)

Prerequisites: Juniors and seniors majoring in Accounting subject to approval by the faculty coordinator.

ACCT 4990 Auditing Financial**Statements (3)**

Auditing is a fundamental discipline in Accounting and the foundation for the Certified Public Accounting designation. This course will serve to integrate the knowledge students gain in prior accounting and business-related courses such that they can apply this knowledge to understand the discipline and objectives of auditing and how the business and regulatory environment have lead to the development of auditing standards. (FA, SP)

Prerequisite: ACCT 3220

BUSINESS LAW COURSES**BLAW 2051 Business Law I (3)**

The basic legal principles that apply to the areas of law and society, contracts, agency, and employment, partnerships, corporations. Consideration of the relevant statutes and adjudicated cases which give the student a grasp of the legal risks and results incident to common business relationships and transactions. (FA, SP)

BLAW 3052 Business Law II (3)

The basic legal principles that apply to the areas of personal property, sales, security devices, commercial paper, estates and bankruptcy. The basic legal principles which apply to the areas of anti-trust law, accountant's liability, employment law, trust and estates. (FA, SP)

Prerequisite: BLAW 2051

BLAW 4060 International Business Law (3)

An introduction to the law pertaining to international business transactions and economic relations. The course will emphasize United Government and international regulation of transnational business transactions.

Prerequisite: BLAW 2051

Finance

Coordinator: Dr. Benito Sanchez

Finance is a field that considers how businesses raise, spend and invest capital; how firms and individuals allocate their resources among investment alternatives; and how financial markets function. The department offers a B.S. Degree in Finance and a Minor in Finance. The Finance major is introduced to the basic structure, processes, institutional framework and theories of finance. Courses in finance prepare the student for corporate and public sector employment as well as graduate work in economics, finance, management, and law. All finance majors are urged to seek faculty advisement.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-business-public-management>

B.S. DEGREE IN FINANCE

(Program for students admitted beginning September 1, 2014)

ADMISSION REQUIREMENTS

Condition for acceptance into the BS in Finance Program is 1) a GPA of 2.50 or higher on 30 or more completed semester hours. If fewer than 30 semester hours have been completed at Kean, GPA will be calculated using coursework from all transfer institutions attended.

2) Complete the **Foundation Coursework** with a grade of 'C' or better,

ENG 1030 College Composition

COMM 1402 Speech Communication as Critical Citizenship

MATH 1044 OR MATH 1054 Pre-Calculus

GE 2021 Research & Technology

Additional courses to be completed with a grade of 'C' or better to declare major:

ECO 1020 Principles of Economics I (Macroeconomics)

ECO 1021 Principles of Economics II (Microeconomics)

CPS 1032 Microcomputer Applications

ACCT 2200 Principles of Accounting I

MGS 2150 Business Statistics & Applications

GENERAL EDUCATION REQUIREMENTS

35

FOUNDATIONS REQUIREMENTS

13

GE 1000 Transition to Kean*

1

OR

GE 3000 Transfer Transitions*

1

ENG 1030 College Composition (Minimum C Grade)

3

MATH 1044 or 1054 Pre-calculus

3

COMM 1402 Speech Comm. As Crit. Cit.

3

GE 2021 Research & Technology

3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 6

ENG 2403**World Literature 3

AND

(Select ONE course from the following areas:)

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theater 3

ID 1300 or ID 3230 3

Social Sciences 6

HIST 1062 Worlds of History** 3

AND

(Select ONE course from the following areas, see approved Distribution Course List:)

Psychology 3

Political Science 3

Sociology or Anthropology 3

ID 2415 3

Science & Mathematics 7

CPS 1032 Computer Applications 3

AND

(Select ONE 4 credit lab course from the approved GE Distribution Course List.

Astronomy, Biology, Chemistry, Earth Science, Geology, Meteorology, Physics, Interdisciplinary 4

MAJOR/GE CAPSTONE COURSE*** 3

MGS 4999 Integrative Business Strategy 3

ADDITIONAL REQUIREMENTS 18

ECO 1020 Principles of Economics I 3

ECO 1021 Principles of Economics II 3

ECO 3020 Intermediate Macroeconomics 3

ECO 3021 Intermediate Microeconomics 3

ENG 3090 Business & Professional Writing 3

COMM 3590 Business and Professional Communication 3

MAJOR REQUIREMENTS*** 55

BUSINESS CORE REQUIREMENTS 34

MGS 2030 Principles of Management 3

BLAW 2051 Business Law I 3

MGS 2150 Business Statistics & Applications 4

ACCT 2200 Principles of Accounting I 3

ACCT 2210 Principles of Accounting II 3

MKT 2500 Principles of Marketing 3

MGS 3110 Quantitative Decision Modeling 3

FIN 3310 Corporate Finance I 3

MGS 3520 Business Ethics & Corp Responsibility 3

MGS 3040 Management Information Systems 3

MGS 4010 Operations Management 3

FINANCE MAJOR REQUIREMENTS 27

FIN 3311 Corporate Finance II 3

FIN 3350 International Business Finance 3

FIN 3380 Derivatives 3

FIN 4300 Investments and Portfolio Mgt 3

FIN 4310 Financial Institutions & Markets 3

FIN Elective 3

FIN Elective 3

FREE ELECTIVES: 16

(at least 50% must be at 3000 level or above)

TOTAL 124

Footnotes

*University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

**General Education required course

***Courses required by major, all require a grade of C or better

MINOR IN FINANCE

The following requirements are subject to change. Please check with the School of Accounting & Finance for current requirements and eligibility for the Minor in Finance.

REQUIREMENTS 21

ACCT 2200 Principles of Accounting I 3

ACCT 2210 Principles of Accounting II 3

FIN 3310 Management of Corporate Finance I 3

FIN 3311 Management of Corporate Finance II 3

FIN 4300 Investments and Portfolio Management 3

FIN 4310 Financial Institutions and Markets 3

Finance (FIN) Major Elective 3

Notes:

Students will be required to complete the following General Education courses before choosing the Minor in Finance: MATH 1044 or MATH 1054 (Precalculus), ECO 1020 (Principles of Macroeconomics) and ECO 1021 (Principles of Microeconomics).

Courses used for the minor must be taken on a letter-grade basis and earn a 'C' or better.

FINANCE COURSES

FIN 1300 Personal Finance (3)
Evaluation and structure of a lifetime personal finance program. Financial strategies, alternatives and problems for small investors. Insurance, real estate, estate planning, portfolio investments. Course cannot be applied towards the finance major but may be used as a free elective. (FA, SP)

FIN 3310 Management of Corporate Finance I (3)
Principles and procedures of finance and their applications to typical management decisions. Financial analysis and planning with emphasis on the procurement and allocation of funds and the concept of the risk-return trade-off. (E)
Prerequisite: ACCT 2200.

FIN 3311 Management of Corporate Finance II (3)
Further application of financial principles with emphasis on long-term management decisions. Maximizing the value of the firm under conditions of risk and uncertainty, through optimal budgeting of capital and use of least-cost funds. (E)
Prerequisite: Fin 3310.

FIN 3320 Preparation and Analysis of Financial Statements (3)
A study of the techniques applied in preparing, analyzing and interpreting the financial statements of industrial and commercial business enterprises. Published statements of business concerns will be discussed and analyzed. Course is designed for both accounting and non-accounting majors. (FA, SP)
Prerequisites: ACCT 2210 and Fin 3310.

FIN 3330 Principles and Practices of Indices and Exchange Traded Funds (ETFs) (3)
This is an advanced finance course with the objective of studying indices and Exchange Traded Funds (ETFs) and their application in investment management. The course provides a comprehensive overview of the theories and practical experience that are the foundations for indexing, including the uses of indices and best practices in benchmark construction, and a thorough examination of ETFs, including their anatomy, mechanics, application in investment strategy, and eco-system of industry participants.
Prerequisites: Fin 3310 and FIN 3311

FIN 3345 Entrepreneurial Finance (3)
This course provides an understanding of entrepreneurial finance which consists of funding companies from start-up to early stage and growth phases. Topics include: contemporary term sheets related to seed stage, angel funding and venture capital rounds, crowdfunding platforms, specialized sector sources, peer-to-peer platforms, supplier funding by monetizing contracts, bootstrapping, strategic partners, and accelerators/incubators. Also covered are strategic considerations for launching and preparing ventures for funding rounds, potential IPOs, and exit through mergers and acquisitions or sale.
Prerequisites: MGS 3013, FIN 3310

FIN 3350 International Business Finance (3)
Examines the circumstances under which a business firm operates and finances its activities in a multinational environment. Management, finance and investment problems peculiar to foreign operations. The political environment; investment and incentives for foreign expansion; the financial activities of the multinational corporation and the continuing evolution of this form of organization. (E)
Prerequisite: FIN 3310
Writing Emphasis Course

FIN 3380 Introduction to Derivatives (3)
An introductory course which provides a foundation in the basic principles on what options are, market structure, principles of price determination and risk/return characteristics of option contracts, futures contracts, swaps and other financial derivatives. Their application as hedging instruments is also stressed. (FA, SP)
Prerequisite: FIN 3310, FIN 3311

FIN 4110 Independent Study in Finance (3)
An individualized plan for study, focusing on the financial aspect(s) of an organization. The Independent Study Course may consist of, but not limited to a research effort, analytical writing or extensive reading.
Prerequisite: FIN 3310

FIN 4300 Investment and Portfolio Management (3)
This course studies the basic principles of investments suitable for individuals and for business organizations. It covers in detail topics such as analysis and valuation of securities, issues of market efficiency and behavioral finance, derivatives, and the creation and management of security portfolios. (FA, SP)
Prerequisite: FIN 3310, FIN 3311

FIN 4310 Financial Institutions and Markets
The course examines the role of financial markets and institutions in the economy, and the effects of the Federal Reserve Bank's monetary and regulatory policies. The course focuses on the working of various financial market sectors, financial institutions and the interaction between users and financial markets. Topics include interest rates and term structure, money and capital markets, financial innovations, asset and liability management, credit risk, international financial markets, currency markets and the management of currency risks. (FA, SP)
Prerequisite: FIN 3310
Writing Emphasis Course

FIN 4320 Capital Budgeting Management (3)
Theoretical and analytical skills applied to the study of capital budgeting are developed and explored. The interrelationship between financing and investment decisions are examined. A comprehensive examination of current techniques and tools required for the capital budgeting analysis are explored. (SP)
Prerequisite: Fin 3310, 3311

FIN 4330 Working Capital Management (3)
Current techniques used to manage corporate cash, accounts receivable, and inventories are explored. The analytical tools and skills needed to manage corporate short-term investments and financing are developed and examined. (FA)
Prerequisite: FIN 3310

FIN 4350 Principles and Practices of Asset Valuation (3)
This is an advance course with the objective of studying different techniques for the valuation of any asset, specifically the valuation of stocks, business, franchises, and real assets. The course covers in details the process of valuation using different techniques such as discounted cash flow valuation, relative valuation, and contingent claim valuation. (FA)
Prerequisite: MGS 2150, FIN 3310

FIN 4500 Seminar in Selected Topics in Finance (3)
The course surveys areas in finance influenced by contemporary developments in the disciplines that result from changes in the economy, technology or methodological breakthroughs.
Prerequisites: FIN 3310

FIN 4801-4806 Cooperative Education Finance (1-6)
Students will take one or two semesters of off-campus, on-the-job training in various aspects of finance and/or economics. Interrelationships between theory and practice will be emphasized. No more than six (6) credits in co-op education can be used within the major. (E)
Prerequisites: Juniors and seniors majoring in finance and subject to approval by faculty advisor.

Criminal Justice

School of Criminal Justice and Public Administration, Executive Director:
Dr. James Drylie

Coordinator for Criminal Justice: Dr. Patrick McManimon

B.A. DEGREE IN CRIMINAL JUSTICE

The curriculum of the Criminal Justice major is interdisciplinary, which provides great advantages in academic and career choices. The major provides students with a background in various aspects of criminal law, criminology, policing, corrections, and victimology as well as issues of diversity. Some courses include observations of court proceedings and police functions as well as visits to correctional institutions and programs. A broad background in the social sciences is integrated with specialized criminal justice courses. Experiential learning is also available to criminal justice students enrolled in Service Learning (1-credit) courses and internships, and the major offers a Travel Learn course (1-credit) for students interested in international travel. The criminal justice major also allows students to concentrate their studies in one of four tracks: law, corrections, policing, and general. The Criminal Justice Major must attain a 2.5 grade point average (GPA) to be admitted to the major and must maintain the 2.5 GPA to continue in the major and graduate.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-business-public-management>

GENERAL EDUCATION 44-45

CORE REQUIREMENTS¹

GE	1000	Transition to Kean ²	1
OR			
GE	3000	Transfer Transitions ²	1
ENG	1030	College Composition	3
MATH	1016**	Statistics	3
COMM	1402	Speech Communication as Critical Citizenship	3
GE	2021	Research & Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities	9
*ENG 2304	World Literature 3
*PHIL 1100	Introduction to Philosophy 3
Select one course:	
Fine Arts or Art History	3
Philosophy or Religion	3
Foreign Languages	3
Music or Theatre	3
Interdisciplinary	3
Social Sciences	9
*HIST 1062	Worlds of History 3
PSY 1000	General Psychology 3
SOC 1000	Introduction to Sociology 3

Science & Mathematics	10-11
CPS (1031 or 1032 or 1231)	3
AND	
(Select two courses; one must be a lab science)	
Biology	3,4
Chemistry or Physics	3,4
Astronomy, Geology or Meteorology	3,4
Interdisciplinary	3,4
Health/Physical Education	3
ID 1225	Issues Contemporary Health 3

ADDITIONAL REQUIREMENTS*** 24

(Select 8 courses from at least 3 different areas)	
SOC 2300,3050,3150,3350,4700	3
PA 2000,2010,2700,3001,3110,3200, 3300	3
PHIL 3307,3309,3313	3
PSY 3650,3660	3
PS 2110,3130,3151,3430,3680	3

MAJOR REQUIREMENTS**** 45

REQUIRED COURSES 36

CJ	2610	Criminology	3
CJ	2600	Criminal Justice in America	3
CJ	3500	Diversity in Criminal Justice	3
CJ	3610	Correctional Systems	3
CJ	3630	Police Role in the Community	3
CJ	3650	Juvenile Justice	3
CJ	3675	Research Methods in CJ	3
CJ	3685	Substantive Criminal Law	3
CJ	4600	(WE) Senior Seminar Capstone	3

3 COURSES OF CRIMINAL JUSTICE ELECTIVES 9

(3450, 3600, 3620, 3630, 3640, 3660, 3680, 3685, 3690, 3700, 3740, 3800, 4610, 4650, 4700, 4800/4801, 4990)	
Select an area of concentration below	
Corrections Concentration	(9)
CJ	3620 Probation and Parole 3
CJ	4650 Alternatives to Incarceration 3
PHIL	3309 Philosophy of Punishment 3

OR

Law Concentration	(9)
CJ	3690 Role of the Prosecutor 3
CJ	3700 Proof and Verification 3
CJ	4700 Justice and Police Power 3

OR

Policing Concentration	(9)
CJ	3600 Police Organization 3
CJ	4700 Justice and Police Power 3
COMM 3525	Conflict Resolution 3

OR

General CJ Concentration Study	(9)
Students must take one course from each of the concentration courses listed above (corrections concentration, law concentration, and police concentration.)	

Corrections Course	3
Law Course	3
Police Course	3

FREE ELECTIVES: 12

Not Criminal Justice Courses
(50% of free electives must be taken at the 3000-4000 level)

TOTAL 125

¹ See prerequisites and equivalencies.

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

*Required Distribution Course

** Prerequisite for CJ 3675 Research Methods.

*** Courses can be substituted for students that complete a minor, and/or have declared a second major.

**** All major and minor courses require a grade of C or better

MINOR IN CRIMINAL JUSTICE

REQUIRED COURSES 6

CJ	2600	Criminal Justice in America	3
CJ	3650	Juvenile Justice	3

ELECTIVES 12

One of the following (Corrections)		3
CJ	3610	Correctional Systems 3
CJ	3620	Probation & Parole 3
CJ	4650	Community-Based Alternatives 3

One of the Following (Law Enforcement) 3

CJ	3600	Police Organization & Administration	3
CJ	3630	Police Role in the Community	3
CJ	3690	The Role of the Prosecutor	3
One of the Following (Law)			3
CJ	3640	Comparative Criminal Justice Systems	3
CJ	4700	Justice and Police Power	3
CJ	3685	Substantive Criminal Law	3

And one additional elective to be chosen from any other course in the program 3

TOTAL 18

CRIMINAL JUSTICE COURSES

CJ 2600 Criminal Justice in America (3)
An overview of the American criminal justice system, emphasizing the police, courts, and corrections, including community-based corrections. Topics will include the police role in a democratic society, the tension between due process and the need for order, and issues of punishment involving proportionality, rehabilitation, and public safety. (E)

CJ 2610 Criminology (3)
This course presents an overview and introduction to criminological theory. The ideological and historical context of justice and the application of established theory will be explored drawing from the biological, psychological, sociological and economic disciplines. The course will provide students with an introduction to integrated theories as well. (E)

Equivalent to SOC 2710: Students will not receive credit for both CJ 2610 and SOC 2710.

CJ 2630 Foundations of Cyber Security (3)
This course will serve as an introduction to cybersecurity and the rapidly increasing concerns associated with cybercrime as well as legal issues impacting cyber investigations. Students will learn about the social, political, cultural, and economic changes in criminal justice as they relate to cyber issues. Topics for this course will include computer hacking, cyber-terrorism, property and identity theft, cyber bullying, and policing the internet.
Prerequisite: CJ 2600.

CJ 3450 Victims of Crime (3)
Studies victims of crime, their numbers and the characteristics associated with particular types of violence in the family, such as child abuse, domestic violence and elder abuse, as well as sexual assault, missing and murdered children, and vehicular homicide. Theories, service delivery, and legislation regarding victims' rights will be analyzed. (E) (SE-Kean Ocean)

CJ 3500 Diversity and Criminal Justice (3)
Critically examines race, gender and other diversity issues within and faced by criminal justice systems within the United States and internationally. Topics of emphasis include the importance of diversity issues in the development, organization and operation of criminal justice systems; and diversity in offenders, victims, and criminal justice professionals. Also examined, when discussing diversity, are problems of prejudice and discrimination. The course materials include historical, legal, social, and other sources of data that clarifies how diversity impacts societies and criminal justice systems. (E) (E3-OCC)

CJ 3600 Police Organization and Administration (3)
Development, organization, and administration of American police departments, considering the principles of organization best adapted to ensure effective service to the community. Evaluating line, staff, and auxiliary functions, and analytic units of administration.. (E)
Prerequisite: CJ 2600 or permission of instructor.

CJ 3610 Correctional Systems (3)
The client of the criminal justice system in the post conviction, institutional setting. Attention to the evolution of correctional services for institutionalized offenders. The relationship between prison administration and other elements of the justice system.. (E)
Prerequisite: CJ 2600.

CJ 3620 Probation and Parole (3)
Specialized correctional strategies, emphasizing competencies and resources needed for effective probation and parole work. Includes relevant sentencing criteria.. (E) (FO-Kean Ocean)
Prerequisite: CJ 2600.

CJ 3630 Police Role in the Community (3)
Human relations as they affect policing and police management, and the police role in various community settings. Topics include prejudice and discrimination, corruption and violence and their impact on the police and the community in a changing society. The role of the modern police officer in attempting to balance the needs of order and individual rights.. (E)
Prerequisite: CJ 2600 or permission of instructor.

CJ 3640 Comparative Criminal Justice Systems (3)
A study of criminal justice systems in selected, representative nations, analyzed in comparison to systems in the United States. Attention will be paid to styles, goals, procedures, and legal protections. (SP) (SE-Kean Ocean)
Prerequisite: CJ 2600.

CJ 3641 Comparative Criminal Justice Systems Travel Learn (1)
Travel Learn is the process of incorporating student knowledge with the experience of visiting a foreign country to study that criminal justice system. This course is a field experience concerning the functioning of criminal justice agencies that are not United States agencies. Students are expected to integrate their field experiences with assigned readings, reflective writing, group discussions, and other activities as directed by the instructor. This course involves international travel. (SE) (SP-Kean Ocean)
Prerequisite: To be taken with CJ 3640, or students having taken CJ 3640, or with permission of the instructor.

CJ 3650 Juvenile Justice (3)
The juvenile justice system in America, with theory and practice of controlling youth crime through formal juvenile institutions, and diversion. Parallels and differences with the "adult system" will be emphasized. (E) (E3-Kean Ocean)
Prerequisite: Soc 1000 and CJ 2600 or permission of instructor.

CJ 3660 White Collar and Organized Crime (3)
The nature and impact of illicit behavior by corporate and governmental agencies, and large organizations. Problems in establishing criminal responsibility in prosecutions when confronting a code of ignorance and silence, and problems in applying meaningful sanctions. (E) (SE-Kean Ocean)
Prerequisites: CJ 2600 or permission of instructor.

CJ 3675 Research Methods in Criminal Justice (3)
This course prepares students to evaluate research critically as well as design various quantitative and qualitative research projects on their own. Through the course, students will learn various techniques for conducting theoretically based research. Also, they will learn how to critically evaluate the validity, reliability, and limitations of other research, while placing close attention to ethical concerns. (E, SSI) (FO-Kean Ocean)
Prerequisites: CJ 2600 and CJ 2610, MATH 1016.

CJ 3680 Crime Analysis (3)
This course will introduce students to crime analysis techniques in criminal justice using such computer applications as Excel, SPSS, and ARC view. Students will rely on analytic tools to draw conclusions about crime patterns and other crime related events. Students will also learn about the evolution of crime analysis as a tool to identify crime problems, crime hot spots, crime displacement, and criminogenic locations. (FE)
Prerequisites: CJ 2600 and CJ 3675 or permission of instructor.

CJ 3685 Substantive Criminal Law (3)
General principles of criminal law, common law felonies, material elements of a crime, culpability, and criminal defenses. (E) (E3-Kean Ocean)
Prerequisite: CJ 2600 or permission of instructor.

CJ 3690 The Role of the Prosecutor (3)
Ethical and strategic factors in the prosecutor's role to see that justice is done, and be an advocate for the people. Limits of prosecutorial discretion, relationships with the police, the courts, the grand jury, the parole board, and defense counsel. (E) (E3-Kean Ocean)
Prerequisite: CJ 2600 or permission of instructor.

CJ 3700 Proof and Verification in Criminal Justice (3)
The history and authority of proof and verification as they relate to suspects and defendants accused of crimes. Emphasis on relevance, admissibility, competency, standard of proof, presumptions and the exclusionary rule. This course provides the student with an understanding of the parameters in which police, prosecution, defense and the judiciary must operate. (E) (SE-Kean Ocean)
Prerequisite: CJ 2600 or permission of instructor.

CJ 3720 Cyber Crime (3)
This course will serve to develop critical thinking skills related to investigating and researching digital crime, digital terrorism, and information warfare. Topics addressed in this course will include cyber terrorism, network security concerns, theories associated with hackers, and legal strategies and tactics targeting cyber related crimes.
Prerequisite: CJ 2630.

CJ 3740 Ethics in Criminal Justice (3)
This course examines the many difficult decisions that criminal justice professionals make in an environment of competing interests. The decision-making of criminal justice professionals is often impacted by their ethical dilemmas. Emphasis is placed on addressing moral issues and concerns of our justice process in personal, social, and criminal justice contexts. (E) (SE-Kean Ocean)
Prerequisite: CJ 2600 or permission of instructor.

CJ 3800 Criminal Investigation (3)
Examines the scientific and legal nature of the criminal investigative function. Introduces the scientific methods associated with the criminal investigative process. The course covers the basic principles of investigations, preservation and collection of physical evidence within the context of the American judicial system. (E)
Prerequisite: CJ 2600 and CJ 2610.

CJ 4600 Senior Seminar in Criminal Justice (3)
Research into a contemporary significant criminal justice issue, including literature searches, problem statement, research planning, and reporting of results, with suggestions for change. (E) (SE-Kean Ocean)
Prerequisites: CJ 2600, CJ 2610, and CJ 3675, 3 courses in Criminal Justice at the 3000 or 4000 level and Senior Status.

CJ 4610 Issues in Criminal Justice (3)
Course content will vary, and be selected from contemporary issues in law enforcement, court and legal issues, corrections and community-based corrections, and theory in criminal justice. (E) (SE-Kean Ocean)
Prerequisite: CJ 2600 and 2 courses in Criminal Justice at the 3000 or 4000 level.

CJ 4650 Alternatives to Incarceration (3)
Theories and realities of offenders sentenced to intermediate sanctions in a community-based setting. Topics will include Intensive Supervision Programs (ISP), electronic monitoring, halfway houses, boot camps, substance abuse treatment programs, and restitution and community service. (E) (E3-Kean Ocean)
Prerequisite: CJ 2600 and CJ 3610, or permission of instructor.

CJ 4700 Justice and Police Power (3)
The rights of suspects and defendants accused of crimes, and the limits of police power. Emphasis on conduct of search and seizure, confessions, eyewitness identification, right to counsel, prosecutorial misconduct, suppression of evidence, fair trial, and the role of the defense counsel. Proportionate sentencing and substantive due process, including the death penalty. (E) (SE-Kean Ocean)
Prerequisite: CJ 2600 or permission of instructor.

CJ 4800/CJ 4801 Internship in Criminal Justice I / II (3)
Supervised placement one or two days per week in a public or private agency, offering direct participation in criminal justice. Concomitant one and one half hour weekly seminar to integrate course knowledge with field experience. The student must be a criminal justice major and may not use their employment as an internship site. Internships must be approved prior to the start of field work by the student. (E)
Prerequisite: CJ major, CJ 2600, and 2 courses in Criminal Justice at the 3000 or 4000.

CJ Service Learning Module (1)
The following courses are available for the Service Learning component: (CJ 2600, CJ 3610, CJ 3650, CJ 3630, CJ 3685). Service learning is the process of incorporating student volunteerism within an academic framework while providing service to the community, resulting in the development of skills, knowledge and experience. (E)
Prerequisite: Must be taken in conjunction with the course.

CJ 4990 Independent Study in Criminal Justice
A tutorial course in Criminal Justice, for majors only, with required project reports. Periodic meetings, with substantial research and reading required.

Public Administration

School of Criminal Justice and Public Administration, Executive Director: Dr. James Drylie

Coordinator: TBD

A career in public administration can be well paying, secure, and exciting. But more importantly, public administration offers a chance to make a difference. A degree in Public Administration is the first step for a career in the public or nonprofit sectors, including criminal justice, health care and state and local government management. Career opportunities in multinational corporations and regulated industries are among two emerging job markets for students with degrees in public administration. In addition, with a background in public administration a student can develop the knowledge and skills necessary for establishing a successful career or entering graduate programs in a variety of other disciplines including law, planning, business, and government relations.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-business-public-management>

B.A. DEGREE IN PUBLIC ADMINISTRATION

GENERAL EDUCATION 43-45

CORE REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1000 Algebra for College Students 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2021 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

ENG 2403 World Literature 3

Select two different courses from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 9

HIST 1062 Worlds of History 3

Select two different courses from below:

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 10-11

MATH or CPS 3

Lab Science, Biology, Chemistry, Physics, Astronomy, Geology or Meteorology 4

Interdisciplinary 3

Health/Physical Education 2-3

ID 1225 Issues Contemporary Health 3

OR

ID 1010 Leisure & Rec, Multicultural Soc. 3

OR

Physical Education 2

ADDITIONAL REQUIREMENTS 12

ACC 2200 Principles of Accounting I 3

ENG 3090 Bus Prof and Tech Writing 3

ECON 1020 Principles of Economics 3

PS 2100 American Gov. and Politics 3

MAJOR REQUIREMENTS 36

REQUIRED COURSES 21

PA 2000 Introduction to Public Administration 3

PA 2010 Management Challenges in Public Organizations 3

PA 3001 Management Information I: Technology and Info Systems 3

PA 3100 Policy Analysis in Governmental Systems-WE 3

PA 3110 Intergovernmental Relations-WE 3

PA 3200 Management Resources I: Budget and Financial Management in Government 3

PA 3300 Management Resources II: Human Resources in Government 3

MAJOR ELECTIVES 12

(Four Public Administration Courses)

MAJOR CAPSTONE COURSE

PA 4000 Junior/Senior Transition Seminar 3

FREE ELECTIVES 31-34

50% at 3000-4000 level

TOTAL 124

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

MINOR IN PUBLIC ADMINISTRATION

REQUIREMENTS 18

REQUIRED COURSES CHOOSE ONE OF THE FOLLOWING 12

ECO 2120 Business Statistics

CJ 3675 Research Methods in Criminal Justice

PS 3550 Scope and Methods of Political Science 3

AND

PS 2100 American Government and Politics 3

PA 2000 Introduction to Public Administration 3

PA 3110 Intergovernmental Relations (WE) 3

ELECTIVES 6

Two courses in public administration, selected with advisement.

TOTAL 124

FIVE-YEAR COMBINED-ACCELERATED B.A./M.P.A. DEGREE (HONORS PROGRAM)

Coordinator: Dr. Craig Donovan

W-311, (908) 737-4307

The combined accelerated Bachelor of Arts and Master of Public Administration Honors Program is an option for a limited number of students who can demonstrate their academic excellence, who show effective oral and written communication skills, and who are ready to work harder to get ahead faster. Success in the program requires a high degree of self-motivation, maturity, dedication and well-defined career goals. Applications are normally completed in the student's junior year. Beginning in their senior year, students enroll in a unique combination of undergraduate and graduate level courses that will qualify for both their undergraduate B.A. and graduate M.P.A. degree. Specific course requirements are described in a separate information and application packet available from the Department of Public Administration.

B.A. REQUIREMENTS

GENERAL EDUCATION 43-45

CORE REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1000 Algebra for College Students 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2021 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

ENG 2403 World Literature 3

Select two different courses from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 9

HIST 1062 Worlds of History 3

Select two different courses from below:

Psychology 3

Economics or Geography	3
Political Science	3
Sociology or Anthropology	3
Interdisciplinary	3
Science and Mathematics	10-11
MATH or CPS	3
Lab Science, Biology, Chemistry, Physics, Astronomy, Geology or Meteorology	4
Interdisciplinary	3
Health/Physical Education	2-3
ID 1225 Issues Contemporary Health	3
OR	
ID 1010 Leisure & Rec, Multicultural Soc.	3
OR	
Physical Education	2
ADDITIONAL REQUIREMENTS	12
ACC 2200 Principles of Accounting I	3
ENG 3090 Bus Prof and Tech Writing	3
ECON 1020 Principles of Economics	3
PS 2100 American Gov. and Politics	3

FREE ELECTIVES 31-34
(50 % at 3000-4000 levels)

MAJOR REQUIREMENTS 33

REQUIRED COURSES 21

PA 2000 Introduction to Public Administration	3
PA 2010 Management Challenges in Public Organizations	3
PA 3001 Management Information I: Tech and Info Systems	3
PA 3100 Policy Analysis in Governmental Systems-WE	3
PA 3110 Intergovernmental Relations-WE	3
PA 3200 Management Resources I: Budget and Financial Management in Government	3
PA 3300 Management Resources II: Human Resources in Government	3
PA 4000 Capstone Course Jr/Sr Transitional Seminar in PA	

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

GENERAL PROGRAM MPA GRADUATE COURSE REQUIREMENTS FOR B.A.

REQUIRED COURSES 12

PA 5001 Foundations of Public Administration	3
PA 5010 Public Bureaucracy	3
PA 5021 Fiscal Management of Government and Nonprofit Organizations	3

PA 5110 Human Resources Management	3
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ADDITIONAL GRADUATE REQUIREMENTS TO COMPLETE GENERAL PROGRAM MPA DEGREE 21

PA 5030 Analytical Methods	3
PA 5031 Quantitative Methods	3
PA 5040 Public Budgeting	3
PA 5050 Public Law	3
PA 5225 Strategic Planning in Management	3
PA 5245 Information Management	3
PA 5990 Research Seminar in Intergovernmental Relations	3

FREE ELECTIVES

One course in Public Administration selected with advisement. 3
PA 5960 Graduate Internship 6
****or two additional courses, if internship is waived**
Please see Graduate Catalog for course descriptions.

PUBLIC ADMINISTRATION COURSES

PA 2000 Introduction to Public Administration (3)
Emphasis on a systematic perspective in understanding the impact of social, economic and political forces (both national and international) in shaping the role and impact of public administration. Focus on the policy-making and policy-implementation process; importance of federalism and intergovernmental relations. Emphasis on the roles, functions and activities of public managers. (E)

PA 2010 Management Challenges in Public Organizations (3)
Emphasis on an understanding of public organizations as interactive systems; individual and group dynamics; organizational, cultural and design; major theories of organization and management. Understanding of skills and competencies managers need to develop. (E)
Prerequisite: PA 2000.

PA 3001 Managing Informational Technology and Information Systems in the Public Sector (3)
Introduction to the use of computers and information technology in government; familiarity with major activities and software packages; fundamentals of collecting and analyzing data. (E) (E3-Kean Ocean)
Prerequisite: PA 2000 or permission of instructor.

PA 3100 Policy Analysis in the Governmental System (3)
Emphasis on the development of quantitative and qualitative skills in analyzing policy issues and in the evaluation of governmental programs; focus on the intergovernmental context as it affects the policy-making and policy-implementation process. (E)
Prerequisites: PA 2000 or permission of instructor. Writing Emphasis Course

PA 3110 Intergovernmental Relations (3)
Review and analysis of intergovernmental relations (IGR) in the United States. Emphasis on interaction among officials and governmental units; examination of fiscal relationships, particularly the grants-in-aid process, and discussion of public policy implications of IGR. (E) (E3-Kean Ocean)
Prerequisites: PA 2000 or permission of instructor. Writing Emphasis Course

PA 3200 Managing Resources I: Budgeting and Financial Management in Government (3)
Emphasis on understanding fundamental principles and processes involved in the acquisition and use of financial resources. (E) (E3-Kean Ocean)
Prerequisite: PA 2000 or permission of instructor.

PA 3300 Managing Resources II: Human Resources in Government (3)
Basic principles and processes involved in the management of human resources in the public sector. (E) (E3-Kean Ocean)
Prerequisite: PA 2000.

PA 4000 Junior/Senior Transitional Seminar in Public Administration (3)
Introduction to the "real world" of public administration via intensive examination of problems and issues facing public managers; extensive interaction with practitioners; focus on understanding skills and practical administration. (E) (E3-Kean Ocean)
Prerequisites: PA 2000 plus 15 credits in Public Administration; completion of at least 60 credits.

ELECTIVE COURSES

PA 3411, 3412 Critical Issues in Public Administration I and II (3)
Examination of important contemporary issues affecting the field and practice of public administration; identification of policy implementation and/or management trends of particular significance for the future. Choice of topics each semester will vary but will usually focus on domestic or social policy and management issues.
Prerequisite: PA 2000 or permission of instructor.

PA 3070 Administration of Public Policy (3)
Examination of the administrative policy making process, involving both policy formulation and policy implementation. The demands on administrators from various sectors of the political system for policy change as well as bureaucratic influence on legislative policy making are also considered.
Prerequisite: PA 2000.

PA 3350 Collective Bargaining (3)
Analysis of collective bargaining as a social and political process within an economic framework, with special emphasis on employee association in the public sector. (E3)
Prerequisite: PA 2000 or permission of instructor.

PA 3380 Grantsmanship (3)
Introduction to the intergovernmental grants process; examination of American intergovernmental relations and assistance structures; techniques for researching, planning, writing, packaging and lobbying grant and contract proposals. (SP)

Prerequisite: PA 3110 or permission of instructor. Writing Emphasis Course.

PA 3500 Administrative Law and Regulatory Policy (3)

Delegation of powers, separation of powers, rule making by administrative agencies. The study of cases, which affect the administrative process and relate to the scope of judicial review. (E3)

Prerequisite: Permission of instructor.

PA 3700 The Manager as a Negotiator (3)

This course will focus on the negotiation process that managers are required to engage in on a day-to-day basis, and will emphasize the communication skills that the manager must display if she/he is to be effective. (E3)

PA 3800 Health Care Systems in the United States (3)

To familiarize students with the basic concepts and current issues with regard to how health care is provided in the United States. Through lectures and discussions, we will examine the financial state of health care in the U.S., the settings in which the health care is provided, and how well the health care delivery system performs. We will critique the ways in which health care in the U.S. failed 44 million people, mostly children, and discover ways in which the delivery system can be improved. (E3)

PA 4600 Honors Seminar in Public Administration (3)

Intensive examination of a significant policy or management issue in public administration; using a laboratory format, students will work directly with a public official to research a problem or issue, develop alternative solutions, and present a report with their recommendations. Requires minimum 3.0 overall G.P.A. in the major and permission of instructor.

Prerequisites: PA 2000 plus 15 credits in Public Administration.

PA 4800, PA 4801 Internship (3,3)

Supervised placement one or two days per week in a public agency, offering direct participation in public administration. Concomitant one-and one-half hour weekly seminar to integrate course knowledge with field experience. (E)

Prerequisites: Six hours of Public Administration and permission of instructor.

PA 4810, 4811 Cooperative Education (12)

Opportunity for students to obtain long-term experience in supervised public agency work linked to related academic seminars. Student works full-time (40 hours a week) during the full fall or spring semester and attends weekly seminar series on topics related to agency work. (E)

PA 4990 Independent Study (3)

Tutorial course for public administration majors, with required project reports. Periodic meetings, substantial research and reading required. (E)

Prerequisites: Twelve hours of public administration. Open only to public administration majors who have made prior arrangements with a faculty member.

School of Management and Marketing

Executive Director: Dr. Shanggeun Rhee

Coordinator (Management): Dr. Janine Black

Coordinator (Marketing): Dr. Valerie Vaccaro

The School of Management and Marketing offers a Bachelor of Science degree with majors and minors in Management and Marketing. The program allows students to combine knowledge of business theory and practice with courses in liberal arts and sciences, resulting in an overall educational experience of depth and quality. Our world-class faculty mentor students on employing the latest management and marketing tools and best practices. Our goal is to educate students to identify business opportunities at home as well as in emerging global markets and develop actionable strategies. Students are well prepared for entry-level managerial positions, with the knowledge and skills to advance professionally.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/MMIB-Mission-and-SLOs>

Management

Executive Director: Dr. Shanggeun Rhee

Coordinator (Management): Dr. Janine Black

The management program focuses on developing skills required to manage the operations of a business or not-for-profit organizations in local, national, and global organizations by applying technical, human, conceptual, and strategic skills. It emphasizes the development of problem-solving, critical thinking, communication and information technology skills essential for effective decisions making in a diverse global business environment. These encompass strategic decisions as well as operational decisions.

The management programs empower students to pursue career opportunities in a broad range of fields including, administration, human resource management, international trade and business, information systems, financial management, purchasing, supply chain management and logistics, labor relations, production management, hospitality industry, medical and health services management, property and construction management, real estate management, business analysis and consulting, entrepreneurial ventures, small business management, health-care management, educational leadership and non profit/institutional administration, as well as for further study at the graduate level.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-business-public-management>

ADMISSIONS REQUIREMENTS:

The following are the requirements for admission into the Management Major:

- 1) The student must have a grade point average of 2.5 on 30 or more completed semester hours. If fewer than 30 semester hours have been completed at Kean, GPA

will be calculated using coursework from all transfer institutions attended.

2) Complete the Foundation Coursework with a grade of 'C' or better,

ENG	1030	College Composition
COMM	1402	Speech Communication as Critical Citizenship
MATH	1044 OR MATH 1054	Pre-Calculus
GE	2021	Research & Technology
Additional courses to be completed with a grade of 'C' or better to declare major:		
ECO	1020	Principles of Economics I (Macroeconomics)
ECO	1021	Principles of Economics II (Microeconomics)
CPS	1032	Microcomputer Applications
ACCT	2200	Principles of Accounting I
MGS	2150	Business Statistics & Applications

NOTE: All major courses require a grade of C or better.

NOTE: For students admitted prior to September 1, 2014, follow the program requirements specified in the catalog for the year you entered Kean. See academic advisor for details.

B.S. DEGREE IN MANAGEMENT

GENERAL EDUCATION 35

FOUNDATIONS REQUIREMENTS 13

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030	College Composition	3
MATH	1044 or MATH 1054	Pre-Calculus for Business	3
COMM	1402	Speech Communication	3
GE	2021	Research & Technology	3

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities	6
ENG 2403 World Literature	3
AND (select one of the following)	
Fine Arts or Art History	3
Philosophy or Religion	3
Foreign Languages	3
Music or Theatre	3
Interdisciplinary ID 1300 or ID 3230	3
Social Sciences	6
HIST 1062 Worlds of History	3
AND (select one of the following)	
Psychology	3
Economics or Geography	3
Political Science	3
Sociology or Anthropology	3

Interdisciplinary ID 2415	3
Science & Mathematics	7
CPS 1032 Micro Applications	3
AND (select one of the following sciences)	
Biology	4
Chemistry or Physics	4
Astronomy, Earth Science, Geology, or Meteorology	4

ADDITIONAL REQUIREMENTS 12

ECO 1020 Principles of Economics I (Macroeconomics)	3
ECO 1021 Principles of Economics II (Microeconomics)	3
ENG 3090 Business & Professional Writing	3
COMM 3590 Bus & Professional Communication	3

MAJOR/GE CAPSTONE COURSE 3

MGS 4999 Integrative Business Strategy	3
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ACADEMIC MAJOR REQUIREMENTS 55

BUSINESS CORE COURSES 34

MGS 2030 Principles of Management	3
MGS 2150 Business Statistics & Applications	4
ACCT 2200 Principles of Accounting I	3
ACCT 2210 Principles of Accounting II	3
BLAW 2051 Business Law I	3
FIN 3310 Corporate Finance I	3
MKT 2500 Principles of Marketing	3
MGS 3040 Management Information Systems	3
MGS 3110 Managerial Decision ML	3
MGS 3520 BUS Ethics and CSR	3
MGS 4010 Operations Management	3

Students choose one of the following options:

1. Management of Organizations Option
2. Supply Chain & Information Management Option
3. General Business Option
4. Entrepreneurship Option

MANAGEMENT OF ORGANIZATIONS OPTION 24

CORE COURSES 12

MGS 3013 Entrepreneurship	3
MGS 3030 Human Resources Management	3
MGS 3032 Organizational Behavior	3
MGS 3035 International Management	3

ELECTIVE COURSES 12

Choose Four (4) 3000-4000 level courses from Management Electives Course List with approval from academic advisor

SUPPLY CHAIN AND INFORMATION MANAGEMENT OPTION 24

CORE COURSES 12

MGS 3032 Organizational Behavior	3
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MGS	3041	Advanced Mgmt. Information Systems	3
MGS	4120	Introduction to Supply Chain Management	3
MKT	3720	Logistics & Transportation	3

ELECTIVES COURSES 12

Choose Four (4) 3000-4000 level courses from the following list

Four of the following:

MGS	3045	Commercial Development of the Internet	3
MKT	3490	Internet Marketing	3
MKT	3650	Marketing Channels	3
MKT	3690	Business to Business (B2B) Marketing	3
MGS	4130	Intro to Total Quality Management	3
MGS	4150	Supply Chain Sourcing & Procurement Management	3
MGS	4160	Warehousing and Material Management	3

MGS 3000/4000 Level (With permission of academic advisor)

GENERAL BUSINESS OPTION 24

CORE COURSES 12

MGS	3013	Entrepreneurship	3
MGS	3030	Human Resources Management	3
MGS	3032	Organizational Behavior	3
MGS	3035	International Management	3

ELECTIVE COURSES 12

Four Business Courses (MGS, MKT, FIN, or ACCT) at the 3000-4000 Level. (Choose with approval from academic advisor)

ENTREPRENEURSHIP OPTION 24

CORE COURSES 12

MGS	3013	Entrepreneurship	3
MGS	3030	Human Resources Management	3
MGS	3032	Organizational Behavior	3
MGS	3035	International Management	3

ENTREPRENEURSHIP COURSES 12

MGS	3360	Social Entrepreneurship	3
MKT	4300	New Product Development	3
FIN	3345	Entrepreneurial Finance	3

Select one course from the following:

GBUS	4330	Innovation & Entrepreneurship	3
GBUS	4320	Sustainable Global Business & Technology	3
MGS	4360	Entrepreneurship Practicum	3

FREE ELECTIVES 19

At least 50% must be 3000/4000 level

May use MGS 4801-4806 with approval of Co-op/Internship Coordinator

TOTAL 124

MINOR IN MANAGEMENT

The following requirements are subject to change. Please check with the School of Management and Marketing for current requirements.

FOUNDATION COURSES

MGS	2030	Principles of Management	3
MKT	2500	Principles of Marketing	3

REQUIRED COURSE 9

MGS	3032	Organizational Behavior	3
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ELECTIVE COURSES (3000/4000 LEVEL)

Management course	3
Management course	3
Management course	3

Notes:

Courses used for the minor must be taken on a letter-grade basis and earn a 'C' or better.

Minor Elective Courses cannot be applied for both the major and the minor. The elective courses must be in addition to the courses required for the major.

Student must have a 2.5 GPA in the minor.

MGS 4801-MGS 4806 Coop/Internship may not be used for minor.

MANAGEMENT COURSES

MGS 2030 Principles of Management (3)
Surveys the various forms of business organization and the methods and principles used in production, marketing, credit and competition. Examines the responsibilities of management in the organization of business. (E), (SSI)
Prerequisites: COMM 1402, GE 2021

MGS 2110 Quantitative Methods in Management Science (3)
The course is an introduction to calculus based optimization techniques with applications to business problems. Topics include: linear models, linear programming, matrix algebra, introduction to differential calculus, the use of derivatives to solve maxima and minima problems and partial derivatives. (E)
Prerequisite: Math 1044 or MATH 1054

MGS 2150 Business Statistics & Applications (4)
This course focuses on real world business data and the ability required to use statistical tools to draw meaningful conclusions. Topics include techniques for summarizing and describing data, the nature of uncertainty and probability theory, central limit theorem, and sampling methodology. Inferential topics include confidence intervals, hypothesis testing, analysis of variance, and correlation and regression analysis. The use of Excel and other computer software for analyzing data is integrated throughout the course. Attendance and coursework are mandatory. (E), (SSI)
Prerequisite: MATH 1044 or MATH 1054 and CPS 1032

MGS 3010 Introduction to Sports Management (3)

This course provides the students with a broad overview of the operation of today's sports industry. Students will examine sports management beyond the often-inaccurate public perception and gain current knowledge of marketing, sales and promotion in a sports climate. (FA)
Prerequisite: MGS 2030

MGS 3013 Entrepreneurship (3)

The purpose of this course is to empower students to acquire the knowledge, skills, and resources to be an entrepreneur during their careers in a challenging economic environment. This course will review topics including advantages and disadvantages of entrepreneurship, identification of ideas for new start-up opportunities, forms of business ownership and franchising, strategic management of financial and human resources, marketing and production plans, and other topics. Students will develop new business plans as a basis for launching new ventures. (E)
Prerequisite: MGS 2030, MKT 2500, ACCT 2200

MGS 3025 International Business and Trade (3)

A survey of the essentials of international business and the global forces that affect it. The course is designed to introduce students to the study of international environments and international business operations in the "global marketplace." Emphasis will be placed on the international activities of exporting, importing, licensing, foreign exchange, foreign investment, and foreign trade and their interacting relationships with the world economic, social and political environments. (E)
Prerequisite: MGS 2030

MGS 3030 Human Resources Management (3)

An analysis and understanding, from both the theoretical and application perspective, of the Human Resource Management role in contributing to and determining organizational success. Emphasis placed on concepts and themes related to external environmental considerations and to the major human resource functions within both a national and international labor market context. (E), (SSII)
Prerequisite: MGS 2030

MGS 3031 Employment Law (3)

This course provides students with an overview of employment-related law issues. Legal regulations will be examined related to the relationship between employers and employees, and their rights and obligations during recruitment, hiring, employment, and termination. Laws will be studied regarding the hiring and firing process, the Fair Labor Standard Act, workers' compensation, unemployment insurance, laws on employment discrimination and employment benefits, workplace health and safety regulation, and related topics. (E)
Prerequisite: MGS 2030, BLAW 2051, MGS 3030

MGS 3032 Organizational Behavior (3)

With the premise that people are the foundation for an organization's competitive advantage, this course seeks to explain, control, and predict individual, interpersonal, and organizational actions. Focuses on strategic aspects of human behavior and managerial applications of knowledge and skills of human capital. Discusses new perspectives of organizational behavior required in the new forms of organizations. Examines new challenges contemporary organizations face, identifies emerging behavioral issues from the individual human resources to organizational levels with the goal of high performing organizations. (E), (SSI)

Prerequisite: MGS 2030

MGS 3035 International Management (3)

Management practices of multinational corporations; economic, social-cultural, legal, political and technological constraints faced by managers in multinational companies. (E)

Prerequisites: MGS 2030

MGS 3040 Management Information Systems (3)

Computer-based information systems for business organizations: management and decision-making; organization and information systems; technology of computer-based systems; systems analysis, design and implementation. Emphasis on managerial issues. (E), (SSI)

Prerequisites: CPS 1032, MGS 2030, ACCT 2200, and MATH 1044 or 1054

MGS 3041 Advanced Management Information Systems (3)

Systems analysis, design, and implementation of an MIS from a managerial and/or end-user viewpoint. Details on the design and use of the six building blocks of the MIS: input, models (procedural, mathematical), output, technology, database, and controls. Students will learn the use of a fourth generation tool (R:BASE System V or dBASE III Plus, etc.) for creating a menu-driven relational database system. (SP)

Prerequisite: MGS 3040

MGS 3045 Commercial Development of the Internet (3)

E-business fundamentals and commercial practices are covered which enhance an organization's managerial and marketing performance using the Internet and World Wide Web. These include supply chain, customer relationship, and enterprise resource planning (ERP) management systems and tools that aid in strategic and operational decision-making. Business to consumer (B2C) and business to business (B2B) marketing services and models also provide new channels of distribution and communication links with customers, suppliers, employees, and business partners. (FA)

Prerequisites: MGS 2030, MKT 2500

MGS 3050 Negotiation Strategies (3)

Negotiation is both an art and science of securing an agreement between two or more interdependent parties through back-and-forth communication. This course will develop an understanding of the principles, strategies, and tactics of effective negotiation and professional relationship management through a series of simulation exercises, role-playing, and debriefings. In-class discussions and lectures supplement the exercises. The course has a strict attendance policy. Students work with other class members on group negotiation exercises.. (E)

Prerequisites: MGS 2030, MGS 3032

MGS 3110 Managerial Decision Modeling (3)

The course objective is to familiarize the future business manager with the methods and techniques of management science and the calculus. Linear programming (LP) will be studied in depth. The student will then learn how to construct and formulate both deterministic and probabilistic business models. Calculus, Probability, Decision Analysis and Forecasting Models will be studied in relation to their central role in running a business. (E)

Prerequisites: MGS 2150 and MATH 1044 or 1054

MGS 3120 Advanced Statistical Methods in Management Science (3)

Bayesian decision theory and its relationship to classical statistical inference, analysis of variance, nonparametric statistics, maximum likelihood estimation, sampling designs including Monte Carlo sampling and quality controls. Applications to problems in business and economics. (E)

Prerequisite: MGS 2150

MGS 3130 Forecasting Techniques in Business and Economics (3)

Methods of identifying, determining and analyzing economic and business trends in order to forecast future behaviors. Topics include time-series analysis, cross-sectional analysis and applications of regression methods. (SO)

Prerequisite: MGS 2150

MGS 3520 Business Ethics and Corporate Social Responsibility (3)

This course is designed to explore business ethics and corporate social responsibility as they become more critical in the business environment in the twenty first century. As business becomes more global, business ethics and social responsibility continue to be an integral part of business itself. In a comprehensive approach to the field of business, this course covers understanding the dynamic environment of business, integrating business strategy with new challenges for business, identifying key issues of business ethics and social responsibility, and current topics in a more competitive business environment.

MGS 3360 Social Entrepreneurship (3)

This course introduces the field of social entrepreneurship which develops innovative business frameworks that provide solutions to important societal problems (e.g. poverty, hunger, human rights, homelessness, education and healthcare to disadvantaged populations, fair trade, economic development, and environmental sustainability). Students learn about forms of social entrepreneurship (e.g. nonprofit, for-profit, and hybrid organizations), opportunity recognition, strategic planning, funding, evaluation, and scaling to positively impact society in a local and global environment.

Prerequisites: MGS 3013, MGS 3520

MGS 4010 Operations Management (3)

Analysis of production operations in manufacturing and service operations. Production planning, systems and control introduced and related to such recent methodological developments as inventory forecasting, PERT/CPM, operations scheduling and queuing theory. (E), (SSI)

Prerequisites: MGS 2150, MGS3040

MGS 4030 Management and Unions (3)

An analysis, assessment and understanding, from both a theoretical and practical perspective, of the respective roles of private sector employers and unions in the labor-relations process, with a particular emphasis on the purpose and function of collective bargaining. (E)

Prerequisite: MGS 2030 MGS 3030

MGS 4045 Compensation Management (3)

This course is to examine, understand, and design compensation system that promotes organizations' competitive advantages. Topics include but are not restricted to the following: context of compensation practice, compensations strategy, pay structure, types of compensation, job analysis and evaluation, internal and external compensation equity, indirect compensation, compensation for special groups, international compensation systems, and contemporary challenges in compensation. (SP)

Prerequisite: MGS 2030 MGS 3030

MGS 4090 Career Management (3)

An investigation, employing multi-disciplinary perspectives, of career management as a systematic process and as a series of techniques. Topics will include: labor market dynamics and trends; career options, stages, paths and strategies; planning, pursuing, advancing and changing careers; organizational hiring, promotion and termination practices; employment search procedures and skills. Case studies and student experiences will be employed to examine the application of career management techniques and strategies. (E)

Prerequisite: Junior or senior status

MGS 4120 Introduction to Supply Chain Management (3)

Supply Chain Management (SCM) is concerned with the efficient integration of suppliers, factories, warehouses and stores so that products and services are distributed to customers in the right quantity, at the right time, with lowest costs. This course explores the key issues associated with the design and management of industrial Supply Chains (SC). Important concepts, principles, and strategies of SCM as well as tools and techniques to solve real SC problems will be included. The course will focus on practice-oriented learning process and enhancing analytical and problem-solving skills through discussing and analyzing innovations and cutting edge research as well as real business cases. (SP)

Prerequisites: MGS 4010

MGS 4130 Introduction to Total Quality Management (3)

This course examines concepts, tools, techniques used in the management and measurement of quality, productivity, and competitiveness. The course focuses on the management culture, philosophy, practices, and processes to develop a total quality orientation. Ideas and topics covered are: process improvement; process orientation; service quality; human resources; customer satisfaction programs; quality function deployment; process control and capability; role of inspection; economics of quality; productivity measurement; learning and organizational performance measures. (E)

Prerequisites: MGS 4010

MGS 4150 Introduction to Supply Chain Sourcing and Procurement Management (3)

This course is an overview of purchasing management in Supply Chains. Purchasing and procurement relationships exist between internal functional groups, as well as with suppliers and/or customers. Topics that are covered in this course include: supply market intelligence, relationship assessment and management, negotiation, contracting, and managing conflict in business relationships. The course emphasizes on collaboration and strategy execution, assessing, establishing metrics/expectations, contracting, and managing external business relationships in Supply Chain sourcing, logistics, and operations. (FA)

Prerequisites: MGS 4120

MGS 4160 Warehousing and Material Management (3)

This course explores the key issues associated with the design and management of warehousing and material handling. This is a survey course intended to expose students to a vast array of issues in warehousing and material handling. Successful students will become familiar with important considerations in warehouse activity profiling, warehouse performance measures, warehouse automation, receiving, order picking, warehouse layout, and warehouse workforce development. (FA)

Prerequisites: MGS 4120

MGS 4360 Entrepreneurship Practicum (3)

A hands-on business experience course working with an entrepreneur organization. Students will work either individually or on a team to develop actionable recommendations for a business problem posed by an entrepreneur client organization.

Prerequisite: MGS 3013

MGS 4801-4806 Cooperative Education/Internship (1-6)

Selected majors test theories learned in the classroom with on-the-job experience in a career-related area. Assignments and placements are arranged by the department. Seminars, student reports and term papers required. Credits earned count as free electives but no more than a total of 40 credits in Management, including Coop Ed/Internship courses, can be used toward the 124-credit requirement for graduation. (E)

Prerequisites: Permission of the department, junior or senior status and a G.P.A. of 3.0

MGS 4700 Global Business Practicum (3)

Student teams consult with area businesses on international market expansion plans. Students apply skills from prior coursework to identify potential markets and present their findings to the assigned firm.

Prerequisite: Approval of department

MGS 4888 Travel Learn: Business Across Cultures

An educational survey of the economic, trade, cultural and geo-political drivers of a designated region/country. Emphasis is upon learning through supervised on-site experience with businesses, government, non-governmental organizations, nonprofit organizations, and cultural institutions. The travel-learn experience is designed to facilitate understanding of global business environment. Tour duration approximately ten to fifteen days; destination and travel costs vary. Course may be repeated once for credit if the destination is different. (SP)

Prerequisite: MGS 2030 or MKT 2500

MGS 4999 Integrative Business Strategy (3)

Capstone for business core. General Management issues and decisions, quantitative and qualitative analysis of external and internal factors affecting firm performance. Use of case analysis of external and internal factors affecting firm performance. Use of case analyses and competitive business simulation for integration of functional and strategic decisions. Writing Emphasis course. (E), (SSII)

Prerequisites: All business core courses

Marketing

Executive Director: Dr. Shanggeun Rhee

Coordinator: (Marketing): Dr. Valerie Vaccaro

Marketing focuses on understanding, targeting and satisfying consumer markets on a global scale by offering superior value, innovation, and relationships. Students learn how to benefit from local, national and global market opportunities and trends through the conception and implementation of well-differentiated marketing tactics and strategies. The marketing major emphasizes the knowledge, skills, and concepts necessary for effective performance in the various functional areas of marketing (such as advertising, product development, marketing research, distribution). The field integrates economics, sociology, psychology, and statistics to develop marketing systems and processes. The marketing electives offer an opportunity for students to choose areas of more specialized knowledge according to their interests and career goals.

The marketing program empowers students to pursue career opportunities in a broad range of fields including, brand management, advertising, public relations, marketing communications, media, market research, retailing and logistics, international trade and marketing, sales management, client relations, E-business, social media, sports and entertainment, leisure, hospitality and tourism, event planning, consulting, entrepreneurial ventures and non-profit organizations.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-business-public-management>

ADMISSIONS REQUIREMENTS:

The following are the requirements for admission into the Marketing Major:

- 1) The student must have a grade point average of 2.5 on 30 or more completed semester hours. If fewer than 30 semester hours have been completed at Kean, GPA will be calculated using coursework from all transfer institutions attended.

- 2) Complete the **Foundation Coursework** with a grade of 'C' or better,

ENG 1030 College Composition

COMM 1402 Speech Communication as Critical Citizenship

MATH 1044 OR MATH 1054 Pre-Calculus

GE 2021 Research & Technology

Additional courses to be completed with a grade of 'C' or better to declare major:

ECO 1020 Principles of Economics I (Macroeconomics)

ECO 1021 Principles of Economics II (Microeconomics)

CPS 1032 Microcomputer Applications

ACCT 2200 Principles of Accounting I

MGS 2150 Business Statistics & Applications

NOTE: For students admitted prior to September 1, 2014, follow the program requirements specified in the catalog for the year you entered Kean. See academic advisor for details.

B.S. DEGREE IN MARKETING

GENERAL EDUCATION 35

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition 3

MATH 1044 or MATH 1054 Pre-Calculus for Business 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2021 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 6

ENG 2403 World Literature 3

AND (select one of the following)

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 6

HIST 1062 Worlds of History 3

AND (select one of the following)

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 7

CPS 1032 Microcomputer Applications 3

AND

(select one course of the following sciences)

Biology 4

Chemistry or Physics 4

Astronomy, Earth Science, Geology, or Meteorology 4

Interdisciplinary 4

ADDITIONAL REQUIREMENTS 12

ECO 1020 Principles of Economics I (Macroeconomics) 3

ECO 1021 Principles of Economics II (Microeconomics) 3

ENG 3090 Business & Professional Writing 3

COMM 3590 Bus & Professional Communication 3

MAJOR/GE CAPSTONE COURSE 3

MGS 4999 Integrative Business Strategy 3

ACADEMIC MAJOR REQUIREMENTS 58

BUSINESS CORE COURSES 34

MGS 2030 Principles of Management 3

MGS 2150 Business Statistics & Applications 4

ACCT 2200 Principles of Accounting I 3

ACCT 2210 Principles of Accounting II 3

BLAW 2051 Business Law I 3

FIN 3310 Corporate Finance I 3

MKT 2500 Principles of Marketing 3

MGS 3040 Management Information Systems 3

MGS 3110 Managerial Decision ML 3

MGS 3520 BUS Ethics and CSR 3

MGS 4010 Operations Management 3

MARKETING CORE COURSES 12

MKT 3510 Consumer Behavior 3

MKT 3550 Marketing Research 3

MKT 4220 International Marketing 3

MKT 4500 Seminar in Marketing Strategy 3

MARKETING ELECTIVES 12

Choose four courses 3000-4000 level courses from the marketing courses

MKT 3260 Retail Marketing 3

MKT 3240 Professional Selling 3

MKT 3430 Advertising & Marketing Communications 3

MKT 3480 Sports Marketing 3

MKT 3490 Internet Marketing 3

MKT 3500 Direct Marketing 3

MKT 3610 Buying and Merchandising 3

MKT 3630 Advertising Media Planning 3

MKT 3640 Sales Management 3

MKT 3650 Marketing Channels 3

MKT 3660 Services Marketing 3

MKT 3690 Business to Business Marketing 3

MKT 3720 Logistics & Transportation 3

MKT 4230 Advertising Campaigns 3

MKT 4240 Contemporary Issues in Marketing 3

FREE ELECTIVES 19

Selected with advisement.

At least 50% must be at 3000 level or above.

MKT 4801 - 4806 Cooperative Education may be used here.

TOTAL 124

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

MINOR IN MARKETING

The following requirements are subject to change. Please check with the School of Management and Marketing for current requirements.

REQUIREMENTS 18

FOUNDATION COURSES

MGS	2030	Principles of Management	3
MKT	2500	Principles of Marketing	3

REQUIRED COURSE 9

MKT	3510	Consumer Behavior	3
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ELECTIVE COURSES (3000/4000 LEVEL)

Marketing course	3
Marketing course	3
Marketing course	3

Notes:

Minor in Marketing not open to students pursuing BS in Management – General Business.

Minor Elective Courses cannot be applied for both the major and the minor. The elective courses must be in addition to the courses required for the major.

Courses used for the minor must be taken on a letter-grade basis and earn a 'C' or better.

Student must have a 2.5 GPA in the minor.

MKT 4801-MKT 4806 Coop/Internship may not be used for minor.

MARKETING COURSES

MKT 2500 Principles of Marketing (3)

Course provides an extensive overview of the concepts, principles and activities that comprise contemporary marketing management. Specific topics include customer behavior, competitive analysis, segmentation, market research, product planning, pricing, channels of distribution, and promotion. Additional attention is focused on international marketing, services marketing, societal and non-profit marketing, and marketing ethics. (E), (SSI)

Prerequisites: COMM 1402, GE 2021

MKT 3240 Professional Selling (3)

The course deals with the nature of professional selling and its role in the marketing and promotional functions of an organization. Topics include customer relationship building, adaptive selling techniques essential for professional selling, and sales careers. Special emphasis is placed on effective oral and written communication and presentation skills needed to be a successful salesperson. (SP)

Prerequisite: MKT 2500.

MKT 3260 Retail Marketing (3)

This course focuses on concepts and strategies essential for all types of retail operations. The course explores retailing formats, evolving technology in retailing, merchandising, pricing, retail location, retail communication strategies, store design and layout, customer service, and human resource management issues. Case studies and field projects are used to apply the concepts. Course is equally useful for students interested in working for companies that interface with retailers such as manufacturers of consumer products or for students with a general management interest. (FA)

Prerequisite: MKT 2500.

MKT 3430 Advertising & Marketing Communication (3)

This course studies advertising and integrated marketing communications (IMC) programs which include: advertising, sales promotion, direct marketing, public relations, and personal selling. The industry will be analyzed including the advertisers, agencies, and media. Topics include promotional objectives, advertising strategy, research methods, advertising copy and production, media planning and advertising evaluation. (FA)

Prerequisite: MKT 2500.

MKT 3480 Sports Marketing (3)

Sports marketing is a study of basic marketing concepts with applications to sports organizations, both amateur and professional. Topics include promotions and public relations of sports activities and teams, fan behavior, and the marketing and financial issues of the relationship between athletes and sponsors. (SP)

Prerequisite: MKT 2500.

MKT 3490 Internet Marketing (3)

This course is designed as an introduction to the rapidly evolving world of Internet Marketing. The tools and technology of the Internet are explored with an emphasis on the opportunities, problems, tactics and strategies of using the Internet as a marketing tool. B2B and B2C business models are discussed as they relate to integrating online and offline strategies into a unified, comprehensive marketing strategy. (FA)

Prerequisite: MKT 2500.

MKT 3500 Direct Marketing (3)

This course provides an overview of the principles, concepts and applications of direct marketing, an increasingly important marketing communications tool. Students learn about successful direct marketing strategies using tools including: customer database management, direct mail, catalogs, the internet, print, broadcast and telephone marketing. Key industry challenges including ethical issues are analyzed. (SP)

Prerequisite: MKT 2500.

MKT 3510 Consumer Behavior (3)

This course provides insight into the motivations, influences, and processes underlying consumption behavior. It involves a review and analysis of social and behavioral theories as they relate to understanding and predicting marketplace behavior. Students learn to interpret, evaluate, and apply consumer behavior research for investigating consumers' buying habits, pre-purchase decision processes, and post-purchase evaluation processes. (E)

Prerequisite: MKT 2500.

MKT 3550 Marketing Research (3)

Marketing research is the process of obtaining information to guide managers in their marketing activities. The course helps students recognize and define information needs, design and implement research projects, and learn to interpret and evaluate results presented. The course involves statistics to the extent it is helpful in making decisions. Students acquire a good understanding of both qualitative and quantitative research techniques and apply them to a marketing research project during the semester. (SP)

Prerequisite: MKT 2500 and MKT 3510 and MGS 2150 OR ECO 2120.

MKT 3610 Buying & Merchandising (3)

This course examines the roles and responsibilities of buyers and merchandising managers that must balance the (1) needs of retailer, (2) objectives of vendors, and (3) the preferences of consumers. Consumer trends, inventory and retail store reports analysis, budgeting issues, assortment planning, merchandise displays and aids for merchandise controls are undertaken. The course is well suited to prepare students for careers as a vendor, buyer, or retailer of consumer goods and services. (SP)

Prerequisite: MKT 2500, MKT 3260

MKT 3630 Advertising Media Planning (3)

This course provides students with an overview of the principles, concepts, and application of the important function of media planning for advertising campaigns. The course focuses on media objectives, strategies, and tactics to deliver advertising messages. This includes selection and buying of media including broadcast, print, Internet, and nontraditional media. Current industry trends will be studied. The role of all promotional tools will be examined (advertising, public relations, trade and consumer promotions, direct marketing) to develop and evaluate effective integrated marketing communication plans. (SO)

Prerequisite: MKT 2500, MKT 3430

MKT 3640 Sales Management (3)

This course examines the activities and issues related to sales managers. Discussion topics include: selling process, developing forecasts, territory design, sales force planning, budgeting, sales force recruiting, training, motivating, performance evaluation, and sales force compensation. Students are also provided with a good understanding of ethical and legal responsibilities of sales managers. (SE)

Prerequisite: MKT 2500.

MKT 3650 Marketing Channels (3)

The course offers a detailed examination of marketing channels as a functional area of marketing. Covers manufacturers, services providers, wholesalers, transportation companies, and other actors in marketing channels. Focus on behavior dimensions of channel relations, the role of channel members, channel conflicts and channel control. (FO)

Prerequisite: MKT 2500.

MKT 3660 Services Marketing (3)

The course addresses unique aspects of services, such as intangibility, lack of inventory and close interaction between provider and customer, as well as the associated marketing and management tasks for the provider, including managing demand and human resources. Determinants of service quality, the critical role of customer contact employees in service delivery and the role of emerging technologies in customer service are examined. (SP)

Prerequisite: MKT 2500, MKT 3510

MKT 3690 Business To Business (B2B) Marketing (3)

Business to business (B2B) marketing deals with activities directed toward businesses, governments and not-for-profit organizations. The course seeks to provide an understanding of how to create and deliver value to business customers with an emphasis on building B2B customer relationships. Topics include market segmentation, forecasting demand, sales management, planning supply chain resources, pricing & negotiation, building business networks and the impact of changing technology on business-to-business marketing. (E)

Prerequisite: MKT 2500.

MKT 3720 Logistics & Transportation (3)

The course focuses on the study of logistics and transportation services in the marketing of goods and services. Topics covered include customer service, distribution operations, contracts, order processing, carrier selection, transportation costing, and negotiation. The role of information technology and the application of various techniques used in establishing and enhancing customer value as well as maintaining relative cost advantage are emphasized. (SO)

Prerequisite: MKT 2500, MKT 3260.

MKT 4220 International Marketing (3)

An in-depth study of marketing principles as they relate to the global marketplace. Explains the impact of cultural, financial, technological, governmental, organizational, and demographic factors on the integrated marketing mix. Focuses on the development of analytical and planning sophistication to support an international marketing strategy for brand, product line, or business unit. (E), (SSI)

Prerequisite: MKT 2500.

MKT 4230 Advertising Campaigns (3)

This course analyzes contemporary advertising campaigns in terms of research, marketing, creative, and media strategies used for integrated marketing communications programs to achieve promotion and marketing mix goals. Students prepare goal-oriented advertising campaigns. (SE)

Prerequisite: MKT 2500, MKT 3430.

MKT 4240 Contemporary Issues in Marketing (3)

This course is designed to explore emerging issues and challenges in marketing. Topics include Customer Relationship Marketing, Marketing Yourself, Entrepreneurship Marketing, New Technology Marketing, New Product Development, and Social and Non-for-profit Marketing. The course has an experiential component including the use of analytical tools and case analyses. (FA)

Prerequisite: MKT 2500.

MKT 4300 New Product Development (3)

This course integrates aspects of strategic management, entrepreneurial mind-set, creativity and innovation to develop skills and capabilities needed to create and launch new products. Emphasis is placed on identifying opportunity, generating product concept, evaluating the new product project, and developing and launching the product. Best practices and cases using the latest examples are covered to help maximize launch and success of new products.

Prerequisites: MGS 2030, MKT 2500, MGS 2150

MKT 4500 Seminar in Marketing Strategy (3)

This is an integrative course in marketing planning and strategy. The course is applications oriented, focusing on formulating and implementing marketing strategy. It explores issues of how to create and sustain customer value—from market analysis and product positioning to communications and channel systems design. The course emphasizes learning-by-doing through a marketing computer simulation. (FA)

Prerequisites: MKT 2500, MKT 3510, MKT 3550, MKT 4220.

MKT 4801 through 4806 Cooperative Education - Marketing (3)

Students gain one or two semesters of on-the-job experience in various aspects of marketing. Co-op/Internship must have academic value beyond that of practical employment to qualify for credit. The co-op/internship must also have a logical integration with the student's academic major. It is the student's responsibility to develop co-op/internship experience which clearly has academic value to the student's major and have it approved by the faculty coordinator. No more than six (6) credits in co-op education can be used. The faculty coordinator will determine placement and appropriate number of credits granted. (E)

Prerequisite: Juniors and seniors majoring in marketing and subject to approval by faculty coordinator.

MKT 4888 Travel Learn: Business Across Cultures

An educational survey of the economic, trade, cultural and geo-political drivers of a designated region/country. Emphasis is upon learning through supervised on-site experience with businesses, government, non-governmental organizations, nonprofit organizations, and cultural institutions. The travel-learn experience is designed to facilitate understanding of global business environment. Tour duration approximately ten to fifteen days; destination and travel costs vary. Course may be repeated once for credit if the destination is different. (SP)

Prerequisite: MKT 2500 or MGS 2030.

School of Global Business

Executive Director: Dr. Geoffrey Mills

Manager of Global Initiatives: Paul Goncalves

The mission of Kean University's School of Global Business is to provide a world-class education to demographically, economically, and culturally diverse students who are motivated to become the next generation of successful, socially-responsible global leaders, innovators, and entrepreneurs. Our school offers students a demanding and dynamic program of excellence taught by expert and caring faculty with exposure to best global business practices.

ADMISSIONS REQUIREMENTS:

The following are the requirements for admission into the Global Business Major:

1) The student must have a grade point average of 3.0 on 30 or more completed semester hours. If fewer than 30 semester hours have been completed at Kean, GPA will be calculated using coursework from all transfer institutions attended.

2) Complete the **Foundation Coursework with a grade of 'C' or better,**

ENG 1030 College Composition

COMM 1402 Speech Communication as Critical Citizenship

MATH 1044 OR MATH 1054 Pre-Calculus

GE 2021 Research & Technology

Additional courses to be completed with a grade of 'C' or better to declare major:

ECO 1020 Principles of Economics I (Macroeconomics)

ECO 1021 Principles of Economics II (Microeconomics)

CPS 1032 Microcomputer Applications

ACCT 2200 Principles of Accounting I

MGS 2150 Business Statistics & Applications

NOTE: Global Business majors must maintain the 3.0 GPA to continue in the major and graduate. All major courses require a minimum grade of "C".

B.S. DEGREE IN GLOBAL BUSINESS

GENERAL EDUCATION 35

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1044 or MATH 1054 Pre-Calculus for Business 3

COMM1402 Speech Communication 3

GE 2021 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 6

ENG 2403 World Literature 3

Foreign Languages 3

Social Sciences 6

HIST 1062 Worlds of History 3

AND (select one of the following)

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary ID 2415 3

Science & Mathematics 7

CPS 1032 Micro Applications 3

AND (select one of the following sciences)

Biology 4

Chemistry or Physics 4

Astronomy, Earth Science, Geology, or Meteorology 4

ADDITIONAL REQUIREMENTS 15

ECO 1020 Principles of Economics I (Macroeconomics) 3

ECO 1021 Principles of Economics II (Microeconomics) 3

ENG 3090 Business & Professional Writing 3

COMM3590 Bus & Prof Comm 3

Foreign Languages 3

MAJOR/GE CAPSTONE COURSE 3

MGS 4999 Integrative Business Strategy 3

ACADEMIC MAJOR REQUIREMENTS 61

BUSINESS CORE COURSES 34

MGS 2030 Principles of Management 3

MGS 2150 Business Statistics & Applications 4

ACCT 2200 Principles of Accounting I 3

ACCT 2210 Principles of Accounting II 3

BLAW 2051 Business Law I 3

FIN 3310 Corporate Finance I 3

MKT 2500 Principles of Marketing 3

MGS 3040 Management Information Systems 3

MGS 3110 Managerial Decision ML 3

MGS 3520 BUS Ethics and CSR 3

MGS 4010 Operations Management 3

Global Business Core: 12

MGS 3032 Org Behavior 3

MGS 3035 Intern. Mgt. 3

MGS 3025 Intern.Bus/Trade 3

MKT 4220 Intern. Mkt 3

Global Business Practica: 3

GBUS 4810 Global Business Practicum 3

I.C.E. Requirements: 6

GBUS 4320 Sustainable Global Business & Technology 3

GBUS 4330 Innovation 3

Global Business Electives: 6

2 courses from:

MGS 3045 Commercial Devlment. of the Internet 3

GBUS 4500 Contemporary Topics in Global Business 3

GBUS 4200 Global Finance 3

ACCT 4270 International Acct 3

GBUS 4300 Global Ops 3

GBUS 4310 Research Analytics 3

FREE ELECTIVES 13

Upper level 6

Lower level 7

TOTAL 124

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

GLOBAL BUSINESS COURSES

GBUS 4200 Global Financial Markets and Institutions (3)

Global Financial Markets and Institutions examines the international capital and money markets environment, and the challenges and opportunities it presents for financial managers. With the increased internationalization of the financial community, the need to understand how exchange rates are set and how the international financial markets function have become of utmost importance to investors, intermediaries, governments as well as to corporation. Topics will include interest rate determination, exchange rate determination, financial intermediation, regulation of financial institutions and services, and the role of the Federal Reserve and other Central banks. Emphasis on foreign exchange management, international capital markets, the international treasury functions, the European monetary systems, Development Banks and the Emerging Capital markets are examined.

Prerequisites: FIN 3310, MGS 3025

GBUS 4300 Managing Global Operations (3)

This integrative course is designed to introduce the principles and practices of effectively managing global operations.

Global managers interact with complex and dynamic environments where-in they must analyze and respond to the economic, trade, political, legal, geographic, geo-political, demographic, technological, competitive and ethical drivers that shape their operations and growth strategies.

Successfully managing such global interdependence depends on cultural sensitivity as well as, competence in formulating and implementing global strategy within the multi-faceted interplay among the home-country and host-countries' management values and practices.

Special emphasis is dedicated to global market strategy and human resources management.

Prerequisites: MGS 2030, MGS 3025, MKT 2500, 2.5 GPA

GBUS 4310 Global Business Research and Analytics (3)

This course provides students with a comprehensive understanding of business research and analytics. The course addresses the research design of experiments, data collection and recording, analyzing, interpreting, and presenting the findings. Students will learn how to use data to make decisions in research and development, production, accounting, finance, management, marketing, and supply chain management. The course will focus on the importance of cross-cultural business research and ethical and moral challenges. Relevant statistical software package will be used to analyze the data.

Prerequisites: MGS 2150

GBUS 4320 Sustainable Global Business and Technology (3)

This course provides students with a comprehensive understanding of sustainable global business and technology. The course will focus on the principles of sustainability, government and public policy, environmental and social responsibility, and how sustainability becomes an important phenomena for all types of organizations. Upon completion, students should be able to demonstrate an understanding of the role of sustainability in building a healthy environment for all stakeholders in terms of economic prosperity, social well-being, and environmental quality.

Prerequisites: MGS 2030

GBUS 4330 Innovation and Entrepreneurship (3)

This course focuses on theories and practices of innovation and entrepreneurship. The role of entrepreneurs in creating jobs and prosperity will be discussed. Students will understand the relationship between innovation and entrepreneurship and how companies use creativity and innovation to introduce new products and/or improve existing products to gain a sustainable competitive advantage. Students will be guided to work individually or in groups for generating new innovation ideas and turn those ideas into product concepts or real goods, services, and processes. Students will learn how to write a well-structured business plan.

Prerequisites: ECO 1020, ECO 1021, MKT 2500, MGS 2030

GBUS 4500 Contemporary Issues in Global Business (3)

This course is designed to explore emerging issues and challenges in marketing. Topics such as Marketing for Social Profit, Entrepreneurship Marketing in a Global Context, Sustainable Business & Social Entrepreneurship, Social Entrepreneurship Through Microfinance and Global Health & Business are considered.

Prerequisites: Completion of 75 credit hours; 3.25 GPA overall GPA

GBUS 4810 Global Business Practicum I (3)

A hands-on business experience course in an international setting. Emphasis is upon learning while working in a cross-cultural team to solve and develop actionable recommendations for a business problem posed by a client firm. Students may begin work as virtual teams before traveling to the host country on a two to four week assignment to complete the project. Additional fees are associated with this course.

Prerequisites: GBUS majors; 3.25 GPA overall GPA

GBUS 4820 Global Business Practicum II (3)

A hands-on business experience course in an international setting. Emphasis is upon learning while working in a cross-cultural team to solve and develop actionable recommendations for a business problem posed by a client firm. Students may begin work as virtual teams before traveling to the host country on a two to four week assignment to complete the project. Additional fees are associated with this course.

Prerequisites: GBUS majors; 3.25 GPA overall GPA.

College of Education

Acting Dean, Dr. Anthony A. Pittman

Assistant to the Dean, Mr. Ronald Dowdell

Assistant to the Dean, Ms. Melissa Tomich

The College of Education at Kean University has maintained its accreditation from the National Council for Accreditation for Teacher Education (now Council for the Accreditation of Educator Preparation) since 1954. The institutional home of three consecutive Teachers of the Year, the College continues to uphold its recognition as one of the largest producers of teachers of the finest quality for the state of New Jersey.

Having earned a world-class education, graduates from the College make significant contributions to the world in which they live, changing for the better, the lives of the countless students under their tutelage. The College boasts faculty who are committed to the delivery of instruction of the highest caliber and who passionately engage research, representing prominent scholars in their respective fields.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-education/collegeprogram-mission-and-slos>

The following Schools are housed in the College of Education:

School of Curriculum and Teaching, Dr. Gilda DelRisco, Executive Director – Hutchinson Hall 330 B (908) 737-3902

School for Global Education and Innovation, Dr. Michael Searson, Executive Director – Kean Hall 225 (908) 737-7147

School of Physical Education, Recreation and Health, Dr. Jessica Adams, Executive Director – D'Angola 206 (908) 737-0654

School of Special Education and Literacy, Dr. Joan Kastner, Executive Director – Hutchinson Hall 205 B (908) 737-3942

ACADEMIC DEGREES, PROGRAMS

B.S. in Athletic Training

B.S. in Physical Education

- Global Fitness and Wellness Option

B.S. in Physical Education and Health

- Teacher Certification Option P-12

B.A. in Early Childhood P-3, K-6

B.A. in Elementary Education K-6

B.A. in Elementary Education K-6 with Bilingual Certification

B.A. in Elementary Education K-6, 5-8

B.A. in Elementary Education K-6, 5-8 with Bilingual Certification

B.A. in Recreation Administration

- Commercial Recreation Option

- Community Recreation Option

- Therapeutic Recreation Option

B.A. in Spanish

- Spanish Teacher Certification Option P-12

B.A. in Special Education - Teacher of Students With Disabilities

Options include: P-3, K-6, and K-6/5-8

(For secondary programs (P-12), see programs in the Colleges of Natural Sciences, Humanities and Social Sciences, and Visual and Performing Arts).

All incoming students must earn a grade point average of 3.0 in order to be admitted as a declared major in all certification programs.

ACADEMIC CONTENT AREAS AND ACADEMIC MAJORS

Academic Content Areas (P-3 and K-6 Early Childhood, Elementary Education, Elementary Bilingual and Special Education Majors Only)

- Students in these programs may elect an academic content area program of study or may select a full academic major.
- P-3, K-6 and Special Education majors need a minimum of 30 credits in Liberal Arts, Math or Science. Note: All courses in the academic content areas must be completed with a minimum grade of "C" (may be higher in other areas) and an overall GPA of 3.0 or higher. As such they may elect an academic content area (which range from 30-36 credits) or a full Academic Major in one of the areas (which range from 30 to 45 credits).
- Students who choose to complete Academic Content Areas must satisfy prerequisite and co-requisite requirements in each area (students must see the department advisor for advisement regarding course requirements, prerequisites and co-requisites) and earn no less than a C in each course with the exception of areas in History and Music. Transfer students must complete at least one half of the content area at Kean University.
- P-3 and K-6 students who wish to be eligible for Middle and Secondary licensure must complete a full Academic Major in the appropriate program in Liberal Arts, Math or Science.

ACADEMIC MAJORS

- All K-6, 5-8 students intending to teach Middle School must complete a full Academic Major in the appropriate program in Liberal Arts, Math or Science. Middle School candidates may choose Academic Majors in English, History, Mathematics, Earth Science, Chemistry, Biology or Spanish only. Note: Students who wish to pursue the P-12 certificate in Spanish must take EMSE 3250 as an added requirement.

- The number of credits required to complete Academic Majors vary depending on the major and the number of additional requirements needed (a minimum of 30 credits is required). For state certification in P-12, all academic major programs must have at least 12 S.H. of their courses at the 3000/4000 level. Transfer students must complete at least one half of the major at Kean University.
- Middle School candidates must satisfy all prerequisites and co-requisites for their respective programs according to the policies in each department (students should see the department advisor regarding such policies).
- Secondary candidates seeking P-12 licensure may choose any P-12 approved major and must complete all requirements for that major. Note: All courses in the academic major must be completed with a minimum grade of "C" (may be higher for some majors) and an overall GPA of 3.0 or higher.

MINOR PROGRAMS

American Sign Language

Chinese Studies

French Studies

Health Education

Recreation

Spanish

PRAXIS INFORMATION

Core Academic Skills for Educators

All certification candidates must earn the New Jersey Qualifying scores on all three parts of the Core Academic Skills for Educators examination as of 9/1/13. In order to be admitted into their respective programs with declared status, candidates must earn passing scores which are determined by the State of New Jersey and are subject to change:

Combined test code (5751)

Math - 150 (Test Code # 5732)

Reading - 156 (Test Code # 5712)

Writing - 162 (Test Code # 5722)

Students who do not earn passing scores in all three areas will not be declared for the major or permitted to enroll in professional education courses (with the exception of the introductory field experience). As of 9/1/2015, passing the Core Academic Skills exam will become a New Jersey State Department of Education requirement for admission to a Teacher Education Program.

All students in certification programs are required to submit a passing score on the appropriate Praxis II examination (some programs require more than one Praxis II examination and a passing score on all is required). Middle School candidates must take and pass the Elementary Education Multiple Subjects examination #5001 and the examination in their academic specialization. Early Childhood candidates - P-3/K-6, must take and pass the Elementary Education Multiple Subjects examination #5001 and the Early Childhood General Content Knowledge examination.

Secondary candidates must take and pass the examination in their academic specialization. No student will be permitted to enroll in the professional field experience without a passing score(s) on the Praxis II examination.

Students are encouraged to prepare for and take Praxis II as early as possible to have sufficient time to earn a passing score.

The Teaching Performance Center must receive score reports for the Core Academic Skills exam for Pre-Professional Field the semester before placement and passing Praxis II scores for Professional Field the semester before placement (see published dates for submission of field applications including score reports by TPC). Inquire at the Center in Hennings Hall, Room 215 for field applications and more specific information.

GRADUATION POLICY FOR TEACHER EDUCATION STUDENTS

Students seeking a B.A. degree in Education will graduate with eligibility for teacher certification if all university and state licensure requirements have been met: The requirements include the completion of a passing score for Praxis II, a minimum cumulative grade point average of a 3.0 and the completion and passing of the Professional Internship experience.

Any student seeking to graduate without teacher certification must change from a teacher education option to their academic content area or academic major and graduate from that program in the College of Humanities and Social Science, College of Natural, Applied and Health Sciences, College of Business and Public Administration or the College of Visual and Performing Arts.

This policy excludes majors in two certification areas: 1) Physical Education and 2) Health and Physical Education.

POST BACCALAUREATE TEACHER CERTIFICATION PROGRAM

The Post Baccalaureate Teacher Certification Program is designed to permit individuals who already hold the baccalaureate degree with a GPA of 3.0 or higher to secure either an initial teaching certificate or additional teaching certificates. The following certificates are offered on the undergraduate level: Early Childhood (P-3 only), Elementary Education, Art, Theatre, English, Spanish, Health and Physical Education, Speech Arts and Theatre, Earth Science, History, Bilingual/Bicultural Education, Social Studies, Biology, Chemistry, Mathematics and Music. Endorsement options in Middle School certification for Mathematics, Science, Social Studies, World Languages (Spanish) and Language Arts are also offered. Contact the Office of Teacher Certification for more information on the Middle School endorsements and the Post Baccalaureate Program.

The Core Academic Skills for Educators test battery is required for admission for any applicant seeking initial teacher certification.

In addition, Praxis II is required by the New Jersey Board of Licensure and Credentials for most areas of Instructional teaching certificates. For all Early Childhood (P-3) and

Elementary (K-6) Post-Baccalaureate admission candidates, submission of Early Childhood and Elementary Education Multiple Subjects. These Praxis II scores are required prior to acceptance into the program.

For those candidates seeking P-12 (Secondary) subject area certification, a bachelors degree in the subject area and a passing score on the appropriate Praxis II examination is required prior to admission.

Please note that Special Education certification cannot be achieved in the Post Baccalaureate program. Special Education is considered an endorsement and candidates must achieve an instructional certificate in another certification area first, i.e. Elem.Ed, P-3, P-12 levels. See the Nathan Weiss Graduate College catalog for more information.

The Undergraduate Teacher Certification Office is located in Hennings Hall, room 214, (908) 737-3800

DEPARTMENTS AND SCHOOLS, FACULTY

Program in Early Childhood and Family Studies, School of Curriculum and Teaching

Faculty: Chen, de Groot-Kim, Del Risco (Executive Director), Garnett, Higgins, Knight, Rosen

Programs in Elementary and Bilingual Education, School of Curriculum and Teaching

Faculty: DelRisco (Executive Director) Ippolito, Nieves, Verdi, Walko

Programs in Middle and Secondary Education, School of Curriculum and Teaching

Faculty: Cahir, Del Risco (Executive Director), Kolodiy, Merlo, Pittman, Walsh, Weiner

School of Physical Education, Recreation and Health

Athletic Training Faculty: DiVirgilio

Physical Education Faculty: Adams (Executive Director), Andzel, Bakker, Martinez, Palgi, Pschorr, Szekeres

Recreation Faculty: Kim, McKenzie, Stavola-Daly

Health Faculty: Bonillas, Bowe, Curran, Palmieri

School of Special Education and Literacy

Faculty: Burke, Havens, Higgins, Kastner (Executive Director), Kling, Lee, Polirstok, Rey, Schuman, Strigari, Tracey, Young

School for Global Education and Innovation

Faculty: Pintado-Casas, Searson (Executive Director), Shepherd

COURSE SCHEDULING FREQUENCIES

At the end of the course description is a code in parenthesis that indicates the frequency the course is offered to assist students in planning their registration.

Key:

E = Every Semester

FA = Every Fall

SP = Every Spring

FE = Fall, Even Years

SE = Spring, Even Years

FO = Fall, Odd Years

SO = Spring Odd Years

E3 = Every Third Semester

WS = Every Winter Session

SSI = Every Summer Session I

SSII = Every Summer Session II

SSIE = Summer Session I, Even Years

SSIO = Summer Session I, Odd Years

SSIIIE = Summer Session II, Even Years

SSIIIO = Summer Session II, Odd Years

School of Curriculum and Teaching

The School of Curriculum and Teaching houses the following programs: Early Childhood & Family Studies, Elementary Education and Bilingual Education, and Middle and Secondary Education.

The Early Childhood and Family Studies program is based on well-researched theories of child development and reflects the position document on Developmentally Appropriate Practice in Early Childhood Programs, adopted by the National Association for the Education of Young Children (NAEYC, 2009).

The Elementary Education and Bilingual Education program prepares students for an exciting academic career that involves a rich and challenging array of learning experiences to prepare you for New Jersey certification K-6 (Kindergarten – Grade 6).

The Middle and Secondary Education program is designed to enable successful graduates to become certified as Teacher of Elementary K-6 and to qualify for the endorsement of Teacher of Elementary with Subject Matter Preparation (5-8) in a major subject area. Students in the Elementary-Middle program must choose an academic major in Biology, Earth Science, English-Standard Literature, History, Mathematics or Spanish.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-education/collegeprogram-mission-and-slos>

Early Childhood Education

Upon graduation, students are qualified for two New Jersey certifications [Preschool through grade three (P-3) and Kindergarten through grade six (K-6)]. Students must pass the Praxis II Elementary Education Multiple Subjects Exam (#5001) to qualify for K-6 certification and the Praxis II Early Childhood Content Knowledge Exam (5025) to qualify for P-3. The emphasis of the program is preschool through third grade. Career opportunities include teaching and guiding children in infant and child care centers, pre-kindergarten programs, and primary through six grade classrooms. Students majoring in early childhood education must also choose a liberal arts or science major listed in the University catalog. To be admitted to the program as a declared major, students are required to successfully complete EC 2900 (or transfer equivalent) with a minimum grade of B- and, as a prerequisite, achieve and maintain a 3.00 GPA or higher from Kean University and all transfer credits, and earn a grade of "C" or better in BIO 1000, COMM 1402, ENG 1030 and in at least one college-level math course. Maintaining a 3.0 GPA is required for continuation in the program. Students must achieve the New Jersey Qualifying score on the Praxis I Core Academic Skills Test prior to admission into the program. NOTE: Prior to the professional internship (EC 4401) students must pass both Praxis II Content Knowledge exams. Early childhood courses are only available to the

Kean University student who has been admitted to the program as a declared major. Some Early Childhood courses are also offered online. (Contact the program for further information about these offerings.)

B.A. DEGREE

EARLY CHILDHOOD EDUCATION 132

(Dual Certification: P-3 and K-6)

Coordinator: Dr. Sonja de Groot-Kim
Hennings Hall, Room 418
(908) 737-3832

GENERAL EDUCATION 45

FOUNDATIONS REQUIREMENTS 13

GE	1000	Transition to Kean***	1
OR			
GE	3000	Transfer Transitions***	1
ENG	1030	Composition	3
MATH	1000	College Algebra	3
COMM	1402	Speech Communication	3
GE	2022	Research and Technology	3

DISCIPLINARY AND INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities			9
ENG	2403	World Literature	3
Performing Arts			6

(Choose two of the following)

Fine Arts (must be FA 1000, FA 1100, FA 1230, or FA 2280)

AND/OR

Music (must be MUS 1050 OR 1517)

AND/OR

Theatre 1100			
Social Sciences			9
HIST	1062	Worlds of History	3
PSY	1000	General Psychology	3
SOC	1000	Intro. to Sociology	3
Science & Mathematics			10-11
MATH	1010	Foundations of Mathematics	3
BIO	1000	Principles of Biology	4

One course from one of the following areas:

Chemistry, Physics, Astronomy, Geology, Meteorology, ES 1000 or ID 1400 4/3

Health & Physical Education			4
ID	1225	Critical Iss./Val Contemporary Health	3

Choose one of the following:

PED	1101	Begin. Mod. Dance	1
PED	1103	Begin. Jazz Dance	1
PED	1107	Creative Movement	1
PED	1151	Folk & Square Dance	1

ADDITIONAL REQUIREMENTS 21

PSY	2100	Child Psychology	3
ID	4240	Understanding Family & Community	3
ID	3210	Working with Infants/Toddlers	3

ID	2955	Disabled Persons in American Society	3
ID	2950	The Child & Technology	3
Additional required courses (Must See Dept. Advisor Before Selecting)			6

ACADEMIC MAJOR OR CONTENT AREA (MINIMUM 30 CREDITS)

See the academic advisor in that department for requirements.

PROFESSIONAL EDUCATION 36

Sophomore Level

EC	2900	Introductory. Field Experience	3
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Junior Level

EDUC	3000	Curr., Eval. & Learner	3
EC	3250	Perspectives. on EC Practice	3
EC	3300	Teaching & Learning I	3
EDUC	3400	Language Arts	3
EC	3400	Student Teaching in EC I	2
EMSE	3903	Teaching English Language Learners	1

(Note: EC 3400, EC 3300, & EMSE 3903 MUST be taken together.)

Senior Level

EC	4300	Teaching. & Learning II (WE)* 3	
EC	4260	Supporting Emerging Literacy	3
EC	4401	Student Teaching in EC II	9

(Must submit passing Praxis II scores prior to student teaching semester)

CAPSTONE COURSE

EC	4000	Teacher and Classroom	3
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(Note: EC 4000 & EC 4401 MUST be taken together.)

*Writing Emphasis (WE) course.

¹ Program advisement is required for all Early Childhood intended and declared majors.

² Transfer students must apply to the Program for admission to Early Childhood and Family Studies as DECLARED majors before registering for EC courses.

**Grade of B- or better required.

***University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

EARLY CHILDHOOD COURSES

INTRODUCTORY

EC 1000 Developing Skills of Child Care Staff Who Work with Families (2)

A beginning course to help child care staff interact with families in productive ways. Course may not apply toward degree.

EC 1010 Overview of EC Education for High School Students (1)

Course explores basic concepts, issues, curricula areas and career opportunities in early childhood education.

Prerequisites: Completion of high school junior year with at least a "B" average or with permission of guidance counselor.

Course may not apply toward degree.

EC 2900 Field Experiences in Multicultural Early Childhood Settings (3)

Sophomores attend a seminar class and participate in six full-day observations in both urban and suburban school districts. (E)

Prerequisites: Eng 1030 and Comm 1402, GPA 3.00 or higher. Required of all students in Early Childhood before formal admission to major.

LANGUAGE

EC 3100 Exploring Books with Young Children (3)

An analysis of literary trends in literature for the young child. Development of proficiency in methods of selecting literature, techniques for storytelling, and writing for young children.

EC 4260 Supporting Emergent Literacy at Home and at School (3)

An exploration of culturally responsive support and assessment strategies for language and literacy acquisition in young children. (E, SSI)

CURRICULUM AND METHODS

EC 3220 An Educational View of Young Children Through Film (3)

Through viewing selected films, the student will compare and contrast child rearing practices and educational systems across cultures. Emphasis will be on children from birth through age 8.

EC 3250 Perspectives on Early Childhood Practice (3)

Students will examine theories of child development as well as philosophical and theoretical models of young children's learning. Observations in a variety of early childhood settings will focus on the continuum of development and learning. (E, SSI)

EC 3300 Teaching and Learning in Early Childhood Education I (3)

Students will learn about the development of the curriculum for children in nursery, preschool, and kindergarten. (E)

Prerequisites: EC 2900 or equivalent experience, and GPA of 3.00 or higher. Required for Early Childhood majors.

EC 4220 Teaching Young Children Math (3)

Process and content standards for the teaching of mathematics pre-K through grade 4, with emphasis on problem solving, reasoning, communications and connections within mathematics and to other disciplines.

EC 4230 Teaching Science to Young Children (3)

Introduction to science content with an emphasis on design and presentation of learning experiences in science for the pre-school kindergarten and the primary grades.

Prerequisites: EC 2900, EDUC 3000.

EC 4300 Teaching and Learning in Early Childhood Education II (3)

Focuses on the integration of teaching/learning activities in the areas of science, mathematics, social studies, language arts, and aesthetics for elementary children, ages 6-11. (E)

Prerequisites: EC 3300, and G.P.A. of 3.00 or higher. Required for Early Childhood majors.

Writing Emphasis Course

STUDENT TEACHING

Through their student teaching internships, students are expected to experience a combination of preschool, kindergarten, and primary grade field work. At least one internship should occur in a NAEYC-accredited program.

EC 3400 Student Teaching in Early Childhood Education I: Pre-School/Kindergarten or Primary Grade (2)

Three days per week, three-and one-half hours per day, direct teaching experiences under the guidance and direction of a cooperating teacher and a college supervisor in a preschool setting. Twenty hours of observation in a kindergarten also required. (E)

Prerequisites: ID 2950, ID 3210, ID 4240, EC 2900, EDUC 3000, EC 3250, and EDUC 3400, completion of 65 S.H. of course work, and a G.P.A. of 3.00 or higher. Must be taken with EC 3300 and EMSE 3903. Required for Early Childhood majors.

EC 4401 Student Teaching in Early Childhood Education II (9)

One full semester of supervised teaching under the guidance and direction of a cooperating teacher and a college supervisor during the senior year. (E)

Prerequisite: All required professional courses, G.P.A. of 3.00 or higher, and completion of 95 S.H. of coursework. Must be taken with EC4000. Required for Early Childhood majors.

SEMINARS AND INDEPENDENT STUDY

EC 4000 Teacher and Classroom (3)

Analysis of classroom dynamics, the application of knowledge or individual differences in development to learning in the classroom, making teaching decisions and using instructional formats are emphasized. Classroom management and organization techniques are examined. (E)

This course is taken with EC 4401.

EC 4325 Practicum: Educational Implications for Serving Families (6)

Practicum in a specific human service organization such as: day care, library, museum, legal center, hospital ward, clinic, or youth service bureau

with concurrent seminar to develop skills in helping families actualize their educative understandings and abilities. (Archive)

Prerequisites: Junior or senior standing and enrollment in Family Studies Collateral. Soc 2100, ID 3200, ID 3610 and joint advisement by instructor and major departmental advisor. (This is of special importance to social work students for whom certain requirements will be waived because they have been met by social work courses.)

INTERDISCIPLINARY COURSES

The following courses are found under Interdisciplinary Courses. (See Index.)

ID 2950 Technology and the Young Child (3)

Exploration of developmentally appropriate use of technology by young children in home and school. Emphasis is on computer and Internet technologies. (E, SSI)

ID 2955 Disabled Persons in American Society (3)

Explore issues related to adaptation and modification for those with disabilities in American Society. Settings such as the school, home, and workplace will be examined. (E, SSI, SSII)

ID 3200 The Family as Educator (3)

Exploration of the ways members of families educate each other and of the outcomes of these efforts. Emphasis on the development of skills for observing, recording, and analyzing family educational interactions. The role of identity and diversity in a pluralistic society is stressed.

ID 3202 Understanding Parenthood (3)

This course will explore child rearing issues in contemporary society and examine the impact of social change, pluralism, and the social and behavioral sciences on parenthood and parent/child relationships.

ID 3210 Working with Infants, Toddlers, and Young Children in Diverse Settings (3)

The purpose of this course is to understand children's growth and development during their first three years of life. Physical, cognitive, language, and social/emotional development will be studied with an emphasis on implications for infant/toddler care and education. (E, SSI, SSII)

ID 3610 Child Advocacy: Issues, Policies and Interventions for the Helping Practitioner (3)

To help practitioners serving children and families understand the history, current socio-economic factors, and policy implications for advocacy issues that affect the welfare of children; and to improve intervention techniques directed toward services and institutions serving children and families in a multi-cultural society.

ID 4240 Understanding Family and Community Partnerships (3)

Relationships among families, teachers, schools and other community institutions. History and significance of parent and community involvement in education. Evaluation of techniques for forming effective partnerships in diverse educational settings. (E)

Elementary Education

Kean University offers a variety of programs for students seeking certification to teach in elementary schools. These programs are listed below.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-education/collegeprogram-mission-and-slos>

PROGRAM IN ELEMENTARY EDUCATION AND BILINGUAL EDUCATION

This program is for students seeking certification in Elementary K-6 who do not plan to seek the 5-8 endorsement to teach in Middle School. This program also offers all Bilingual Education options.

PROGRAM IN MIDDLE AND SECONDARY EDUCATION

Students seeking to teach in Middle School must also have Elementary K-6 certification. This program leads to academic subject Grades 5-8 endorsement in the following core subject areas including math, science, social studies, English and World Languages. This program also provides advisement for students interested in P-12 academic subject area certification.

PROGRAM IN EARLY CHILDHOOD EDUCATION

This program is for students seeking certification in P-3 (preschool through Grade 3) and addresses the NJ DOE mandate for dual certification in elementary grades K-6 as well.

PROGRAM IN SPECIAL EDUCATION

This program is for students seeking Elementary Certification with Dual Certification in Special Education.

Elementary Education and Bilingual Education (EEBE Program)

ELEMENTARY EDUCATION K-6

This program is designed for students seeking certification from Kindergarten through sixth grade. Students may select a second major from the following: Art History, Biology, Communication, Earth Science, English-Standard Literature, English-Writing Option, Fine Arts, History, Mathematics, Music, Psychology, Philosophy, Sociology, Spanish, Chemistry, Political Science and Theater.

ELEMENTARY EDUCATION K-6 BILINGUAL OPTION

This program is designed for students seeking certification in Elementary Education K-6 with an endorsement in Bilingual Education. Students may select a second major from the following: Art History, Biology, Communication, Earth Science English-Standard Literature, English-Writing Option, Fine Arts, History, Mathematics, Music, Psychology, Philosophy, Sociology, Spanish, Chemistry, Political Science, and Theater.

ELEMENTARY EDUCATION K-6 AND 5-8; BILINGUAL OPTION

This program is designed for students seeking certification in the following areas: 1) Elementary Education (K-6); 2) Grades 5 through 8 in selected academic subject areas; and 3) an endorsement in Bilingual Education. Students enrolled in the program may select a second major from the following: Biology, Earth Science, Chemistry, English-Standard Literature Option, History, Mathematics or Spanish.

ADMISSION REQUIREMENTS

B.A. IN ELEMENTARY EDUCATION K-6

Students must complete the following requirements to become a declared Elementary Education K-6 major: Complete a minimum of 30 credits of course work; achieve a 3.00 cumulative grade point average; earn a "B-" or higher in General Education Courses: ENG 1030, MATH 1000, COMM 1402, BIO 1000, HIST 2303 or 2304, and EMSE 2800; obtain a passing score on each of the three parts of the Praxis Core exam; gain acceptance into an academic major or academic content area; complete the application for admission; and be interviewed by the program coordinator or designee.

ELEMENTARY EDUCATION K-6 - CERTIFICATE OF ELIGIBILITY WITH ADVANCED STANDING (CEAS) REQUIREMENTS (ALL OPTIONS)

Graduates who have successfully completed an Elementary K-6 certification program are eligible to obtain the Certificate of Eligibility with Advanced Standing (CEAS) from the State of New Jersey. The Elementary Education Multiple Subjects Praxis II exam (#5001) is required and must be passed before a student can take the professional internship. The Certification Office assists candidates in applying for the CEAS. Successful completion of the Teacher Work Sample Portfolio is required.

B.A. IN ELEMENTARY EDUCATION K-6 AND 5-8 BILINGUAL

Students must complete the following requirements to become a declared Elementary Education K-6 and 5-8 - Bilingual Option major: Complete a minimum of 30 credits of course work; achieve a 3.00 cumulative grade point average and earn a "B-" or higher in General Education Courses: ENG 1030, MATH 1000, COMM 1402, BIO 1000, HIST 2303 or 2304, and EMSE 2800; obtain a passing score on each of the three parts of the Praxis I exam; gain acceptance into an academic major; complete the application for admission; and be interviewed by the program coordinator or designated faculty advisor.

SPECIAL BILINGUAL OPTION REQUIREMENTS:

Oral and written proficiency in languages of instruction: Students entering the Bilingual Option must also demonstrate oral and written proficiency in both languages of instruction; for example, Spanish and English as measured by the ACTFL Proficiency Assessment.

The passing scores for Bilingual Education candidates are:

English:

Oral-Advanced High
Written -
Advanced Mid

Other language:

Oral-Advanced High
Written -
Advanced Mid

The ACTFL test must be completed before being declared a bilingual option major. Registration and administration of this test is done in the Elementary Ed. & Bilingual Ed. Program Office located in Hutchinson Hall, Room 330.

WRITING EMPHASIS REQUIREMENT:

All bilingual option students are required to complete one "Writing Emphasis (WE) course. The WE course should be within the major program. EMSE 4440 satisfies this requirement for this Professional Major. However, you should consult your content major program advisor (i.e. History, Earth Science, etc.) for any requirements in the respective program.

Oral-Advanced High	Oral-Advanced High
Written -	Written -
Advanced Mid	Advanced Mid

The ACTFL test must be completed before being declared a bilingual option major. Registration and administration of this test is done in the Elementary Ed. & Bilingual Ed. Department located in Hutchinson Hall, Room 330.

ADDITIONAL PROGRAM INFORMATION

Students may choose to use general education courses to satisfy major requirements. Students should consult their academic advisor to determine appropriate course substitutions.

Students declared in the Elementary Education K-6; Elementary Education K-6 Bilingual Option; and Elementary Education K-6/5-8 Bilingual Option programs must maintain a 3.00 cumulative grade point average in order to be permitted to register for Professional Education courses, for continuation in the program and for graduation from the program.

PROFESSIONAL EDUCATION COURSES

Students entering Kean University as freshmen or transfers must earn a "B-" or higher in Professional Education courses and a Satisfactory grade in EMSE 3800 and EMSE 4810. EDUC 3000 and EDUC 3400 must be completed with a "B-" or higher prior to taking EMSE 3800. EMSE 3123 must be taken concurrently with EMSE 3800. An overall GPA of 3.0 is required.

PRAXIS II

The State of New Jersey requires a passing score on the Elementary Education Multiple Subjects Praxis II exam (#5001) for licensure and students may not advance to the senior field experience without passing the relevant Praxis II exam. For students who intend to complete the K-6, 5-8 program, the passage of more than one Praxis II exam may be required.

PROFESSIONAL INTERNSHIP COURSES

Senior Seminar EMSE 4900 and Professional

Internship EMSE 4810 must be taken together and no other course registration is permitted. All other professional education courses must be completed successfully ("B-" or higher) prior to taking these senior level courses.

B.A. DEGREE IN ELEMENTARY EDUCATION K-6

Coordinator: Prof. Patrick Ippolito
Hutchinson Hall, Room 330 E
(908) 737-3904

GENERAL EDUCATION AND LIBERAL ARTS REQUIREMENTS 45-46

FOUNDATIONS REQUIREMENTS 13

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030*	Composition ²	3
MATH	1000	College Algebra ² (or MATH 1010, 1016, 1030) ²	3
COMM	1402	Speech Communication ²	3
GE	2022	Research & Technology	3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

<i>Humanities</i>			9
ENG	2403	World Literature	3
AH	1700	Art History	3
Music 1050 (recommended) or Music 1000			3
<i>Social Sciences</i>			9
HIST	1062*	Worlds of History	3
PSY	1000	General Psychology	3
GEOG	2010	World Geography	3
<i>Science and Mathematics</i>			10 or 11
MATH	1010*	Foundations of Math (or MATH 1016, 1030, 1054)	3
BIO	1000*	Principles of Biology ²	4
ONE course from one of the following areas:			3
Astronomy, Biology, Chemistry, Earth Science, Geology, Meteorology, Physics or Interdisciplinary			3/4
<i>(If Academic Major or Content area is science, take required course)</i>			
<i>Health & Physical Education</i>			4
ID	1225	Issues in Contemporary Health	3
PED 1101, or 1103, or 1105			1

ADDITIONAL REQUIREMENTS 15

PSY	2100	Child Psychology	3
HIST	2303**	US History to 1877 ²	3
HIST	2304**	US History 1877 to Present	3
ID	2950	The Child & Technology	3
ID	2955	Disabled Persons in Am. Soc.	3
PS	1010	Intro to Political Science	3
ECO	1020	Principles of ECO I	3

FREE ELECTIVES 0-9

(Depending on academic major requirements)

ACADEMIC MAJOR/CONTENT AREA (MINIMUM 30 CREDITS)

(See academic advisor in that program for requirements in major or content area)

PROFESSIONAL EDUCATION² (30 S.H.)

Sophomore Level			
EMSE	2800	Sophomore Field Experience ²	3
Junior Level			
EDUC	3000	Curriculum Evaluation- Learner	3
EDUC	3400	Language Arts and Reading	3
EMSE	3140	Soc. Studies & Current Issues	3
EMSE	3123	Math & Science in Education (take with EMSE 3800) ³	3
EMSE	3800	Field Exp. in Elementary School	2
EMSE	3903	Teaching ELL	1
Senior Level			
EMSE	4810	Professional Internship (take with EMSE 4900) ³	9

CAPSTONE COURSE

EMSE	4900	Senior Seminar	3
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TOTAL (129 OR MORE DEPENDING ON MAJOR/CONTENT AREA)

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

² These courses, including Capstone, require a B- or higher.

³ Must be taken together for Teacher Work Sample. Begin Teacher Work Sample Preparation.

*Required Distribution Course

**Required of Non-History Majors

B.A. IN ELEMENTARY EDUCATION K-6 WITH BILINGUAL OPTION

Coordinator: Dr. Gail Verdi
Hutchinson Hall, Room 330 G
(908) 737-3908

GENERAL EDUCATION AND LIBERAL ARTS REQUIREMENTS 45-46

FOUNDATIONS REQUIREMENTS 13

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030*	Composition ²	3
MATH	1000	College Algebra ² (or MATH 1010, 1016, 1030) ²	3
COMM	1402	Speech Communication ²	3
GE	2022	Research & Technology	3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

<i>Humanities</i>			9
ENG	2403	World Literature	3
AH	1700	Art History	3
Music 1050 (recommended) or Music 1000			3
<i>Social Sciences</i>			9
HIST	1062*	Worlds of History	3
PSY	1000	General Psychology	3
GEOG	2010	World Geography	3
<i>Science and Mathematics</i>			10 or 11
MATH	1010*	Foundations of Math (or MATH 1016, 1030, 1054)	3
BIO	1000*	Principles of Biology ²	4
ONE course from one of the following areas:			3
Astronomy, Biology, Chemistry, Earth Science, Geology, Meteorology, Physics or Interdisciplinary			3/4
<i>(If Academic Major or Content Area is science, take required course)</i>			
<i>Health & Physical Education</i>			4
ID	1225	Issues in Contemporary Health	3
PED 1101, or 1103, or 1105			1

ADDITIONAL REQUIREMENTS 15

PSY	2100	Child Psychology	3
HIST	2303**	US History to 1877 ²	3
HIST	2304**	US History 1877 to Present	3
ID	2950	The Child & Technology	3
ID	2955	Disabled Persons in Am. Soc.	3
PS	1010	Intro to Political Science	3
ECO	1020	Principles of ECO I	3

FREE ELECTIVES 0-9

(Depending on academic major requirements)

ACADEMIC MAJOR/CONTENT AREA (MINIMUM 30 CREDITS)

(See academic advisor in that program for requirements for major or content area)

PROFESSIONAL EDUCATION² 30

Sophomore Level			
EMSE	2800	Sophomore Field Experience ²	3
Junior Level			
EDUC	3000	Curriculum Evaluation- Learner	3
EDUC	3400	or 3403 Lang. Arts/Reading in Pre-Sch. & Elem. Curr. of LEP Students	3
EMSE	3410	Teaching Techniques for Bilingual/Bicultural Students	3
EMSE	3420	Basic Theory & Practice ESL	3
EMSE	3800	Field Exp. in Elem. Ed.	2
Senior Level			
EMSE	4440	Intro. to Biling. Ed. (WE)	3
EMSE	4441	Hist. & Cult. of LEP/ELL Studies	3

EMSE 4810 Professional Internship
(take with EMSE 4900)³ 9

CAPSTONE COURSE

EMSE 4900 Senior Seminar 3

TOTAL 128-129

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

² These courses, including Capstone, require a B- or higher.

³ Must be taken together for Teacher Work Sample. Begin Teacher Work Sample Preparation.

*Required Distribution Course

**Required of Non-History Majors

B.A. IN ELEMENTARY EDUCATION K-6/5-8 WITH BILINGUAL OPTION

Coordinator: Dr. Gail Verdi
Hutchinson Hall, Room 330 G
(908) 737-3908

GENERAL EDUCATION AND LIBERAL ARTS REQUIREMENTS 45-46

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030* Composition² 3

MATH 1000 College Algebra² 3
(or MATH 1010, 1016, 1030)²

COMM 1402 Speech Communication² 3

GE 2022 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

ENG 2403 World Literature 3

AH 1700 Art History 3

Music 1050 (recommended)
or Music 1000 3

Social Sciences 9

HIST 1062* Worlds of History 3

PSY 1000 General Psychology 3

GEOG 2010 World Geography 3

Science and Mathematics 10 or 11

MATH 1010* Foundations of Math 3
(or MATH 1016, 1030, 1054)

BIO 1000* Principles of Biology² 4

ONE course from one
of the following areas: 3

Astronomy, Biology, Chemistry,
Earth Science, Geology, Meteorology,
Physics or Interdisciplinary 3/4

Health & Physical Education 4

ID 1225 Issues in Contemporary
Health 3

PED 1101, or 1103, or 1105 1

ADDITIONAL REQUIREMENTS 18

PSY 2100 Child Psychology 3

PSY 2110 Psychology of Adolescence 3

HIST 2303** US History to 1877 3

HIST 2304** US History 1877 to Present 3

ID 2950 The Child & Technology 3

ID 2955 Disabled Persons
in Am. Soc. 3

PS 1010 Intro to Political Science 3

ECO 1020 Principles of ECO I 3

FREE ELECTIVES 0-9

(depending on academic major requirements)

ACADEMIC MAJOR (FULL MAJOR - 30 OR MORE S.H.) K-6, 5-8 CANDIDATES MUST COMPLETE A FULL ACADEMIC MAJOR.

(See academic advisor in that program for requirements)

PROFESSIONAL EDUCATION² 38

Sophomore Level

EMSE 2800 Sophomore Field
Experience² 3

Junior Level

EDUC 3000 Curriculum Evaluation-
Learner 3

EDUC 3400 or 3403 Lang. Arts & Reading in
Presch. Elem. Curr. for LEP/ELL
Students 3

EMSE 3410 Tchg. Tech. for
Bil/Bic Students 3

EMSE 3420 Basic Thry/Pract. ESL 3

EMSE 3800 Field Exp. in Elementary
School
(Take with EMSE 3300)³ 2

OR

EMSE 3802 Field Exp. in Middle School 2
(Take with EMSE 3300)³

EMSE 3300 Middle School Curr. & Phil. 3

Senior Level

EMSE 4440 Intro. Bilingual Ed. (WE) 3

EMSE 4441 Hist. & Cult. of LEP/ELL
Students 3

EMSE 4812 Professional Field Experiences
in Middle School (5-8) 9
(take with EMSE 4900)³

CAPSTONE COURSE

EMSE 4900 Senior Seminar 3

TOTAL 131-132

The 5-8 subject matter specialization is available to those whose academic major is: Biology, Earth Science, English-Standard Literature, History, Mathematical Sciences, or Spanish.

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)
OR GE 3000 (transfers entering with 30 credits or more).

² These courses, including Capstone, require a B- or higher.

³ Must be taken together for Teacher Work Sample

*Required Distribution Course

**Required of Non-History Majors

Elementary Education K-6 with 5-8 (Middle School) Endorsement

An Elementary-Middle School program designed to enable successful graduates to become certified as Teacher of Elementary K-6 and to qualify for the endorsement of Teacher of Elementary with Subject Matter Preparation (5-8) in a major subject area. Students in the Elementary-Middle program must choose a full academic major in Biology, Earth Science, English-Standard Literature, History, Mathematics, or Spanish (students who wish to be eligible for P-12 licensure in Spanish must take EMSE 3250).

Requirements for Admission to B.A. in Elementary Education K-6 5-8

Students must complete the following requirements in order to be accepted into the major of Elementary Education K-6 5-8: complete a minimum of 30 credits of course work; achieve a 3.00 G.P.A. or higher from Kean University; earn a "B-" or better in each of 6 specific courses (COMM 1402, ENG 1030, HIST 2303, MATH 1000 or 1010, BIO 1000, and EMSE 2800 or 2802); obtain a passing score on each of the three parts of the **Praxis I Core** Academic Skills exam; complete the Speech and Language Screening Test; gain acceptance into an academic major; complete the application for admission; and be interviewed by the program coordinator or designee.

Elementary K-6 Certification Requirements

Graduates who have successfully completed an Elementary K-6 certification program are eligible to obtain the Certificate of Eligibility with Advanced Standing (CEAS) from the State of New Jersey. The Middle School endorsement is available to all students who obtain the K-6 CEAS (see below). The Elementary Education Multiple Subjects Praxis II exam (**#5001**) is required and must be passed along with the Middle School Subject Specialty area Praxis II prior to enrolling in the senior field experience. The Certification Office assists education majors to obtain the CEAS. Successful completion of the Teacher Work Sample Portfolio is required.

Middle School Endorsement Requirements

Graduates possessing the CEAS in Elementary K-6 can seek an additional endorsement for middle school certification. The endorsement is known as: Teacher of Elementary with Subject Matter Preparation (5-8). It is available from the State of New Jersey in the areas of English Language Arts, Mathematics, Science, Social Studies, and Spanish. Each such endorsement requires passing of the corresponding Middle School Praxis exam and a minimum of 15 semester hours in the appropriate discipline.

Additional Program Information

Students accepted in the Elementary Education K-6 5-8 program must maintain a

GPA of 3.00 or higher from Kean in order to be permitted to register for Professional Education courses, for continuation in the program and for graduation from the program. Students must earn a grade of B- or higher in all Professional Education courses in order to be eligible to enroll in the senior field experience. Successful completion of the Teacher Work Sample Portfolio is required for graduation.

Writing Emphasis Requirement:

All students are required to complete one "Writing Emphasis (WE) course. The WE course should be within the major program. EMSE 3140 satisfies this requirement for your Professional Major. However, you should consult your content major program advisor (i.e. History, Earth Science, etc.) for any requirements in their respective programs.

Praxis II

The State of New Jersey requires a passing score on the Elementary Education Multiple Subjects Praxis II exam (#5001) for licensure. Students may not enroll in the senior field experience if they have not passed this exam. The College of Education offers online support and subject area workshops to help students prepare for this examination. Information about these supports can be found in the Dean's Office, Hennings Hall Room 443.

Please note changes in the following Praxis II Middle School Tests: Middle School Mathematics: New Code number – #5169, new passing score – 165. Middle School English Language Arts: New Code number – #5047, new passing score – 164.

Professional Internship Courses

Senior Seminar EMSE 4900 and Professional Internship EMSE 4812 must be taken together and no other course registration is permitted. All other professional education courses must be completed successfully ("B-" or higher) prior to taking these senior level courses. An overall GPA of 3.0 is required.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-education/collegeprogram-mission-and-slos>

B.A. DEGREE IN ELEMENTARY EDUCATION K-6 5-8

Coordinator: Dr. George Kolodiy
Hutchinson Hall, Room 334 A
(908) 737-4013

129 S. H OR HIGHER DEPENDING ON ACADEMIC MAJOR (CODE 24111)

GENERAL EDUCATION 43-44

FOUNDATIONS REQUIREMENTS 13

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030	Composition	3
MATH	1000	College Algebra	3
COMM	1402	Speech Communication	3
GE	2022	Research & Technology	3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

<i>Humanities</i>				9
ENG	2403	World Literature		3
AH	1700	Art History		3
Music	1050 or Music 1000			3
<i>Social Sciences</i>				9
HIST	1062	Worlds of History		3
PSY	1000	General Psychology		3
GEOG	2010	World Geography		3
<i>Science and Mathematics</i>				10 or 11
MATH	1010	Foundations of Math		3
BIO	1000	Principles of Biology		4
Additional Science Course:				3-4
<i>Health & Physical Education</i>				3
ID	1225	Issues in Contemporary Health		3

ADDITIONAL REQUIREMENTS 19

PSY	2100	Child Psychology		3
PSY	2110	Psychology of Adolescence		3
HIST	2303	US History to 1872		3
HIST	2304	US History 1877 to Present		3
PED	1101, or 1103, or 1105			1
ID	2950	The Child & Technology		3
ID	2955	Disabled Persons in Am. Soc.		3

FREE ELECTIVES 0-9 (Depending on academic major requirements)

ACADEMIC MAJOR – (FULL MAJOR 30 OR MORE S.H.) K-6, 5-8 CANDIDATES MUST COMPLETE A FULL ACADEMIC MAJOR

(See academic advisor in that program for requirements)

PROFESSIONAL EDUCATION² 30

Sophomore Level				
EMSE	2802	Exploring Teach/Lab Exp 5-8 ³		3
Junior Level				
EDUC	3000	Curriculum Evaluation-Learner		3
EDUC	3400	Language Arts and Reading		3
EMSE	3140	Soc. Studies & Current Issues		3
EMSE	3123	Math & Science in Education		3
EMSE	3300	Middle School Curr/Phil ⁴		3
EMSE	3802	Preprof Field Exp. in Mid School		2
EMSE	3903	Teaching ELL		1
Senior Level				
EMSE	4812	Professional Internship ⁵ (take with EMSE 4900 for Teacher Work Sample)		9

CAPSTONE COURSE

EMSE	4900	Senior Seminar		3
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¹ University Requirement for Graduation for all undergraduate students that must be satisfied in

one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

² All courses must be passed with a B- or higher; field courses with S

³ Teacher Work Sample Portfolio preparation begins in this class

⁴ Take EMSE 3300 with EMSE 3802 for Teacher Work Sample

⁵ The Elementary Education Multiple Subjects Praxis II exam (#5001) as well as the appropriate Middle School Praxis II exam must be passed before taking Professional Internship. Teacher Work Sample is completed in EMSE 4812 and EMSE 4900

SECONDARY EDUCATION

PROGRAMS IN TEACHER CERTIFICATION FOR SUBJECT AREAS P-12

Coordinator: Dr. Linda Cahir
Hutchinson Hall, Room J334F
(908) 737-4008

Kean University offers a variety of programs leading to the B.A. Degree in an academic major with an option in Teacher Certification P-12. The academic portions of these programs are housed in their respective departments. The Professional Education component of these programs is housed in the Department of Middle and Secondary Education.

Students registering for Instruction in Subject Areas P-12 programs must have a G.P.A. of 3.00 or higher and a "B-" or higher in COMM 1402, ENG 1030, and EMSE 2801. Students must obtain a passing score on each of the three parts of the Praxis I exam, complete the Speech and Language Screening Test, and must have been formally admitted into the education program, to register for EMSE 3210, 3220, 3230, 3240, 3250, 3801, 4811, EDUC 3401, 3000, 4000 and for the electives EMSE 3122 and EMSE 3112.

Students must earn a "B-" or higher in each education course in order to register for EMSE 4811. Grades below a "B-" must be remediated before students enroll in EMSE 4811. The added course credit will be counted as extra credit beyond the required 30 credits for the program. In addition, the academic major must be maintained with a "B" or higher (allowance for two "Cs").

DESCRIPTIONS OF EMSE COURSES

The Secondary Education Program offers a variety of education major programs in Instruction Subject Areas P-12.

Students registering for Instruction in Subject Areas P-12 programs must have a G.P.A. of 3.00 and a "B-" or higher in COMM 1402, ENG 1030, and EMSE 2801. Students are also required to take and pass a speech examination. Students must have a G.P.A. of 3.00 or higher combined, from Kean plus all transfer credits, and must have been formally admitted into the education program, to register for EMSE 3210, 3220, 3230, 3240, 3250, 3801, 4811, EDUC 3401, 3000, 4000 and for the elective EMSE 3122.

Students must earn a "B-" or higher in each education course in order to register for EMSE 4811. Grades below a "B-" must be remediated before students enroll in EMSE 4811. The added course credit will be counted as extra credit beyond the required 30 credits for the program. In addition, the academic major must be maintained with a "B-" or higher (allowance for two "Cs"). Prior to enrolling in the senior field experience, students must have passed the appropriate P-12 Subject Area Praxis II exam. Please note changes in the following Praxis II Secondary (P-12) tests: P-12 (K-12) Mathematics: New Code – 5161, new passing score – 160. P-12 (K-12) English Language Arts: New Code – 5038, new passing score – 167.

EMSE 3121 Experiences in Geometry in Elementary School Mathematics (3)
Examination of the role of geometry in the elementary school mathematics program through an experiential and reflective approach to familiarize students with basic geometric concepts and their application to contemporary mathematics problems.

EMSE 3123 Mathematics and Science in Education (3)
Inquiry into the nature and content of elementary mathematics and science and implications for teaching; the use of visual, manipulative, and computer materials; learning theories pertaining to mathematics and science education; and current programs and materials. (E, SSI)
Prerequisites: Declared major, 3.00 G.P.A., and a "B-" or better in at least one course in college mathematics, one course in laboratory science, and EMSE 2800.

EMSE 3140 Social Studies and Contemporary Issues in Education (3)
Examination of the objectives of elementary school social studies, teaching strategies and materials, programs, community resources, contemporary issues, and evaluation. (E, SSI, SSII, WS)
Prerequisite: Declared major, 3.00 G.P.A., "B-" or better in EMSE 2800.
Corequisites: EDUC 3000, EDUC 3400, EMSE 3123, EMSE 3800.
Writing Emphasis Course

EMSE 3300 Middle School Curriculum and Philosophy (3)
Philosophy, objectives, materials, and techniques appropriate for teaching middle school students in the specific areas of specialization. For a Middle School endorsement on an elementary education certificate. (E)
Prerequisites: Declared major, 3.00 GPA
Corequisites: EMSE 3802, 3903

EMSE 3410 Teaching Techniques for Bilingual/Bicultural Classrooms (3)
Examination and evaluation of alternative methods and techniques for teaching content areas to bilingual/bicultural students in a multicultural-multiethnic environment through hands-on and cooperative group experiences using English and the target languages of the learners. (E)
Prerequisites: Declared major, 3.00 G.P.A. Required for Bilingual Education majors.

EMSE 3903 English Language Learners in American Schools (1)
Introduction to strategies and techniques for facilitating instruction and language acquisition of English Language Learners in general program/mainstream classrooms. (E)

EMSE 4440 Introduction to Bilingual Education (3)
Examination of the history, legislation and concepts of bilingual education throughout the nation and neighboring countries. (FA)
Prerequisites: Declared major, 3.00 G.P.A. Required for Bilingual Education majors.
Writing Emphasis Course

EMSE 4441 History and Culture of the Limited English Proficient Student (3)
Examination of the historical and experiential background, the socio-linguistic and cultural heritage, the resultant mental set of the limited English proficient student, and the use of computer materials as culture awareness assimilators. (SP)
Prerequisites: Declared major, 3.00 G.P.A. Required for Bilingual Education majors.

INDEPENDENT STUDY, SERVICE PROGRAMS

EMSE 3900 Education and Community Institution: S.C.A.T.E. (3)
An invitation to students to consider the nature, aims, and methods of community institutions in the education of our citizens. Field experience arranged under the auspices of the Student Committee for Advancement Through Education (S.C.A.T.E.).

EMSE 3901 Student Involvement and Educational Governance (3)
A formal introduction to prevalent issues in higher education and other educational institutions. Weekend seminar off-campus, participation in University community or community service.

EMSE 3902 Student Participation in University Governance (3)
Student participation in group decision-making by University governance or advisory committees. Relationship of such actions to the total governance of the University and the New Jersey Division of Higher Education.

EMSE 4910 Independent Study in Instruction, Curriculum and Administration (3)
Intensive study in area of elementary and/or secondary education or educational foundations, carried on individually under the guidance of a faculty member in education. Open only to seniors enrolled in elementary and secondary education programs with permission of instructor and department chairperson.
Instruction in Subject Areas- P-12, Emphasis Grades 7-12
These courses do not meet elementary education major requirements.

EMSE 3210 English Education P-12 (3)
An introduction to the teaching of English in grades P-12. Topics include the processes of language arts and literature, technology in writing and research, language and literacy instruction, English curricula, and the influence of media. (E)
Prerequisites: Declared education major, 3.00 G.P.A., "B-" or better in EMSE 2801. *Corequisite:* EMSE 3801.
Writing Emphasis Course

EMSE 3220 Mathematics Education P-12 (3)
Philosophy, objectives, and techniques of teaching mathematics in the public school. Overview of mathematics curriculum P-12; impact of technology on the mathematics classroom; production and critique of classroom instructional materials; microteaching. (E)
Prerequisites: Declared education major, 3.00 G.P.A., and "B-" or better in EMSE 2801. *Corequisite:* EMSE 3801.
Writing Emphasis Course

EMSE 3230 Science Education P-12 (3)
An introduction to the teaching of science in grades P-12. Topics include the process of science, science technology and society; and science teaching, science curricula and the use of computers in science education. (E)
Prerequisites: Declared education major, 3.00 G.P.A., and "B-" or better in EMSE 2801. *Corequisite:* EMSE 3801.
Writing Emphasis Course

EMSE 3240 Social Studies Education P-12 (3)
Structure and interrelationships of the components of social studies, the objectives and curricular patterns of social studies P-12, skills development and affective learning particular to social studies. Overview of teaching techniques and materials appropriate for social studies P-12 with an emphasis on middle and high school teaching. (E)
Prerequisites: Declared education major, 3.00 G.P.A., and "B-" or better in EMSE 2801. *Corequisite:* EMSE 3801.
Writing Emphasis Course

EMSE 3250 Foreign Language Education P-12 (3)
Theories and applications of teaching foreign languages P-12, with varied values, objectives, and curriculum patterns, utilizing process and problem-solving approaches. (E)
Prerequisite: Declared education major, 3.00 G.P.A. *Corequisite:* EMSE 3801.
Writing Emphasis Course

P-12 CURRICULUM AND METHODS

EMSE 3112 Children's Literature in Education (3)
Study of children's literature with special emphasis on multicultural literature and literature that treats exceptionalities. A cross-section of genre, thematic unit development, and collaborative literature discussion groups, with multimedia.
Prerequisite: Declared major, 3.00 G.P.A.

EMSE 3122 Computers in Education (3)
A broad-based course on the use of computers in the classroom and for personal use. Topics include the history of computers, computer terminology, application of software, multimedia and the internet. (E)
Prerequisites: Declared major, 3.00 G.P.A.

EMSE 3420 Theory and Practice of Teaching English as a Second Language I (3)
Introduction to the linguistics method, materials and techniques of teaching English as a Second Language. (E)
Prerequisites: Declared major, 3.00 G.P.A.

EMSE 3421 Theory and Practice of Teaching English as a Second Language II (3)
Teaching, testing, and planning in the ESL classroom.
Prerequisite: EMSE 3420.

FIELD EXPERIENCE

EMSE 2800 Exploring Teaching/Laboratory Experiences in Multicultural Elementary School Classrooms (K-6) (3)
Introduction to teaching in multicultural, inclusive urban and suburban elementary schools including six day-long observations. Students write their initial philosophy of education and begin their professional portfolio. (E)
Prerequisites: 3.00 G.P.A.; B- in ENG 1030 and COMM 1402.

EMSE 2801 Introductory Field Experiences in Subject Area Instruction P-12 (3)
Introduction to the practice of teaching in urban and suburban schools; to the profession of teaching; and to the purposes, operations, and effects of diverse and inclusive schools, with six all-day visitations. Of EMSE 2800 and 2801, students may take only one of the two choices for credit. (E)
Prerequisites: 3.00 G.P.A., B- or better in ENG 1030 and COMM 1402.

EMSE 2802 Exploring Teaching/Laboratory Experiences in Multicultural Middle School Classrooms (5-8) (3)
Introduction to teaching in multicultural, inclusive, urban and suburban middle schools, including six day-long observations. Students write their initial philosophy of education and begin their professional portfolio. (E)
Prerequisites: 3.00 GPA; B- in ENG 1030 and COMM 1402

EMSE 3800 Preprofessional Field Experience (2)
Fifteen days spent in observing and participating in an elementary classroom with focus on planning and teaching techniques, and patterns in the major curriculum areas. (E)
Prerequisites: Declared major, completion of 65 hours of coursework, 3.00 G.P.A.; EDUC 3000, 3400 for Elementary Education and EDUC 3000 and 3403 for Bilingual Option.
Corequisites: EMSE 3123 (K-6), 3140 (P-12), 3300 (K-6, 5-8).
Corequisites for Bilingual Option: EMSE 3410, 4441.

EMSE 3801 Preprofessional Field Experiences in Instruction in Subject Areas P-12 (2)
Fifteen full days, or thirty half days, spent in observing and participating in a middle school or high school classroom with focus on goals and objectives, planning and teaching strategies, and curriculum patterns in the student's subject area of specialization. (E)
Prerequisites: Declared education major, completion of 65 hours of coursework, 3.00 G.P.A., EDUC 3000 and 3401.
Corequisite: Junior methods course in subject area of instruction EMSE 3210, 3220, 3230, 3240, or 3250, EMSE 3903.

EMSE 3802 Preprofessional Field Experiences in Middle School 5-8 (2)
Fifteen days spent observing and participating in a middle school classroom with a focus on planning and teaching techniques, goals and objectives, and curricula in the area of specialization. (E)
Prerequisites: Declared education major, completion of 65 hours of coursework, 3.00 GPA. EDUC 3000 and 3400 or 3401.
Corequisites: EMSE 3300, 3903.
(Note: The 10-credit Professional Internship courses EMSE 4800 and EMSE 4801 are to be taken by students who began their career in university prior to September 1, 2005. Students who began their university career on or after September 1, 2005 are required to take a 9-credit Professional Internship course, EMSE 4810, EMSE 4811 or EMSE 4812.)

EMSE 4804 Field Experiences in a Bilingual/Multicultural Setting (3)
Individualized projects carried out by means of observations and visits to schools and community agencies functioning in a bilingual setting and serving a bilingual population; analysis of the results and ideas culled from these experiences shared during class meetings. Those teaching will use their own schools and communities as the basis for their observations. For those not teaching, school placements will be arranged.

EMSE 4810 Professional Internship (9)
A full-semester, full-time, supervised teaching experience in elementary school classrooms with opportunity to observe specialists in physical education, health, art, music, speech and reading. (E)
Prerequisites: EMSE 2800, 3800, 3123, 3140; EDUC 3000, 3400; and completion of 95 s.h. of coursework, 2.75 G.P.A.
Co-requisite: EMSE 4900
Required: For all majors in Elementary Education; Elementary Education, Bilingual Option
Prerequisites for Bilingual Option: EMSE 2800, 3800, 3410, 4441; EDUC 3000, 3403; and completion of 95 s.h. of coursework, 3.00 G.P.A.

EMSE 4811 Professional Internship for Subject Area Teachers, P-12 (9)
A full-semester, full-time, supervised teaching experience in English, foreign language, mathematics, science or social studies. (E)
Prerequisites: EMSE 2801, 3801, EDUC 3000, 3401 and one of the following: EMSE 3210, 3220, 3230, 3240, or 3250, and completion of 95 s.h. of coursework, passing score on appropriate Praxis exams, 3.00 G.P.A.
Co-requisite: EDUC 4000

Required: For all students seeking K-12 subject area certification who started after September 1, 2005
Prerequisites for Bilingual Option: EMSE 2800, 3800, 3410, 4441; EDUC 3000, 3403; and completion of 95 s.h. of coursework, 3.00 G.P.A.

EMSE 4812 Professional Field Experiences in Middle School 5-8 (9)
A full-semester, full-time, supervised teacher candidate teaching experience in a middle school classroom in one of the following disciplines: English, Spanish, mathematics, science, or social studies. (E)
Prerequisites: EDUC 3000, 3400, EMSE 3140, EMSE 3123, EMSE 3800, all with B- or better; Passing grade on the General Knowledge Praxis Exam
Co-requisite: EMSE 4900

Required: Option for teacher candidates seeking K-5 certification with 5-8 endorsement. Required for CAMS scholars.
Prerequisites for Bilingual Option: EMSE 2800, 3800, 3410, 4441; EDUC 3000, 3403; and completion of 95 s.h. of coursework, 3.00 G.P.A.

EMSE 4900 Senior Seminar (3)
Reflective study of teaching and curriculum, with emphasis on the professional internship in multicultural, inclusive classrooms. Student portfolios showcased. Taken with EMSE 4810/4812 during evening hours. (E)
Prerequisites: EMSE 2800, 3123, 3140, 3800; EDUC 3000, 3400. For Bilingual Option: EMSE 2800, 3410, 4441, 3800; EDUC 3000, 3403.
Corequisite: EMSE 4810/4812

FOUNDATIONS

EMSE 4020 Historical Perspectives in American Education (3)
Examination of the impact of humanistic thought and cultural pluralism in the formation of educational policy.

EMSE 4022 Education and Social Change (3)
Examination of the forces which shape and are modified by the educational process. Discovery of the ways this happens. Where appropriate, applications for the improvement of the educational process.

EDUCATION

EDUC 3000 Curriculum, Evaluation and the Learner (3)
Principles of curriculum, concepts of evaluation, characteristics of learners, and the interrelationships among these principles, concepts, and characteristics. (E, SSI, SSII, WS)
Prerequisite: Declared education major, 3.00 G.P.A., EMSE 2800 or 2801.
Required: Of all students seeking initial teaching certification.

**EDUC 3400 Language Arts/Reading in the
Preschool and Elementary
Curriculum (3)**

Theory and practice of teaching listening, speaking, reading, writing, and grammar with topics appropriate to the grade level and content. Emphasis will be on the development of a literature-based, integrated approach to the language arts.

Required: Declared education major, 3.00 G.P.A., for all under-graduate initial certification students in the Elementary and Early Childhood Programs.

**EDUC 3401 Language Arts/Reading in
P-12 Subject Area Teaching (3)**

Theory and Practice of teaching listening, speaking, reading, and writing with topics appropriate to the grade level and content. Strongly suggested that the course be taken with the Junior Field Experience.

Prerequisites: Declared education major, 3.00 G.P.A., "B-" or better in EMSE 2801.

Required: For all undergraduate initial certification students in P-12 Subject-Teaching Programs.

**EDUC 3403 Language Arts/Reading in the
Preschool and Elementary
Curriculum for Limited English
Proficient Students (3)**

Theory and practice of teaching listening, speaking, reading, writing and grammar in both first and second language development. Topics and techniques appropriate to grade level, content and level of linguistic proficiency in two languages will be included.

Prerequisites: Declared education major, 3.00 G.P.A.

Corequisite: EMSE 3800.

Required: For all undergraduate initial certification students in Elementary and Early Childhood Programs seeking Bilingual education endorsement.

EDUC 4000 Teacher and Classroom (3)

Analysis of classroom dynamics, the application of knowledge to learning in the classroom, making teaching decisions, and using instructional formats are emphasized. Classroom management and organization techniques are examined.

(E)

Prerequisite: EDUC 3000, declared education major, 3.00 G.P.A..

Corequisite: EMSE 4811 for Instruction in Subject Areas K-12 students.

Required: Of all students seeking initial teaching certification.

School of Physical Education, Recreation & Health

The School of Physical Education, Recreation and Health offers several degree programs tailored to prepare students to become top professionals in the expanding fields of physical education, recreation administration, recreation therapy, athletic training, global fitness and wellness, and health education. Recent statistics indicate that jobs in fitness and recreation are among the fastest-growing in the nation.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-education/collegeprogram-mission-and-slos>

Athletic Training

PROGRAM COORDINATOR:

Prof. Raymond DiVirgilio, ATC
(908) 737-0663

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The Bachelor of Science in Athletic Training is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The program has been placed on Probation as of February 19, 2016 by the CAATE, 6850 Austin Center Blvd., Suite 100, Austin, TX 78731-3101. Athletic trainers are responsible for the prevention and care of athletic injuries and illnesses.

Upon graduation, students receive a Bachelor of Science degree and qualify to take the Board of Certification (BOC) Examination. Under the governance of the State Board of Medical Examiners, those New Jersey residents who pass the BOC Exam qualify to be licensed and work as athletic trainers in New Jersey.

A 3.0 G.P.A. is required for admission into, continuation in, and graduation from the program. All program courses require an 80% (B-) or better for admission into, continuation in, and graduation from the program. For other requirements, refer to the Athletic Training Majors Handbook.

For more information about this highly competitive program and its special application process, contact Prof. Ray Divirgilio.

B.S. DEGREE IN ATHLETIC TRAINING

(Effective Fall 2015 requirements below; for prior years, see archived catalogs at: <http://www.kean.edu/academics/undergraduate-catalog>)

GENERAL EDUCATION 35

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1
OR
GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition 3
MATH 1000, 1010, 1016 or 1054 3
COMM 1402 Speech Communication as Critical Citizenship 3
GE 2022 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 6
*ENG 2403 World Literature 3
Select one:
Fine Arts or Art History 3
Foreign Languages² 3
Music or Theatre 3
Philosophy or Religion 3
Social Sciences 6
*HIST 1062 Worlds of History 3
PSY 1000 General Psychology⁵ 3
Science & Mathematics 7
CPS 1031,1032 or 1231 Computer Sciences 3
BIO 1000 Principles of Biology^{3**} 4

CAPSTONE COURSE 3

PED 4521 Prof Development in Athletic Training 3

ADDITIONAL REQUIRED COURSES 14

ID 1225 Issues Contemporary Health 3
PSY 2110 Psychology of Adolescence⁵ 3
BIO 2402 Anatomy and Physiology⁴ 4
BIO 3405 Gross Anatomy 4

ACADEMIC MAJOR 51

PED 1011 Strength Fitness** 1
PED 1020 Personal Fitness** 1
PED 2500 Intro. to Biomechanics** 3
PED 2510 Intro. to Athletic Training Lab 1
PED 2511 Intro. to Eval. Lab II 1
PED 2520 Intro. to Athletic Training 3
PED 2521 Intro to Eval & Mgt of A.T. 3
HED 3231 First Aid & Accident Prevention 3
PED 3501 Risk Management 3
PED 3502 Upper Extrem Inj./AT 3
PED 3503 Lower Extrem Inj./AT 3
PED 3504 Therapeutic Modalities 4
PED 3505 Kinesiology^{4**} 3
PED 3510 Physiology of Exercise** 3
PED 3525 Rehab. of Athletic Injuries 4
HED 3600 Nutrition 3
PED 4520 Prin of Org & Admin of A.T. 3
PED 4801 Pharmacology and Sports 3
PED 4802 Inst. in Ath. Inj. Diag. 3

PROFESSIONAL EDUCATION*** 5

PED 2512 Sophomore Field Experience 1
PED 3693 Jr. Clin. Exper. in A.T. I 1
PED 3694 Jr. Clin. Exper. in A.T. II 1

PED 4692 Sr. Clin.I in A.T. 1
PED 4693 Sr. Clin.II in A.T. 1

FREE ELECTIVES 15
(50% at 3000 - 4000 level)

TOTAL CREDITS 120

For Athletic Training course descriptions, see the Physical Education course descriptions.

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

²You must take 2 sem. of a language to receive GE credit

³Bio 1000 is a prerequisite for Bio 2402

⁴Bio 2402 is a prerequisite for PED 3505

⁵PSY 1000 is a prerequisite for PSY 2110

*G.E. required course

**Requires a C or better

***Athletic Training Courses require a B or better

Physical Education

The major in physical education provides for professional preparation in two areas of specialization: global fitness and teaching certification. Students selecting the global fitness option would be qualified for fitness positions in business and industry. Students selecting the teaching option would be qualified to teach grades P-12 in health and physical education. A 2.75 G.P.A. is required for admission into the Global Fitness option. A 3.0 G.P.A. is required for admission into the teacher certification major.

Core Academic Skills for Educators

In order to be eligible for admission into the program as a declared major, students must take and earn the New Jersey Qualifying scores on the reading, writing and math sections of the Praxis I exam.

Praxis II

All students must take and pass the Praxis II Health and Physical Education Content Knowledge exam to be eligible to take the senior field experience. (Test 5857)

Refer to the Physical Education Major's Handbook and the Dean's Council for Transfer Students for other admission requirements.

GLOBAL FITNESS & WELLNESS

B.S. DEGREE IN PHYSICAL EDUCATION*

OPTION: GLOBAL FITNESS & WELLNESS (25106)*

FOR STUDENTS ADMITTED FALL 2015 OR LATER*

Coordinator: Dr. Walter Andzel
(908) 737-0662 D'Angola 216.

* Effective Fall 2015 requirements below.
B.A. Degree changed to B.S. Degree effective Fall 2015; Adult Fitness option changed to the Global Fitness and Wellness Option effective Fall 2013; for prior years, see archived catalogs at: <http://www.kean.edu/academics/undergraduate-catalog>

A GRADE POINT AVERAGE OF 2.75 IS REQUIRED FOR ADMISSION.

GENERAL EDUCATION REQUIREMENTS 32

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition 3

MATH 1030 Problem Solving 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2022 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 6

ENG 2403 World Literature 3

Select one courses from:

Fine Arts or Art History 3

Foreign Languages 3

Music or Theatre 3

Philosophy or Religion 3

Social Science 6

HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

Science & Mathematics 7

MATH/CPS 3

BIO 1000 Principles of Biology 4

ADDITIONAL REQUIREMENTS 10

PSY 3110 Life Span 3

ID 2950 Technology and the Young Child 3

BIO 2402 Anatomy & Physiology 4

PROFESSIONAL EDUCATION 22

PED 2800 Pre-Prof. Field Experience 3

PED 3612 Group & Personal Exer. Prog. 3

PED 3692 Junior Field Exp. Fitness 1

PED 4626 Prescriptive Exercise Prog. 3

PED 4627 Adult Fitness Internship 3

PED 4629 Exercise Testing & Interpretation 3

PED 4630 Electrocardiography 3

CAPSTONE COURSE 3

PED 4625 Org. Adm. Global Fit/Well Prog 3

MAJOR REQUIREMENTS 44

REQUIRED 30

PED 1500 Introduction to Motor Learning 3

PED 2500 Biomechanics 3

PED 3505 Kinesiology 3

PED 3510 Physiology of Exercise 3

PED 3515 Wellness 3

MGS 2030 Business Organization & Management 3

PED 3500 Care & Prevention of Athletic Injuries 3

PED 4605 Assessment in Physical Educ. 3

HED 3600 Nutrition 3

HED 3231 First Aid Disaster Prep/Injury Prev 3

PHYSICAL ACTIVITIES 11

PED 1045 (Men's Events), PED 1047 (Women's Events) or PED 2048 Intermediate Gymnastics) 2

PED 1011 Strength Fitness 1

PED 1020 Personal Fitness 1

PED 1021 Personal Fitness II 1

OR Activity 1

PED Dance Choice 1

PED 1109 Zumba Fitness® 1

PED 1130 Aerobic Dance 1

PED 1022 Tai Chi Chih 1

PED 1023 Yoga 1

PED 1108 Pilates 1

PED/HED ELECTIVE OPTION

Choose one course (3 s.h.)

PED Academic 3

OR

HED Academic 3

FREE ELECTIVES 12

Selected with advisement. At least 50% must be at 3000 level or above.

TOTAL 120

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

PHYSICAL EDUCATION AND HEALTH TEACHING CERTIFICATION PROGRAM P-12

B.S. DEGREE IN PHYSICAL EDUCATION*

OPTION: PHYSICAL EDUCATION AND HEALTH TEACHING CERTIFICATION (25105)*

FOR STUDENTS ADMITTED FALL 2015 OR LATER*

Coordinators: Dr. Josh Palgi

D'Angola, 207 (908) 737-0653

Professor Lisa Szekeres OGAT 331

(732) 255-0400 x2002

*Effective Fall 2015 requirements below.
B.A. Degree changed to B.S. Degree effective Fall 2015; for prior years, see archived catalogs at: <http://www.kean.edu/academics/undergraduate-catalog>

A GRADE POINT AVERAGE OF 3.0 IS REQUIRED FOR ADMISSION

GENERAL EDUCATION REQUIREMENTS 32

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition 3

MATH 1010 Foundations of Math 3

COMM 1402 Speech Comm. 3

GE 2022 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 6

ENG 2403 World Literature 3

Select one course from GE Hum 3

Social Sciences 6

HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

Science and Mathematics	7	PED 1011	Strength Fitness	1	HED 3533	Methods and Material of Health Education in Elementary and Secondary Schools	3
MATH 1016 or 1030	3	PED 1020	Personal Fitness	1	HED 3600	Nutrition	3
BIO 1000 Principles of Biology	4	PED 1021	Personal Fitness II (or)	1	HED 3635	Introduction to Public Health	3
ADDITIONAL REQUIREMENTS	10	PED Elective		1	HED 3725	Death in Perspective	3
PSY 2100 Child Psychology	3	PED/HED ELECTIVES	3		HED 4101	Epidemiology and Disease	3
ID 2950 Tech. & the Young Child	3	Select three 1-credit courses from Movement Forms categories or select one 3-credit elective from PED or HED courses	3		HED 4333	Drug Use and Abuse	3
BIO 2402 Human Anat. & Phys.	4				HED 4400	Essentials in Global Health	3
ACADEMIC MAJOR	78	TOTAL	120		HED 4650	Community Health Counseling	3
PROFESSIONAL EDUCATION	27	<i>¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).</i>					
Sophomore Level		MINOR			HEALTH EDUCATION COURSES		
PED 2800 Pre-Prof. Field Exp.	3	HEALTH EDUCATION	18 CREDITS		ID 1225	Critical Issues and Values of Contemporary Health	(3)
Junior Level		REQUIRED COURSES	6 CREDITS		Contemporary health issues and health-related problems coupled with an exploration of select-ed resources and strategies designed to advance individual, familial, and community health. (E)		
EDUC 3401 Lang. Arts/Reading P-12	3	(Two courses in health education selected with advisement)			This is the only course which fulfills the General Education Health Education requirement. (See Interdisciplinary Listings).		
PED 3610 Curr/Prog. Elem PED	3	*ID 1225 Critical Issues and Values in Contemporary Health	3		ID 1226	Critical issues in Global Health	(3)
PED 3611 Curr/Prog. Sec. PED	3	(*This course is required of all B.S. majors; B.A. majors cannot count this as part of their minor if it is taken as part of the general education curriculum).			Introduction to critical Issues and values in global health. Emphasis is on global Partnerships to improve the health of people around the world. (E3)		
PED 3690 Pre-Prof. Field; Elem.	1	B.A. students select two of the following courses; B.S. students select one course below:			<i>Prerequisite: ID 1225</i>		
PED 3691 Pre-Prof. Field: Sec.	1	HED 3533 Methods and Material of Health Education in Elementary and Secondary Schools	3		HED 2100	Principles of Community Health	(3)
PED 4600 Adapted Phys. Ed.	3	OR			Provides an understanding of the complex determinants of community health and the strategies use to educate and improve the health of populations.		
EMSE 3903 Teaching ELL	1	HED 3300 Community Mental Health	3		HED 3034	Reiki	(3)
Senior Level		OR			White Light Reiki(ray-kee)is spiritually guide life force energy based on the Usui system of energy therapy that offers First, Second and Third degree levels of training. It introduces the procedures for assessing and giving complete treatments to self and others. In-class practicum. (FA)		
PED 4699 Student Teaching	9	HED 4650 Community Health Counseling	3		HED 3100	Environmental Health	(3)
CAPSTONE COURSE	3	GUIDED ELECTIVES	12 CREDITS		Study of the complex determinants of environmental health on human disease and examine strategies to educate and engage the public on environmental health issues that influence community health (3)		
PED 4610 Org./Adm./Sup of Physical Education	3	(Four additional courses in health education selected with advisement)			HED 3160	Health Perspectives for Women	(3)
ACADEMIC MAJOR REQUIRED	30	<i>Health Education Courses</i>			An examination of the unique psychological, sociological, physical and sexual aspects of feminine health. Attention will be directed toward the development of consumer awareness necessary for interaction with the health care system. (FA)		
PED 1500 Intro. to Motor Learning	3	ID 1226 Critical Issues and Values in Global Health	3		HED 3200	Holistic Health	(3)
PED 2500 Intro. to Biomechanics	3	HED 2100 Principles of Community Health	3		Analyzes the history, principles, and practices of holistic approaches to health. (E)		
PED 3505 Kinesiology	3	HED 3034 Reiki	3		HED 3231	First Aid Disaster Prep Injury Prev	3
PED 3510 Physiology of Exercise	3	HED 3100 Environmental Health	3		HED 3232	Emergency Medical Responder	3
PED 3515 Wellness	3	HED 3160 Health Perspectives For Women	3		HED 3260	Health Perspectives for Men	3
PED 3608 Individual/Dual Sports	3	HED 3200 Holistic Health	3		HED 3270	Minority Health Issues	3
PED 3609 Team Sports Skills/Con.	3	HED 3231 First Aid Disaster Prep Injury Prev	3		HED 3300	Community Mental Health	3
PED 4605 Assessment in P.E.	3	HED 3232 Emergency Medical Responder	3		HED 3400	Human Sexuality	3
HED 3533 Methods & Materials	3	HED 3260 Health Perspectives for Men	3		HED 3460	Women's Global Health and Human Rights	3
HED 3231 FirstAid/Disaster Prep/ injury Prev	3	HED 3270 Minority Health Issues	3				
HEALTH ELECTIVES	9	HEALTH EDUCATION COURSES					
Select three Health Education Courses from the following:		ID 1226 Critical Issues and Values in Global Health	3				
HED 3160 Health Perspectives of Women	3	HED 2100 Principles of Community Health	3				
HED 3300 Community Mental Health	3	HED 3034 Reiki	3				
HED 3400 Human Sexuality	3	HED 3100 Environmental Health	3				
HED 3537 School & Community Health Program	3	HED 3160 Health Perspectives For Women	3				
HED 3600 Nutrition	3	HED 3200 Holistic Health	3				
HED 3635 Intro. To Public Health	3	HED 3231 First Aid Disaster Prep Injury Prev	3				
HED 3725 Death in Perspective	3	HED 3232 Emergency Medical Responder	3				
HED 4333 Drug Use & Abuse	3	HED 3260 Health Perspectives for Men	3				
HED 4650 Community Health Counseling	3	HED 3270 Minority Health Issues	3				
PHYSICAL ACTIVITIES	6	HED 3300 Community Mental Health	3				
PED Dance Select one	1	HED 3400 Human Sexuality	3				
Gymnastics – Select one (2 S.H.)		HED 3460 Women's Global Health and Human Rights	3				
PED 1045, 1047, 2048	2						
Fitness – Select three of the following:							

through the American Heart Association. Required for Physical Education majors: Elective for others. (E)

HED 3232 Emergency Medical Responder (3)
An emergency medical responder is the first person on the scene of an emergency. Certification in EMR and American Heart Association BLS for Health Care providers will be received upon successful completion of the course requirements and payment of appropriate fees. (E)
Pre-requisite: Permission from the Program Coordinator

HED 3260 Health Perspectives for Men (3)
Exploration of the social, political, and Theoretical underpinnings of men's health from an international and interdisciplinary perspective. (E)

HED 3270 Minority Populations and Health: An Introduction to Health Disparities in the United States (3)
Exploration of racial/ethnic disparities in health and health care in the United States.

HED 3300 Community Mental Health (3)
A study of personality development and human adjustment with an examination of treatment procedures and prevention programs. (E)

HED 3400 Human Sexuality (3)
Sex and sexuality in today's society, with implications for evolving interpersonal relationships, dating patterns, marriage, and responsible parenthood. (E)

HED 3460 Women's Global Health and Human Rights (3)
Exploration of similarities and differences in health and human rights challenges faced by women in different regions of the world. (E)

HED 3533 Methods and Materials of Health Education in Elementary and Secondary Schools (3)
Prepares P-12 health educators to promote their students' wellness by providing accurate information, exploring personal values, and enhancing healthful behaviors. (E)
Prerequisites: ID 1225 plus two of the following courses: HED 3400, HED 3600 and HED 4333.

HED 3600 Nutrition (3)
Nutritional facts required for daily dietary needs related to mental, physical and social performance. (E)

HED 3635 Introduction to Public Health (3)
Prevention, sociological and anthropological aspects, planning, and organization of community health problems and programs. (E)

HED 3725 (3350) Death in Perspective (3)
The past, present and future individual and societal concepts of dying, death and bereavement, death education, and exploration of related ethical issues. A field trip is required. (E)

HED 4100 Independent Study in Health Education (1-3)
Intensive study in an area of health education implemented by the student under the guidance of a health education member in the Department of Physical Education, Recreation, and Health. Open only to students with permission of the instructor and department chairperson to complete a specific need not available in currently offered established courses. First Aid, Safety, Accident Prevention

HED 4101 Epidemiology and Disease (3)
Understand the basic aspects of common human diseases and understand the principles of epidemiology as it relates to community health.

HED 4231 First Aid Instructor (3)
This course prepares students to become EMS instructors for First Aid, CPR and AED according to the standards of the Emergency Care and Safety Institute (ECSI) and the American Heart Association (AHA). (SP)
*Prerequisites: HED*3231 or HED*3232, Current certifications in Advanced First Aid or Emergency Medical Responder or Emergency Medical Technician, and American Heart Association Basic Life Support CPR, and departmental permission.*

HED 4333 Drug Use and Abuse (3)
A course which promotes biopsychosocial exploration of chemical use and dependency. Students are given the opportunity to learn about drug use and abuse, explore their attitudes about this topic, and build skills in promoting drug prevention and intervention strategies. (E/S1/S2)

HED 4400 Essentials in Global Health (3)
Exploration of critical issues in health development link between developing countries, and the health needs of poor and disadvantage people. (SP)

HED 4650 Community Health Counseling (3)
An analysis of physical, mental, emotional and social health problems of elementary and secondary school pupils, as well as remedial procedures and handling of confidential records. (E)

HED 4760 Global Health in Science Fiction (3)
Examination of contemporary global health issues and changing societal conditions through science fiction text and audio-visual. Emphasis on applying quantitative and qualitative reasoning to contemporary global health problems. (FA)
Prerequisite: ID 1225

PHYSICAL EDUCATION COURSES

MOVEMENT FORMS: SPORT AND FITNESS

PED 1000 Beginning Archery (1)
Archery, terminology, safety and fundamental skills. Opportunities will be provided for competition and archery games.

PED 1005 Badminton I (1)
Includes the skills, knowledge and strategies of badminton.

PED 1010 Beginning Basketball (1)
Fundamental skills, techniques, rules, and concept of play. (F, SI)

PED 1011 Strength Fitness (1)
An activity course focusing on body building methods and techniques such as free weights, Life Fitness and Hammer machines as a fitness activity. (E)

PED 1015 Bowling (1)
The fundamentals of beginning bowling discussed and demonstrated, particularly the basic approaches and deliveries. Rules and scoring regulations also discussed.

PED 1020 Personal Fitness I (1)
Development of flexibility, cardio-respiratory and musculoskeletal fitness through physiological conditioning. (E)

PED 1021 Personal Fitness II (1)
A continuation of Personal Fitness I stressing lifetime benefits of personal fitness. (E)
Prerequisites: Personal Fitness I or permission of instructor.

PED 1022 T'ai Chi Chih (1)
Circulate and balance the intrinsic energy, the vital force of the body known as "chi," through the non-martial art of T'ai Chi Chih, a moving meditation. Originated by Justin Stone, 20 simple, fluid movements are introduced and practiced. Benefits of regulated blood pressure, weight and stress reduction, greater energy, peak performance. (E)

PED 1025 Beginning Fencing (1)
Fundamentals of foil fencing and the rudiments of competition.

PED 1030 Beginning Field Hockey (1)
Fundamental skills, techniques, rules and concepts of team play in field hockey.

PED 1035 Beginning Football (1)
Basic motor skills and offensive and defensive strategies in football.

PED 1040 Beginning Golf (1)
The basic skills of golf examined.

PED 1045 Beginning Gymnastics (Men's Events) (2)
Required of all male physical education majors and an elective for non-majors. Emphasis on basic gymnastics skills in the six Olympic events for men: floor exercise, vaulting, parallel bars and horizontal bar, pommel horse and still rings. Designed to introduce the student to gymnastics and develop the student's skill. (E)

PED 1047 Beginning Gymnastics (Women's Events) (2)
Required of all female physical education majors and an elective for non-majors. Emphasis on basic gymnastics skills in the four Olympic events for women: floor exercise, vaulting, uneven parallel bars, and balance beam. Designed to introduce the student to gymnastics and develop the student's skill. (E)

PED 1055 Lacrosse (1)
Basic skills and techniques necessary to participate in lacrosse games.

PED 1060 Skiing (1)
Suitable for beginning through intermediate downhill skiers. Techniques, conditioning, equipment, and safety addressed. Off campus, fee required (lift tickets and, if appropriate, equipment rental).

- PED 1062 Self Defense for Women (1)**
Recognition of risk situations and attitudes, avoiding unwanted approaches, and specific self defense maneuvers.
- PED 1065 Beginning Soccer (1)**
Basic skills, techniques, rules and concepts of soccer. (E)
- PED 1070 Beginning Softball (1)**
Skills, techniques, rules and team strategies of softball. (E)
- PED 1075 Speedball (1)**
Skills, techniques, rules, and concepts of speedball.
- PED 1080 Beginning Swimming (1)**
The inexperienced swimmer develops a feeling of safety in deep water; learns a one-minute support and swims a minimum of two pool lengths using two different strokes in two different positions. Only those students who cannot swim two lengths of the pool (50 yards) will be accepted in this course. (E)
Prerequisite: Novices or non-swimmers only.
- PED 1081 Intermediate Swimming (1)**
The seven basic swimming strokes, beginner's diving, water games and stunts. (E)
Prerequisite: Course is designed for students who can swim for a distance of 50 meters and feel comfortable in deep water.
- PED 1088 Beginning Tennis (1)**
Fundamental tennis skills: forehand and backhand, serve, and volley. Basic singles and doubles strategies and rules. (E)
- PED 1090 Paddle (Platform) Tennis (1)**
Covers the basic skills, rules and strategies for effective doubles play. Off-campus facilities used; fee required.
- PED 1091 Beginning Racquetball (1)**
Racquetball skills: Strategies and rules. Off-campus courts will be used; fee required.
- PED 1092 Track and Field (1)**
Beginning skills in track and field events.
- PED 1095 Beginning Volleyball (1)**
Individual skills, techniques, and strategies of power volleyball. (E)
- PED 1098 Wrestling (1)**
Introduction to the fundamental techniques and strategies of free-style wrestling with emphasis on the biomechanics of the activity.
- PED 1107 Creative Movement (1)**
An introduction in exploring and discovering the creative process through movement for Expressive purposes. Practice on problem solving movement activities, improvisation, And composition. Attending a dance performance outside of the class is required for supplementing the instruction and to broaden the student's understanding, awareness and appreciation of the Art of Dance.
- PED 1130 Aerobic Dancing (1)**
A total exercise experience, combining music and dancing, with emphasis upon development of cardiovascular fitness. (E)
- PED 1920 Designing Games (1)**
Introduces principles and practices of customizing games so that individuals of all abilities can become more skillful (motor, cognitive, and social) games players. This course is appropriate for physical educators, recreation professionals and classroom teachers.
- PED 2000 Intermediate Archery (1)**
Advanced shooting in target archery, target archery tournaments, field archery, field archery tournaments, archery games and novelties.
Prerequisite: PED 1000 or permission of instructor.
- PED 2010 Intermediate Basketball (1)**
Advanced techniques of offensive and defensive patterns of basketball.
Prerequisite: PED 1010 or permission of instructor.
- PED 2025 Intermediate Fencing (1)**
Advanced foil skills and techniques, and basic epee and sabre skills.
Prerequisite: PED 1025 or permission of instructor.
- PED 2030 Intermediate Field Hockey (1)**
Advanced skills and techniques of field hockey, advanced team strategy.
Prerequisite: PED 1030 or permission of instructor.
- PED 2035 Intermediate Football (1)**
More advanced fundamentals, rules, strategy, concepts and methods of teaching football.
Prerequisite: PED 1035 or permission of instructor.
- PED 2040 Intermediate Golf (1)**
Covers performance, biomechanical analysis of advanced golf skills, and play analysis.
Prerequisite: PED 1040 or permission of instructor.
- PED 2048 Intermediate Gymnastics (Mixed Events) (1)**
An elective course open to physical education majors and non-majors. Emphasis on more advanced gymnastics skills in the various Olympic events for men and women. Designed to advance the student's skill and knowledge in gymnastics beyond the basic skills.
Prerequisite: Beginning Gymnastics or permission of instructor.
- PED 2065 Intermediate Soccer (1)**
Emphasis on intermediate soccer skills, knowledge of offensive and defensive team strategies, and the appreciative aspects of spectating. (E)
Prerequisite: PED 1065 or permission of instructor.
- PED 2082 Advanced Swimming Skills (1)**
Course deals with the acquisition of advanced swimming skills, fundamental dives, basic stunts, synchronized swimming, and snorkeling. Equipment needed: snorkel, mask, fins.
Prerequisite: Ability to swim front crawl, back crawl, breast stroke and side stroke in comfortable combination for 10 minutes in deep water.
- PED 2083 American Red Cross Basic Lifeguarding (1)**
Basic lifeguarding skills required for pool guards. A.R.C. basic lifeguard certification awarded upon participation and completion of skills and written tests.
Prerequisites: PED1081 Intermediate Swimming, current Red Cross Intermediate Certification, or Instructor's permission; Standard American Red Cross First Aid and Adult CPR Certificate.
- PED 2084 Swimming Fitness (1)**
An activity program using swimming activities for aerobic fitness and wellness benefits.
Prerequisites: The ability to swim front and back crawl, breast and side stroke in comfortable combination for 10 minutes in deep water.
- PED 2085 Skin and Scuba Diving (1)**
Basic skills of skin and scuba diving with special emphasis on safety. Leads to international scuba certification (P.A.D.I.). Fee required for scuba equipment rental.
Prerequisite: PED 1081.
- PED 2088 Intermediate Tennis (1)**
More advanced aspects of tennis: spin, overhead smash, drop shot, skills, strategies for the serve-and-volley game.
Prerequisite: PED 1088 or permission of instructor.
- PED 2095 Intermediate Volleyball (1)**
Intermediate techniques and strategies of power volleyball.
Prerequisite: PED 1095 or permission of instructor.
- DANCE**
- PED 1101 Beginning Modern Dance I (1)**
Fundamentals of movement technique for creative and expressive purposes. (E)
- PED 1102 Beginning Modern Dance II (1)**
Development of Beginning Modern Dance I with emphasis on greater technical skills for stage performance purposes.
Prerequisites: PED 1101 or permission of instructor.
- PED 1103 Beginning Jazz Dance I (1)**
Fundamentals of contemporary jazz dance with emphasis on basic technique, rhythm and style. (E)
- PED 1104 Beginning Jazz Dance II (1)**
Development of Beginning Jazz I with emphasis on technique and rhythm in greater depth for performance purposes.
Prerequisites: PED Beginning Jazz Dance I or permission of instructor.
- PED 1105 Beginning Ballet I (1)**
The historical development, the basic skill technique and the movement vocabulary in classical ballet. (E)
- PED 1106 Beginning Ballet II (1)**
A continuation of PED 1105, Beginning Ballet I, placing emphasis upon higher skill levels of ballet vocabulary performance together with rhythmic accuracy, stage performance, and world wide ballet styles.
Prerequisite: PED 1105 or permission of instructor.
- PED 1110 Ballroom Dancing (1)**
Ballroom and social dance forms: Fox-trot, Texas Two-step, Polka, Swing, Waltz, Rumba, Cha-Cha, etc.) (E)
- PED 1113 Introduction to Latin Dance (1)**
Fundamentals of social Latin dance forms - Rumba, Mambo, Cha-Cha, Merengue, etc. with an emphasis on rhythm, footwork and partnering. (E)
- PED 1151 Folk and Square Dance (1)**
The techniques, materials and cultural background of folk dance and square dance. (E)

PED 2101 Intermediate Jazz Dance (1)
Development of intermediate level understandings and performance techniques related to jazz dance.
Prerequisite: PED 1103 or permission of instructor.

PED 2102 Intermediate Modern Dance (1)
Intermediate experience level of movement techniques, improvisation and choreography.
Prerequisite: PED 1101 or permission of instructor.

PED 2104 Intermediate Ballet I (1)
Development of the basic rules and movement vocabulary of intermediate ballet.
Prerequisite: PED 1106 or instructor's permission.

PED 2105 Intermediate Ballet II (1)
Elements of artistry in ballet and higher levels of movement vocabulary of intermediate ballet.
Prerequisite: PED 2104 Intermediate Ballet I or instructor's permission.

PED 3100 Creative Dance for Children (3)
Methods and materials in teaching of creative dance to children. Consideration will be given to the significance of creative movement in the education process.

PED 3101 Creative Movement for Selected Populations (3)
Methods and materials in the teaching of creative movement for selected populations. Consideration given to the significance of creative movement in the educational, recreational and rehabilitative process.

PED 3105 Dance History I (3)
Course traces the historic development of ethnic and social dance. Several visitations to dance performances required. This may involve the purchase of tickets.

PED 3106 Dance History II (3)
Course traces the historic development of theatrical dance, dance therapy, dance in education and dance notation in western culture. Several visitations to dance performances required. This may involve the purchase of tickets.

PED 3110 Dance Methods and Techniques for Physical Education Majors (2)
Methods and techniques of teaching modern dance.

PED 3115 Modern Dance Composition (3)
The elements of modern dance, accompaniment and staging as they relate to dance composition.
Prerequisite: PED 2100 or permission of instructor.

PED 3120 Dance Theater (3)
Study of basic techniques used in dance production including staging, accompaniment and learning a repertory dance culminating in a dance performance.
Prerequisites: PED 1102, 2101 or an audition.

PED 3305 Coaching and Officiating of Swimming (3)
A study of rules, techniques and procedures for officiating swimming meets and the exploration of training methods and meet strategies. Students will be prepared to take a recognized swimming officials rating examination.

PED 3310 Coaching and Officiating of Baseball (3)
The rules, techniques and procedures for officiating baseball together with the strategies, fundamentals and psychology of coaching baseball will be examined. Students will receive preparation in order to pass a recognized umpires rating examination. (SP)

PED 3315 Coaching and Officiating of Basketball (3)
The rules, strategies, techniques and roles of coaching basketball will be examined as they apply to the youth league and high school levels. Students will receive preparation in order to pass a recognized high school level rules examination for basketball. (E)

PED 3320 Coaching and Officiating Field Hockey (3)
Educationally sound coaching and officiating of field hockey will be studied. Students will be prepared to take a recognized field hockey officials rating examination.

PED 3325 Coaching and Officiating Football (3)
Preparation of students to coach and officiate football. Students will be prepared to take a recognized football officials rating examination.

PED 3330 Coaching and Administration of Tennis Competition (3)
Mechanics, physiology and psychology as applied to tennis with the rules, tournament organization and specific coaching techniques of tennis.

PED 3340 Coaching and Officiating Volleyball (3)
The rules, techniques, strategies and roles of the volleyball coach will be examined as they apply to the youth sport and high school levels. Students will also be prepared to pass a recognized high school rules examination for volleyball.

PED 3345 Coaching and Officiating Softball (3)
The rules, techniques and procedures of officiating softball together with the strategies, fundamentals and psychology of coaching softball will be examined as it pertains to the high school and youth league level. The students will also be prepared to pass a recognized high school examination for softball officials.

PED 3350 Coaching and Officiating Soccer (3)
The course will emphasize the coaching and officiating aspects of soccer, including fundamental skills acquisition, playing strategy, tactics and fitness. The role of the coach and the psychology of coaching will be analyzed. The rules of the referees and linesman and rule interpretation will be examined.

PED 3355 Coaching and Officiating of Gymnastics (3)
Designed to introduce students to the scientific and practical concepts of coaching competitive gymnastics for both men and women, as well as evaluative techniques necessary to become a rated gymnastic official (judge).

PED 3360 Perspectives on Children in Sports (3)
The positive and negative value and effects of participating in youth sports in respect to the child, parent, parent and coach will be discussed. Emphasis will be placed on the child's rationale for participating, dropping out and the relationship to the coach and parent.

SCIENTIFIC FOUNDATIONS

PED 1500 Introduction to Motor Learning (3)
The course covers basic developmental principles and theories of human growth, development and motor behavior - across the lifespan. Theories and laboratory exercises are surveyed to identify factors affecting learning and performance of motor skills. (E, SI)

PED 2500 Introduction to Biomechanics (3)
Internal and external forces that act on the human body during execution of human movement and sport skills are examined. (E)

PED 2510 Introduction to Athletic Training Lab (1)
This course is designed to give the student an opportunity to practice basic athletic training skills discussed in PED 2520, Introduction to Athletic Training, most of which are required for acceptance into the Athletic Training Education program. Skills include taping and wrapping, pre-season physical skills, the application of basic therapeutic modalities, and equipment fitting. (SP)
Prerequisite: BIO 1000 Co-requisite: PED 2520.

PED 2511 Introduction to Evaluation and Management of Athletic Training Injuries Lab II (1)
This course is designed to give the student an opportunity to practice and learn basic athletic training skills. Skills include basic injury evaluation, rehabilitation procedures, and set-up of therapeutic exercise equipment. Includes field experience.
Corequisite: PED 2510 Registration by petition only.

PED 2512 Sophomore Field Experience in Athletic Training (1)
Athletic training major candidates will engage in a field experience at select affiliated athletic training facilities. Students will demonstrate the ability to apply injury preventive, evaluation, and management skills acquired in the cited prerequisite courses. (SP)
Registration by petition only.

PED 2520 Introduction to Athletic Training (3)
This course is designed to give the student an overview of the athletic training profession and its contemporary roles in athletics. Topics to be discussed will include prophylactic taping, liability aspects of sports, administrative and basic injury preventive techniques. A lab will also be included in this course. (SP)
Co-requisite: PED 2510

PED 2521 Introduction to Evaluation and Management of Athletic Injuries (3)

This course is designed to provide the student with strategies and procedures for recognizing and managing athletic injuries, systemic illnesses and emergency procedures for managing such injuries/illnesses.

Prerequisites: BIO 1000, 2402, PED 2500.
Registration by petition only.

PED 3500 Care and Prevention of Athletic Injuries (3)

An examination of the most recent practices and procedures in the care and prevention of athletic injuries. A laboratory experience will center around prophylactic support and protective equipment for athletic preparation. (SP)

Prerequisite: BIO 2402.

PED 3501 Risk Management and General Medical Conditions for Physical Active (3)

Injury prevention and risk management techniques, and identification and management of general medical concerns of the physically active. This course includes advanced taping techniques. (SP)

Prerequisites: This is a petition course for Athletic Training Education Program students only to be taken during the spring semester of the junior year.

PED 3502 Upper Extremity Injury Evaluation in Athletic Training (3)

Advanced procedures for evaluating upper extremity musculoskeletal injuries to the athlete, locating anatomical landmarks, and analysis of simulated injuries. This course includes advanced methods of injury evaluation.

Prerequisite: PED 3500, *registration by petition only*

PED 3503 Lower Extremity Injury Evaluation in Athletic Training (3)

Advanced procedures for evaluating lower extremity musculoskeletal injuries to the athlete, locating anatomical landmarks, and analyzing simulated injuries. (SP)

Prerequisites: *Registration by petition only*

PED 3504 Therapeutic Modalities in Athletic Training (4)

Examination of the theoretical and clinical application of the therapeutic modalities used in the treatment of musculoskeletal injuries to athletes. (SP)

Registration by petition only.

PED 3693 Junior Clinical I Field Experience in Athletic Training (1)

Field experience for acute injury management, equipment-intensive sports coverage and therapeutic modalities. Includes proficiency evaluation, and a maximum of 40/week including class contact time if covering a team and a maximum of 25 hours including class contact time if not covering a team.

Prerequisites: This is a petition course for Athletic Training Education Program students only to be taken during the fall semester of the junior year
Corequisites: PED 3502

PED 3694 Junior Clinical II Field Experience in Athletic Training (1)

Field experience for upper body musculoskeletal injuries, equipment-intensive sports coverage and rehabilitation. Includes proficiency evaluation, and a maximum of 40/week including class contact time if covering a team and a maximum of 25 hours including class contact time if not covering a team. (SP)

Prerequisites: This is a petition course for Athletic Training Education Program students only to be taken during the spring semester of the junior year
Corequisite: PED 3503

PED 3505 Kinesiology (3)

Fundamental anatomical analyses of human movement and sport skills. (E)

Prerequisite: BIO 2402.

Required of physical education majors.

PED 3510 Physiology of Exercise (3)

Structure and function of skeletal muscles, energy sources, oxygen requirements for muscular activity and fitness assessment and exercise prescription utilizing the computer. (E, SI, SII)

Prerequisite: PED 2500.

PED 3515 Wellness

Current concepts and practices of wellness (a mind-set that personifies a positive approach to health and fitness) as a lifestyle.

Prerequisite: ID 1225 or permission of the instructor.

PED 3525 Rehabilitation of Athletic Injuries Theory and Practices (4)

This course will include biomechanics, kinesiological and systemic principles that are involved in rehabilitation techniques of musculoskeletal athletic injuries. Strategies for designing and procedures for implementing rehabilitation programs are discussed.

PED 4520 Principles of Organization and Administration of Athletic Training (3)

This Capstone Course addresses Principles and Organization of Athletic Training Programs including administration, budgeting, and risk management.

Prerequisite: This is a petition course for athletic training education program students only which is to be taken during the fall semester of the senior year.

PED 4521 Professional Development in Athletic Training (3)

This course focuses on professional development needs of the athletic trainer. (SP)

Prerequisites: This is a petition course for Athletic Training Education program students only and is to be taken during the spring semester for the senior year; PED 4520.

PED 4626 Prescriptive Exercise Programming (3)

Assessment of various components of physical fitness, the general principals of exercise testing and exercise prescription, and the importance of such factors as age, gender, environment and health status on exercise prescription in adult fitness programs. (SP)

Required for Option in Adult Fitness

Prerequisite: PED 3510

PED 4629 Exercise Testing and Interpretation (3)

Principles and Techniques for measuring and evaluating human physical performance in an adult fitness program. (SP)

Require for Option in Adult Fitness

Prerequisite: PED 3510

PED 4630 Electrocardiography (3)

An overview of the heart, the circulatory system and the pathophysiology of coronary artery disease, with an emphasis on learning the basic principles of ECG, the importance of the 12-lead ECG as a diagnostic tool and the effects of exercise, drugs, and disease on the interpretation of ECG testing.

Required for Option in Adult Fitness

Prerequisite: PED 3510

PED 4692 Senior Clinical I Field Experience in Athletic Training (1)

Field experience for lower body musculoskeletal injuries, equipment-intensive sports coverage, and general medicine. Includes proficiency evaluation, and a maximum of 40/week including class contact time if covering a team and a maximum of 25 hours including class contact time if not covering a team.

Prerequisite: registration by petition only

Corequisite: PED 4520

PED 4693 Senior Clinical II Field Experience In Athletic Training (1)

Field experience for equipment-intensive sports rotation, general medical rotation, and one special request/interest rotation. Includes proficiency evaluation, and a maximum of 40/week including class contact time if covering a team and a maximum of 25 hours including class contact time if not covering a team. (SP)

Prerequisite: registration by petition only

Corequisite: PED 4521

PED 4801 Pharmacology and Sports (3)

Lectures on prescriptive and non-prescriptive pharmaceuticals utilized with athletes by physicians, athletic trainers, psychologists, and physical therapists. (SP)

Registration by petition only.

PED 4802 Instruments in Athletic Injury Diagnosis (3)

Assessment of injuries to the thorax and abdomen including heart and thoracic sounds using a stethoscope, clinical application and understanding of diagnostic tools, and general medical conditions. Includes 20 hours of observation at physicians offices.

Registration by petition only.

EDUCATION AND ADMINISTRATION

PED 2610 Adapted Aquatics: Instructor Training Course (3)

Course of study to prepare instructors of aquatic activities for special populations. Leads to certification by American Red Cross.

Prerequisite: Current Red Cross Water Safety Instructor rating or Basic Swimming Instructor Certificate.

PED 3600 Play and Rhythm Activities in Early Childhood Education (3)

Designed to provide the student interested in early childhood education with an understanding and appreciation of the contribution that play and rhythm activities can make towards the development of the whole child concept during this formative stage of growth.

PED 3605 Water Safety Instructor (3)

Emphasizes proficiency in all aquatic skills, expertise in teaching Red Cross swimming and water safety skills. The course is recognized by Red Cross certification.

Prerequisites: Current Red Cross Advanced Life Saving Certification acquired or renewed within the last 3 years; a Red Cross Swimmer Certificate or Swim II.

PED 3608 Individual/Dual Sports Skills and Concepts (3)

Opportunity for Teacher Candidates to recognize, acquire, and demonstrate personal competence in a variety of individual/dual sports skills and concepts. Teacher Candidates will work through the teaching and learning process with the goal of personal improvement.

New Prerequisite: PED 2800

PED 3609 Team Sports Skills and Concepts (3)

Opportunity for Teacher Candidates to recognize, acquire, and demonstrate personal competence in a variety of team sports skills and concepts. Teacher Candidates will work through the teaching and learning process with the goal of personal improvement.

Prerequisite: PED 2800

PED 3610 Curriculum and Programming in Elementary Physical Education (3)

This course introduces the content and methodology of physical education, K-6. It includes an overview of curriculum models and goals of the teacher of the instructional strategies in the teaching-learning setting. (E)

Prerequisite: Admission to the major.

Corequisite: PED 3690

Required of Physical Education Majors: Teaching Certification Option Health and Physical Education Majors: Teaching Certification Option.

PED 3611 Curriculum and Programming Secondary Physical Education (3)

This course introduces the content and methodology of physical education, 7-12 and adult fitness programs. Also includes planning design and implementation of instructional strategies in the teaching-learning setting. (E)

Prerequisite: Admission to the major and successful completion of PED 3610

Corequisite: PED 3691

PED 3612 Group and Personal Exercise Programming in Adult Fitness (3)

Focuses on program development in adult fitness in a variety of cultural settings. Teaching styles, methods, strategies, fundamental skills and exercise forms are emphasized. In order to insure full class participation, any student with a disability condition requiring special accommodations (e.g., tape recorder, special adaptive equipment, special note taking or test taking procedures) is strongly encouraged to contact the professor at the beginning of the course. (SP)

Prerequisite: Admission to the major

Corequisite: PED 3692

PED 3615 Physical Education in the Elementary School (1-1/2)

A laboratory workshop program using classroom, gymnasium and outdoor play space situations to examine methods and materials in physical education for several grades. Philosophy, objectives, and principles of physical education prepares the student to cooperate effectively with the specialist.

PED 3690 Physical Education Junior Field Experience: Elementary (1)

A 15-hour week experience where students assist/teach one half day per week in an elementary public school setting for a total of 45 hours. Students are guided by cooperating teachers. It involves the application of content learned in PED 3610 with an emphasis on management, teaching-learning process and observational skills. On-site observation by college supervisors. (E)

Corequisite: PED 3610

PED 3691 Physical Education Junior Field Experience: Secondary (1)

A 15-week experience where students assist/teach one half day per week in a secondary public school setting for a total of 45 hours. Students are guided by cooperating teachers. It involves the application of content learned in PED 3611 with an emphasis on management, teaching-learning process and observational skills. On-site observation by college supervisors. (E)

Corequisite: PED 3611

PED 3692 Physical Education Junior Field Experience: Adult Fitness (1)

Students spend one-half day a week (45 hours) per semester in an appropriate fitness setting. Application of content learned in PED 3610 with an emphasis on observational techniques, the teaching/learning process, and program organization and management. On-site observation by college supervisors. (SP)

Corequisite: PED 3612

PED 4600 Adapted Physical Education (3)

This course will provide the student with a comprehensive background in identifying and developing physical education programs for students with special needs. The body of knowledge and clinical experience will prepare informed, dynamic professionals in the area of physical education for special populations. (E, SI)

PED 4605 Assessment in Physical Education (3)

Approaches to testing and evaluation, basic statistical concepts, the construction of skills and knowledge tests, and evaluation in the cognitive, psychomotor and affective domains are examined. (E, SI, SII)

Required of Physical Education Majors.

PED 4610 Introduction to Organization, Administration and Supervision of Physical Education (3)

The total physical education program examined in both urban and suburban schools in terms of organization, administration and supervision. (E)

Prerequisite: PED 3610 or 3611

Corequisite: PED 4690.

PED 4615 Organization and Administration of Intramural Sports (3)

History, present status, objective of intramural movement; organization and affiliation with other departments; units of competition from elementary to college level; program of activities; group, team, and individual schedule making and scoring plans; rules, regulations, awards; special administrative problems.

PED 4620 Introduction to Administration of Interscholastic Athletics (3)

Basic organization and administrative procedures that are necessary for an interscholastic athletic program to function.

PED 4625 Organization and Administration of Adult Fitness Programs (3)

The total adult fitness program examined in the corporate and commercial structures in terms of organization, administration and supervision. (SP)

Prerequisites: 2 required courses in the Adult Fitness Option, PED 3510 and PED 3611.

PED 4627 Internship in Adult Fitness in Business and Industry (3)

Practical field experience applying techniques to adult fitness in a business and/or industry setting, consisting of 200 hours internship and a weekly seminar to discuss the working experience. (SP, SI)

Prerequisite: MGS 2030, PED 2520, PED 3510, HED 3600, HED 4231, PED 4625, PED 4626, PED 4628, or permission of Adult Fitness Coordinator.

PED 4699 Student Teaching (9)
 A full semester, full-day experience in a public school setting: the first half at the elementary level and the second half at the secondary level. Students are guided by a cooperating teacher and a college supervisor. Three on-campus student teaching seminars are required.
 Prerequisites: Bio 2402, Educ 3000, Educ 3401, Educ 4000, ID 1225, PED 1500, PED 2500, PED 2800, PED 3505, or PED 3510, PED 3610, PED 3611, PED 3690, PSY 1200, 10 semester hours of activities, completion of 90 hours, 2.75 cum, 65 hour group work experience relating to career choice, physical examination, satisfactory completion of Composition, Mathematics, and Speech courses, Speech-Screening Test, and Admission-to-Major by department. In addition, successful completion of the Praxis Exam (20856) must be exhibited. (E)
For those seeking dual certification of Health & Physical Education, additional prerequisites include 9 semester hours from courses in Health cluster (HED 3400, HED 3600, HED 3635, HED 4333). Corequisite: PED 4610

SOCIAL AND PHILOSOPHICAL FOUNDATIONS

PED 2800 Physical Education: PreProfessional Field Experience (3)
 An analytical and observational study of physical education in a multicultural society. Approximately one-third of the course involves supervised field-based experiences. (E, SI, SII)
Writing Emphasis course

PED 3620 Designing Children's Games for Physical Education and Youth Sport Settings (3)
 Principles of customizing games according to children's individual differences so that all children can become more skillful games players; for physical educators and coaches.

PED 4800 The Meaning of Human Movement (3)
 The nature and forms of individual and collective movement. The interrelationships of the physical, intellectual and psychological aspects of movements as it varies with the occurrence. Classroom study and a variety of selected movement experiences. Of particular value to students concerned with movement behavior, both as individuals and as human beings responsible for modifying the behavior of others.

PED 4805 Sports and International Relations (3)
 Exploration and analysis of social and political forces in sports and physical education on the national and international level.

PED 4820 Physical Education and Education as Observed in Other Countries (3)
 Travel to other countries to visit selected educational institutions examining teaching methodology, curriculum, rehabilitation programs and attitudes in education at large, physical education in particular.

PED 4830 Women in Sports (3)
 Historical, legislative, biophysical, and socio psychological dimensions of women and sport with a focus on American women in sports.
 Independent Study

PED 4901 Independent Study in Physical Education (1)
 Supervised research study of a problem in physical education. (E, SI, SII)
Prerequisites: Junior or Senior Physical Education major status and department chairperson's permission.

PED 4902 Independent Study in Physical Education (2)
 Supervised research study, of some depth, into a selected problem in physical education.
Prerequisites: Junior or Senior Physical Education major status, and department chairperson's permission.

PED 4903 (4900) Independent Study in Physical Education (3)
 Supervised in-depth research study of a selected problem in physical education. (E, SI, SII)
Prerequisites: Senior physical education major and department chairperson's permission.

Recreation Administration

Coordinator: Dr. Frances Stavola-Daly, CTRS, CPRP
Hennings Hall 434, (908) 737-3820, 3812

The B.A. in Recreation Administration affords students the opportunity to pursue a career as a recreation professional in therapeutic recreation, community, commercial, and hospitality and sports settings. Students in this program may select one of three options: Commercial, Community or Therapeutic Recreation. Graduates work with such job titles as Recreation Therapist, Activities Director, Recreation Director, Coordinator, Supervisor, and Superintendent of Recreation and Parks and Sports or Hospitality Facility Manager. Positions in Therapeutic Recreation are commonly found in physical rehabilitation departments, pediatric hospitals, nursing homes, assisted living and psychiatric facilities, treatment centers, adult day care centers and home based services. Community recreation positions may be found in municipal and county and federal government agencies, nonprofit youth serving organizations, senior centers and retirement communities. Commercial Recreation positions may be found in theme parks, resorts, golf courses, event management organizations and sports facilities. This program prepares majors for certification as a Certified Therapeutic Recreation Specialist (CTRS), Certified Park and Recreation Professional (CPRP), and/or Certified New Jersey Recreation Administrator or Supervisor. The Therapeutic Recreation Option also includes pre-requisite courses that are required for a student to apply for Graduate programs in Occupational Therapy. Students must have a 2.5 GPA to be accepted into and graduate from the Recreation Administration program.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-education/collegeprogram-mission-and-slos>

B.A. DEGREE RECREATION ADMINISTRATION 124 S.H.

COMMERCIAL RECREATION OPTION

GENERAL EDUCATION 47/48

FOUNDATION REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1000; 1010; 1016; 1030 (Choose one) 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2022 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

Select two courses (2) from different areas:

Fine Arts or Art History 3

Foreign Languages 3
Music or Theatre 3
Philosophy or Religion 3
Social and Behavioral Sciences 9
HIST 1062 Worlds of History 3
PSY 1000 General Psychology 3
SOC 1000 Social Life and Society 3

Science & Mathematics 10/11

MATH 1010; 1016; 1030; 1054 or

CPS 1031, 1032; 1231 3

Science Course Lab 4

Science Course Non Lab or Lab 3/4

Health, Recreation and Physical Ed 3

Choose one:

ID 1225 Issues/Values of Contemporary Health 3

GE CAPSTONE COURSE 3

REC 4903 Senior Seminar and Problem Solving 3

ADDITIONAL REQUIRED COURSES 6

MGS 2030 Principles of Management 3

MKT 2500 Basic Marketing 3

ACADEMIC MAJOR 51

General Recreation Requirements 18

REC 1200 Computers in Recreation 3

REC 2901 Foundations of American Recreation 3

REC 2910 Program Organization & Facility Design 3

REC 3903 Recreation Adm., Supervision, & Management 3

REC 4900 Recreation Leadership Skills 3

REC 3300 Recreation for Special Populations 3

Activity Requirements 6

REC 3900 Planning and Organizing Activities 3

REC 4330 Recreation and Stress Mgmt 3

Commercial Recreation Sequence 15

REC 3500 Commercial Recreation 3

REC 4700 Recreation in Resorts & Hotels 3

MGS 3030 Human Resource Management 3

REC 3640 Fund Raising in Parks and Recreation 3

One Additional Course as Approved by Advisor

COMM 3660 Public Relations 3

COMM 4208 Events Planning and Management 3

MGS 3010 Intro to Sports Management 3

Field Work Requirements 12

REC 3910 In-Semester Practicum (145 hours) 3

REC 4510 Internship (480 hours) 9

FREE ELECTIVES 19/20

50% of Free Electives must be taken at the 3000-4000 level

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

THERAPEUTIC RECREATION OPTION

GENERAL EDUCATION 48

FOUNDATION REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1000; 1010; 1016; 1030 (Choose one) 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2022 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS:

Humanities 9

*ENG 2403 World Literature 3

Select two courses (2) from different areas:

Fine Arts or Art History 3

Foreign Languages 3

Music or Theatre 3

Philosophy or Religion 3

Interdisciplinary 3

Social and Behavioral Sciences 9

HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

Soc 1000 Intro to Sociology 3

Science and Math 11

MATH 1010; 1016; 1030; 1054 or CPS 1031, 1032; 1231 3

BIO 1000 Biology 4

BIO 2402 Human Phys & Anatomy 4

Health Education 3

ID 1225 Issues/Values of Contemporary Health 3

GE CAPSTONE COURSE 3

REC 4903 Senior Seminar and Problem Solving 3

ADDITIONAL REQUIRED COURSES 9

PSY 3110 Life Span 3

PED 3505 Kinesiology 3

PSY 3540 Abnormal Psy 3

ACADEMIC MAJOR 51

GENERAL RECREATION REQUIREMENTS 18

REC 1200 Computers in Recreation 3

REC 2901 Foundations of American Recreation 3

REC 2910 Program Organization & Facility Design 3

REC 3903 Recreation Adm., Supervision, & Management 3

REC 4900 Recreation Leadership Skills 3

REC	3300	Recreation for Special Populations	3
<i>Activity Requirements</i>			6
REC	3900	Planning and Organizing Activities	3
REC	4330	Recreation and Stress Mgmt	3
PED	1022, 1107, 1023	(1 credit each)	3
<i>Therapeutic Recreation Sequence</i>			15
REC	3310	Principles/Practices of Therapeutic Recreation	3
REC	4310	Process and Techniques in TR	3
Choose 3:			
REC	3320	Therapeutic Recreation in Long Term Care	3
REC	3730	Therapeutic Recreation Socially/Emotionally Disabled	3
REC	3740	Therapeutic Recreation for Individuals with Developmental Disabilities	3
REC	3750	Therapeutic Recreation for Individuals with Physical Disabilities	3
<i>Field Experience Requirements</i>			12
REC	3910	In-Semester Practicum (145 hours)	3
REC	4510	Internship (560 hours)	9

FREE ELECTIVES 16

50% of Free Electives must be taken at the 3000-4000 level)

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

COMMUNITY RECREATION OPTION

GENERAL EDUCATION 47/48

FOUNDATION REQUIREMENTS 13

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030	College Composition	3
MATH	1000; 1010; 1016; 1030	(Choose one)	3
COMM	1402	Speech Communication as Critical Citizenship	3
GE	2022	Research & Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

<i>Humanities</i>			9
ENG	403	World Literature	3
Select two (2) courses from different areas:			
Fine Arts or Art History			3
Foreign Languages			3
Music or Theatre			3
Philosophy or Religion			3
Social and Behavioral Sciences:			9

HIST	1062	Worlds of History	3
PSY	1000	General Psychology	3
SOC	1000	Intro to Sociology	3
<i>Science & Mathematics</i>			10/11
MATH	1010; 1016; 1030; 1054 or CPS	1031, 1032; 1231	3
Science Course Lab			4
Science Course Non Lab or Lab			3/4
<i>Health, Recreation and Physical Education</i>			3
ID	1225	Issues/Values of Contemporary Health	3

GE CAPSTONE COURSE 3

REC	4903	Senior Seminar and Problem Solving	3
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ADDITIONAL REQUIRED COURSES 6

PS	2100	American Government	3
PSY	3630	Social Psychology	3

ACADEMIC MAJOR 51

<i>General Recreation Requirements</i>			18
REC	1200	Computers in Recreation	3
REC	2901	Foundations of American Recreation	3
REC	2910	Program Organization & Facility Design	3
REC	3903	Recreation Adm., Supervision, & Management	3
REC	4900	Recreation Leadership Skills	3
REC	3300	Recreation for Special Populations	3
<i>Activity Requirements</i>			6
REC	3900	Planning and Organizing Activities	3
REC	4330	Recreation and Stress Management	3
PED	4600	Adapted Physical Education	3
PED	1022, 1023, 1107	(1 credit each)	3
<i>Community Recreation Sequence</i>			15
REC	3640	Fundraising in Recreation Agencies	3
REC	3810	Recreation and the Environment	3
PA	2000	Intro to Public Administration	3
MGS	3030	Human Resource Management	3

Select one (1):

PED	3360	Perspective on Children & Sport	3
ID	4600	Intro to Non Profit Management	3
HED	3635	Intro to Public Health	3
COMM	4208	Event Planning and Management	3
COMM	3660	Public Relations	3
<i>Field Work Requirements</i>			12
REC	3910	In-Semester Practicum (145 hours)	3
REC	4510	Internship (480 hours)	9

FREE ELECTIVES 19/20

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

MINOR REQUIRED COURSES 18

REC	2901	Foundations of American Recreation	3
REC	2910	Program Organization and Facility Design	3
REC	3300	Recreation for Special Populations	3
REC	3900	Planning and Organizing Activities	3
REC	4900	Recreation Leadership Skills	3
PED	3903	Recreation Adm., Supervision & Management	3

RECREATION COURSES

ID 1010 Leisure and Recreation in a Multicultural Society 3

This course examines current trends in the growing areas of discretionary spending, changing lifestyles and leisure pastimes for various social groups. Emphasis will be on the cultural values and motivating forces used in the selection of leisure activities and how leisure can define the national character in a diverse society. General Education option under PERH. (E, WS, SS1, SS2)

REC 1100 Introduction to the Recreation and Leisure Profession (3)

A survey of recreation/leisure services, utilizing field visits to municipal, community, outdoor, industrial, therapeutic, armed forces, correctional, and commercial recreation sites.

REC 1200 Computer Programs in Recreation (3)

Survey and explore the most recent and widely-used recreational computer programs in the recreation and leisure industry. (E)

REC 2901 Foundations of American Recreation (3)

The chronological development of recreation in America, the various philosophies, service delivery systems and the impact of technology on the recreation movement. (E)

Writing Emphasis course also offered as a distance learning course

REC 2910 Program Organization and Facility Design (3)

An introduction to program planning focusing on program development, design and implementation. The design of accessible public and private recreational facilities is also examined. (FA)

REC 2911 Program Organization and Facility Design Service Learning (1)

REC 2915 Introduction to Horticultural Therapy (1)

This course introduces the use of horticultural therapy as a treatment modality in Therapeutic Recreation. (E)

- REC 2916 The Use of Musical Activities as a Therapeutic Intervention (1)**
The use of music to assist people who have special needs, physically, emotionally, mentally, and socially. Select activities will be utilized for study, and for students to develop fundamental skills in developing this activity program in nursing homes, assisted living facilities, and hospitals (E)
- REC 2917 Introduction to Movement Therapy (1)**
This course is intended to orient students towards an understanding of the field of dance movement therapy. It is an introduction to the benefits of movement therapy in integrating physical, cognitive, social and emotional energies. Experiential participation in movement therapy will be included with analysis of underlying principles of the dynamics of a movement therapy session and an understanding of populations served. (SP)
- REC 3300 Recreation for Special Populations (3)**
The role of recreation and therapeutic recreation in supporting healthy lifestyles and inclusion for diverse populations with disabilities that participate in recreation services in community, commercial and therapeutic recreation programs. (E)
- REC 3310 Principles and Practices of Therapeutic Recreation (3)**
Introduction to the field of therapeutic recreation including theoretical foundations for practice and service delivery, history of the profession, practice models, the components of the therapeutic recreation process, appropriate and successful techniques for delivery of therapeutic recreation programs. (E)
Co or Prerequisite Rec 3300.
- REC 3320 Therapeutic Recreation in Long Term Care (3)**
Study of the importance of therapeutic recreation in long term care settings and specialized facilities for older adults including concepts and techniques related to the aging process, activity interventions and assessment and documentation. (FA)
Prerequisite: REC 3310 or permission of instructor.
- REC 3500 Commercial Recreation and Tourism (3)**
Analysis of the commercial recreation and tourism industry. Includes a study of participant profiles, types of commercial recreation, sports and tourist enterprises/services, marketing strategies, and national tourism studies. Employment opportunities, trends and issues highlighted. Field visits are required. Also offered as a distance learning course. (E)
- REC 3510 Cultural Tourism: Traditions and Pastimes (3)**
Study of the culture, traditions and leisure pastimes in, and among, world civilizations, focusing on dances, music, and customs of such countries, continents and regions as Japan, China, Central Asia, Africa, Eastern Europe, the Middle East South Africa, and Indonesia. (E, SS2)
- REC 3640 Fundraising in Recreation Agencies (3)**
Introduction to the various types of financing methods used by professional in park and recreation agencies. Special emphasis on fundraising, grantsmanship, fees and charges. (SP)
Prerequisite: REC 2910 or permission of instructor.
- REC 3700 Campus Recreation Programs in Colleges and Universities (3)**
The philosophical base and practical application of concepts related to the organization and administration of campus recreation (intramural sports, sports clubs, facilities, and open recreation programs at the college/university level). (SP)
- REC 3730 Therapeutic Recreation with the Socially and Emotionally Disabled (3)**
Study of applicable techniques and treatment concepts of therapeutic recreation for persons with social and mental disabilities in both community and institutional settings. (S)
- REC 3740 Therapeutic Recreation for Individuals with Developmental Disabilities (3)**
Study of the role of therapeutic recreation with individuals with developmental disabilities throughout their life span. Special emphasis on the development of therapeutic techniques, leisure education, community re-integration programs and inclusion. (FA)
- REC 3750 Therapeutic Recreation for Individuals with Physical Disabilities (3)**
A study of therapeutic recreation services for persons with physical disabilities including acquired and congenital conditions such as (but not limited to), spinal cord injury, multiple sclerosis, cerebrovascular accident, and orthopedic impairment(s). (SP)
- REC 3810 Recreation and the Environment (3)**
An exploration of the natural environmental factors that have significant impact on recreation/leisure activities and agencies. (E)
- REC 3900 Planning and Organizing Activities (3)**
The system of arrangement and program of action which includes the development of leadership and communication skills, an understanding of group dynamics, and a repertoire of activities. Designed to prepare students for recreation assignments in business, industry, and community organizations. (E)
- REC 3901 Planning and Organizing Activities Service Learning (1)**
- REC 3903 Recreation Administration, Supervision and Management (3)**
Administrative patterns and management in the various recreational organizations including facilities, financing, equipment and personnel involved in programs and the relationships between organizations. (SP)
Writing Emphasis Course
- REC 3910 In-Semester Practicum (3)**
A course designed to provide every recreation major, in the junior year, with an opportunity for intensive exploration, study and experience in an operating agency in a chosen field. A minimum of 145 hours of supervised experience is required. (E, WS, SS1, SS2)
Prerequisites: Fifteen credits in Recreation courses, a 2.5 grade point average, and permission. TR students must have completed REC 3310. Limited to Recreation majors.
- REC 4310 Process and Techniques in Therapeutic Recreation (3)**
Process and techniques in the clinical application of Therapeutic Recreation including specific facilitation and communication techniques, assessment, documentation and evaluation are examined. (E)
Prerequisites: REC 3310 or permission of instructor.
- REC 4330 Recreation/Leisure and Stress Management (3)**
Principles and methods utilized in assessing an individual's skills, values, and interests that influence leisure choices, participation in recreation activities (leisure counseling), and their relationship to stress reduction. (E, WS, SS1, SS2)
- REC 4500 Internship in Recreation (3)**
Practical application of recreation skills at a cooperating recreation or leisure services agency, nonprofit management and sports management field. A minimum of 360 hours of supervised experience is required.
Prerequisite: Limited to Recreation majors and non-majors. Approved petition required from Program Coordinator in Recreation Administration and a 2.5 grade point average.
- REC 4510 Internship in Recreation Administration (9)**
Recreation majors community and commercial recreation option must complete 480 and therapeutic recreation option students must complete 560 hours of field work demonstrating practical application of knowledge and skills at a cooperating recreation/leisure service agency or therapeutic recreation program or setting. (E, SS1, SS2)
Prerequisites: For Recreation majors only. Completion of all required Recreation courses, permission of the Program Coordinator, successful completion of the Practicum (REC 3910), and a 2.5 grade point average.
- REC 4600 Independent Study (3)**
Individualized course that focuses on a specific area of study in Recreation, Therapeutic Recreation and/or Leisure. (E, WS, SS1, SS2)
*Prerequisites: a minimum of 24 credits in the Recreation Major
Permission of Program Coordinator required*
- REC 4700 Recreation in Hotels and Resorts (3)**
Recreation administration services, practices, and problem areas concerning quality leisure activities and experiences in commercial enterprises. Characteristics of successful facilities, their patterns of recreation programming and use of equipment and supplies will be examined. A consideration of growth patterns and trends will be emphasized. (FA)
Prerequisites: REC 2901, REC 3500 and/or REC 3903 or special permission of the instructor.

REC 4900 Recreation Leadership Skills (3)

Principles, procedures and techniques for effective leadership, problem solving and group dynamics in a variety of recreational organizations and settings. (E)

Prerequisites: REC 2901

**REC 4903 Senior Seminar-
Problem Solving (3)**

Current problems, trends and developments in commercial, community and therapeutic recreation are studied. Transition from student to professional is examined. (E)

Prerequisites: Must have completed a minimum of 30 credits in the major and have a 2.5 GPA.

School of Special Education and Literacy

TEACHER OF STUDENTS WITH DISABILITIES

Executive Director: Dr. Joan Kastner
J205B, (908) 737-3942

Coordinator: Dr. Barbara Lee

Hennings Hall 317, (908) 737-3860

Candidates in the 'Teacher of Students with Disabilities' program will prepare to be dually certified in one of the eight options: P-3 (preschool - grade 3); K-6 (Kindergarten - grade 6); K-6 & K-6, 5-8 (Kindergarten - grade 6 & 5-8 middle school); and dual certification in special education and P-12 History, English, Mathematics, Earth Science and Biology. Admission to the university does not guarantee admission into the College of Education. Candidates must take and earn the New Jersey Qualifying score on all the three parts of **Praxis I** (Core Academic Skills Test (Reading, Writing and Math) and have a minimum GPA of 3.0 for admission to the program. The admission requirements also include candidates achieving a B- or better in ENG 1030, MATH 1000, COMM 1402 (Speech Communication), ID 2052 (Human Exceptionality), SPED 2120 (Introductory Field), SPED 2200 (Multicultural Learner in Diverse Settings), and filing an application with the department. Candidates must also apply to their academic major department for admission to the major.

Teacher certification requirements include the satisfactory completion of field experiences in the sophomore, junior and senior years. For Elementary Education candidates, the Elementary Education Multiple Subject **Praxis II** #5001 must be passed. For Middle School candidates, the Elementary Education Multiple Subject **Praxis II** exam is required and must be passed along with the Middle School Subject Specialty Area **Praxis II** #5001 prior to enrolling in the senior field experience. P-3 candidates must take and pass the Early Childhood Content Knowledge **Praxis II** prior to the senior field experience. Those pursuing P-12 certification must take and pass the appropriate P-12 Subject Area **Praxis II** prior to senior field. A grade of C or better is required in all Education and Interdisciplinary courses (except where B- or better is specified). Due to the dual nature of the certification, candidates will be required to complete their PreProfessional placement in a general education setting and their Professional placement in a special education setting.

Students may be interested in pursuing positions in public and private school teaching, extended employment settings, group homes, programs for adults with disabilities, and with private agencies serving the developmentally disabled.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-education/collegeprogram-mission-and-slos>

B.A. DEGREE SPECIAL EDUCATION

MAJOR: TEACHER OF STUDENTS WITH DISABILITIES

OPTION: P-3

GENERAL EDUCATION 65-66

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean** 1

OR

GE 3000 Transfer Transitions** 1

ENG 1030 Composition 3

MATH 1000 College Algebra 3

COMM 1402 Speech Communication 3

GE 2022 Research & Technology 3

****University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)**

OR GE 3000 (transfers entering with 30 credits or more)

DISCIPLINARY & INTERDISCIPLINARY REQUIREMENTS 31-32

***Humanities (9 credits from three areas)**

ENG 2403 World Literature 3

Performing Arts
(Choose two of the following):

Fine Art 1000 or 1100 or 1230 3

Music 1050 or 1517 3

Theatre 1100 3

***Social/Behavioral Sciences (9 credits from 3 areas)**

HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

SOC 1000 Introduction to Sociology 3

***Science & Mathematics 10-11**

MATH 1010;1016;1030;1054 3

BIO 1000 4

Select One:

Astronomy, Biology, Chemistry, Earth Science, Geology, Meteorology, or Physics 3 or 4

Health and Physical Education 3

ID 1225 Issues of Contemporary Health 3

ADDITIONAL REQUIREMENTS 21

PSY 3310 Psychology of Learning 3

PSY 2100 Child Psychology 3

ID 2052 Human Exceptionality 3

**ID 2950 Child and Technology 3

ID 3163 Building Inclusive Environments Through Positive Behavioral Supports 3

**ID 3210 Working with Infants, Toddlers, and Young Children in Diverse Settings 3

**ID 4240 Understanding Family and Community Partnerships in Education 3

****P3 approved courses = 13-15 credits**

ACADEMIC MAJOR/CONTENT AREA (MINIMUM 30 CREDITS)

A minimum of 30 S.H. in a liberal arts, math or science major as outlined in the Kean University Catalog. See academic advisor in that department for requirements.

PROFESSIONAL EDUCATION 35

Sophomore Level

SPED 2120 Introductory Field Experience In Special Education 3

SPED 2200 The Multicultural Learner in Diverse Settings 3

Junior Level

SPED 3000 Principles and Practices for the Contemporary Educator (WE) 3

SPED 3001 Preprofessional Field Experience for Educators Across Settings 2

EDUC 3400 Language Arts/Reading in the Preschool and Elementary Curriculum 3

**EC 3250 Perspectives on Early Childhood Practice 3

Senior Level

**EC 4260 Supporting Emergent Literacy at Home and at School 3

**EC 4300 Teaching and Learning in Early Childhood Education II 3

SPED 4135 Special Education Student Teaching 9

CAPSTONE

SPED 4200 Educator in the Diversified Classroom 3
(SPED 4135 & SPED 4200 must be taken concurrently)

TOTAL 130 -131

B.A. DEGREE SPECIAL EDUCATION

MAJOR: TEACHER OF STUDENTS WITH DISABILITIES

OPTION: K-6

GENERAL EDUCATION 66

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean** 1

OR

GE 3000 Transfer Transitions** 1

ENG 1030 Composition 3

MATH 1000 College Algebra 3

COMM 1402 Speech Communication 3

GE 2022 Research & Technology 3

****University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)**

OR GE 3000 (transfers entering with 30 credits or more)

DISCIPLINARY & INTERDISCIPLINARY REQUIREMENTS 32

<i>*Humanities</i>			9
ENG	2403	World Literature	3
AH	1700	Art History	3
Music 1050 or 1000 Fundamentals or Survey			3
<i>*Social/Behavioral Sciences</i>			9
HIST	1062	Worlds of History	3
PSY	1000	General Psychology	3
GEOG	2010	World Geography	3
<i>*Science & Mathematics</i>			11
MATH	1010;1016;1030;1054		3
BIO	1000		4

Select One:

Astronomy, Biology, Chemistry, Earth Science, Geology, Meteorology, or Physics			4
Health and Physical Education			3
ID	1225	Issues of Contemporary Health	3

ADDITIONAL REQUIREMENTS 21

PSY	3310	Psychology of Learning	3
PSY	2100	Child Psychology	3
ID	2052	Human Exceptionality	3
ID	3051	Computer Technology in Today's Inclusive Society	3
ID	3162	Families As Collaborators in the Classroom, School, and Community	3
ID	3163	Building Inclusive Environments Through Positive Behavioral Supports	3
HIST	2304	U.S. History 1877 to Present	3

ACADEMIC MAJOR/CONTENT AREA (MINIMUM 30 CREDITS)

A minimum of 30 S.H. in a liberal arts, math or science major as outlined in the Kean University Catalog. See academic advisor in that department for requirements.

PROFESSIONAL EDUCATION 35

Sophomore Level

SPED	2120	Introductory Field Experience in Special Education	3
SPED	2200	The Multicultural Learner in Diverse Settings	3

Junior Level

SPED	3000	Principles and Practices for the Contemporary Educator (WE)	3
SPED	3001	Preprofessional Field Experience for Educators Across Settings	2
EMSE	3123	Math & Science in Elementary Education	3
EDUC	3400	Language Arts/Reading in the Preschool and Elementary Curriculum	3
EMSE	3140	Social Studies and Contemporary Issues	3

Senior Level

SPED	4000	Styles of Learning and Promoting Literacy	3
SPED	4135	Special Education Student Teaching	9

CAPSTONE

SPED	4200	Educator in the Diversified Classroom (SPED 4135 & SPED 4200 must be taken concurrently)	3
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TOTAL 131**B.A. DEGREE SPECIAL EDUCATION****MAJOR: TEACHER OF STUDENTS WITH DISABILITIES****OPTION: K-6/5-8****GENERAL EDUCATION 66****FOUNDATIONS REQUIREMENTS 13**

GE	1000	Transition to Kean**	1
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OR

GE	3000	Transfer Transitions**	1
ENG	1030	Composition	3
MATH	1000	College Algebra	3
COMM	1402	Speech Communication	3
GE	2022	Research & Technology	3

***University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more)*

DISCIPLINARY & INTERDISCIPLINARY REQUIREMENTS 32**Humanities (9 credits from three areas)*

ENG	2403	World Literature	3
AH	1700	Art History	3
Music 1050 (Recommended) or 1000 Fundamentals or Survey			3

**Social/Behavioral Sciences (9 credits from 3 areas)*

HIST	1062	Worlds of History	3
PSY	1000	General Psychology	3
GEOG	2010	World Geography	3

**Science & Mathematics*

MATH	1010;1016;1030;1054		3
BIO	1000		4

Select One:

Astronomy, Biology, Chemistry, Earth Science, Geology, Meteorology, or Physics			4
Health and Physical Education			3
ID	1225	Issues of Contemporary Health	3

ADDITIONAL REQUIREMENTS 21

PSY	2110	Psychology of Adolescence	3
PSY	3310	Psychology of Learning	3
PSY	2100	Child Psychology	3
ID	2052	Human Exceptionality	3

ID	3051	Computer Technology in Today's Inclusive Society	3
ID	3163	Building Inclusive Environments Through Positive Behavioral Supports	3
HIST	2304	U.S. History 1877 to Present	3

ACADEMIC MAJOR – FULL MAJOR 30 CREDITS OR MORE) K-6,5-8 CANDIDATES MUST COMPLETE A FULL ACADEMIC MAJOR

A minimum of 30 S.H. in a liberal arts, math or science major as outlined in the Kean University Catalog. See academic advisor in that department for requirements. The 5-8 Endorsement is available to those whose academic major is: English, Mathematics, Chemistry/Physics, Biology, Earth Science, History or Spanish (students who wish to pursue the P-12 certificate in Spanish must take EMSE 3250). To be eligible for the elementary school with subject matter with specialization endorsement, the candidate must pass the Elementary Content Knowledge Praxis and the Praxis in the area of specialization.

PROFESSIONAL EDUCATION 35

Sophomore Level

SPED	2120	Introductory Field Experience in Special Education	3
SPED	2200	The Multicultural Learner in Diverse Settings	3

Junior Level

SPED	3000	Principles and Practices for the Contemporary Educator (WE)	3
SPED	3001	Preprofessional Field Experience for Educators Across Settings	2

EMSE	3123	Math & Science in Elementary Education	3
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EDUC	3400	Language Arts/Reading in the Preschool and Elementary Curriculum	3
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EMSE	3140	Social Studies and Contemporary Issues	3
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EMSE	3300	Curriculum & Philosophy in Middle School	3
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Senior Level

SPED	4135	Special Education Student Teaching	9
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CAPSTONE

SPED	4200	Educator in the Diversified Classroom (SPED 4135 & SPED 4200 must be taken concurrently)	3
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TOTAL 131

SEE MAJOR PROGRAM LISTINGS FOR THE COURSE REQUIREMENTS OF THE FOLLOWING:

B.A. DEGREE ENGLISH

MAJOR: ENGLISH/TEACHER OF STUDENTS WITH DISABILITIES

OPTION: DUAL CERTIFICATION FOR TEACHER OF STUDENTS WITH DISABILITIES AND P-12 ENGLISH

B.A. DEGREE HISTORY

MAJOR: HISTORY/TEACHER OF STUDENTS WITH DISABILITIES

OPTION: DUAL CERTIFICATION FOR TEACHER OF STUDENTS WITH DISABILITIES AND P-12 HISTORY

B.A. DEGREE MATHEMATICAL SCIENCES

MAJOR: MATH/TEACHER OF STUDENTS WITH DISABILITIES

OPTION: DUAL CERTIFICATION FOR TEACHER OF STUDENTS WITH DISABILITIES AND P-12 MATH

B.A. DEGREE EARTH SCIENCE

MAJOR: EARTH SCIENCE/TEACHER OF STUDENTS WITH DISABILITIES

OPTION: DUAL CERTIFICATION FOR TEACHER OF STUDENTS WITH DISABILITIES AND P-12 EARTH SCIENCE

B.A. DEGREE BIOLOGY

MAJOR: BIOLOGY/TEACHER OF STUDENTS WITH DISABILITIES

OPTION: DUAL CERTIFICATION FOR TEACHER OF STUDENTS WITH DISABILITIES AND P-12 BIOLOGY

SPECIAL EDUCATION COURSES

INTERDISCIPLINARY COURSES

(The following courses are found under Interdisciplinary Courses (See Index).

GENERAL AND INTRODUCTORY

ID 2052 Human Exceptionality (3)
This course provides an overview of the historical, legal, etiology, and needs of individuals with disabilities. (E,SSI)

ID 2955 Disabled Persons in American Society (3)
Explores issues related to adaptation and modification for those with disabilities in American Society. Settings such as the school, home, and workplace will be examined. (E, SS1)

ID 3051 Computer Technology in Today's Inclusive Society (3)
Information is presented relevant to basic computer/technology operations and concepts and adaptive devices and software used in the inclusive classroom. (E,SSI)
Prerequisite: ID 2052

ID 3162 Families As Collaborators in the Classroom, School, and Community (3)
Group dynamics theory and practice will be examined to promote collaboration and consultation between families and professionals. Transitioning communication strategies and collaborative practices will be discussed. (E)
Prerequisite: ID 2052

ID 3163 Building Inclusive Environments Through Positive Behavioral Supports (3)
This course explores effective management practices for inclusive classrooms. Behavioral theories, functional behavioral assessment, and development of positive behavioral intervention plans will be presented. (E)
Prerequisites: ID 2052, Acceptance into TSD Program
Corequisites: SPED 3000, SPED 3001

PROFESSIONAL EDUCATION TEACHER OF STUDENTS WITH DISABILITIES

SPED 2120 Introductory Field Experience in Special Education (3)
This field-based course will provide students with information about organizational structures, professional behaviors and ethics, and service delivery models across the continuum of educational services recommended for the education of students. (E)
Prerequisite: 3.0 Cumulative GPA, ID 2052 and successful completion of 40 college credits
Corequisite: SPED 2200

SPED 2200 The Multicultural Learner in Diverse Settings (3)
Characteristics of the diverse learners in multicultural settings will be emphasized, along with strategies to meet the needs of bilingual and minority populations. Culture and climate will be explored in urban settings. (E)

SPED 3000 Principles and Practices for the Contemporary Educator
Students will explore education practices relevant to teaching students with and without special needs in all settings to include developing lesson plan components. Students will complete a mini Teacher Work Sample. (E)
Prerequisites: ID 2052, SPED 2120, SPED 2200, Acceptance into the TSD Program
Co-requisite: SPED 3001, ID 3163

SPED 3001 PreProfessional Field Experience for Educators
Fifteen days (90 hours) spent observing and participating in general education classrooms providing candidates the opportunity to apply information learned in SPED 3000. (E)
Prerequisite: Acceptance into the TSD Program
Co-requisite: SPED 3000, ID 3163, (SPED 4000 also for K-6 majors)

SPED 4000 Styles of Learning and Promoting Literacy
This course will examine the various theories of learning and literacy for inclusive classrooms. Specific strategies, models, and assessment practices will be explored. (FA)
For K-6 majors only
Co-requisites: SPED 3000, SPED 3001, ID 3163

SPED 4200 The Professional Practitioner in New Jersey's Special Education System
Students will develop critical thinking skills by comparing, contracting, and synthesizing New Jersey's current trends/issues in Special Education set against national education trends. Student will examine New Jersey's social, legal, and political trends in special education to the present. Students will analyze, critique, and reflect on their professional development within the Special Education system. Students will present a Teacher Work Sample. (E)
Prerequisite: All major coursework in Academic Sequence
Co-requisite: SPED 4135

SPED 4135 Professional Field Experience for Educators across Settings
Candidates will teach, full-time, during an entire semester spending fifty percent of the semester in a special education setting and fifty percent of the semester in a general education setting. (E)
Prerequisites: SPED 3001 and all required EMSE and EDUC coursework
Corequisite: SPED 4200 (for P-3, K-6, K-6/5-8) or EDUC 4000 (for P-12)

SPECIAL EDUCATION AND LITERACY

COMMUNICATION SCIENCES COURSES

DEVELOPMENTAL COURSES

CS 0409 Basic Reading Skills (NC)
Designed to develop proficiency in reading to meet the curriculum needs of succeeding courses at the college level. The emphasis is on vocabulary development and comprehension skills. (E)

CS 0412 Introduction to Academic Reading (NC)
Designed to develop proficiency in reading across the curriculum with emphasis on the reading demands of a paired course. Demonstration of college level performance. There is a reading laboratory requirement and a computer assisted instruction fee. (E)
Prerequisite: CS 0409 and/or competency level.

COLLEGE LEVEL READING AND STUDY SKILLS

CS 1501 College Reading and Study Skills (3)
Reading and learning skills are programmed to increase efficiency in these areas. Skills include speed of comprehension, areas of comprehension, vocabulary and the study skills of concentration, note-taking, time-scheduling and test-organization. Recommended as an elective for those students who seek a strong development program in learning. (E)

CS 2500 Speed Reading (3)

Designed for students who read well but would like to increase speed and efficiency. Speed reading techniques will be demonstrated and applied to several kinds of reading material.

CS 3450 Analytic and Critical Reading (3)

Designed for the student who possesses grade appropriate vocabulary and comprehension skills and is interested in developing higher competencies in reading. Course does not meet 6 hour state certification reading requirement.

Prerequisite: Course limited to students who are not enrolled in developmental course.

READING EDUCATION

All of the following courses in reading education include a study of appropriate trends and techniques for teaching students from a variety of cultural backgrounds.

CS 4400 Advanced Reading Techniques: Elementary Level (3)

Knowledge about the total field of reading is broadened. Assessment of reading progress and reading in the content areas are studied. Development of specific skills in multicultural settings is emphasized.

CS 4490 Reading in Society (3)

Perspectives on the varied functions of reading in society. An exploration of the historical, political, economic and pedagogical aspects of literacy. Does not fulfill reading requirements for state certification.

CS 4497, 4498, 4499 Independent Study in Reading (1, 2 or 3)

Opportunity for students of advanced ability to pursue in a concentrated but informal manner a specific area of study in reading education not available through current course offerings.

Prerequisites: Approval of coordinator and faculty member.

TRAINING AND DEVELOPMENT COURSES

CS 3803 Educational Psychology of the Adult Learner (3)

This course examines the physical, social, psychological and educational variables that affect adult learners; included are applications of assessment techniques for adults, theories of learning and motivation, and a survey of training programs for adults. (May not be used for teacher certification programs).

Prerequisite: PSY 1000.

CS 4901 Programs and Strategies in Training and Development (3)

This course offers an in-depth study of model programs in training and development in business, industry and other organizations. Focus is on development, design and presentation of programs. (E)

School for Global Education and Innovation

The School for Global Education and Innovation offers courses that explore culture, civilization, grammar, history, literature, and related areas of study that provide an excellent background for additional language acquisition, advanced professional study, and various careers. The Department has majors in Spanish and in Spanish with a Teacher Certification Option. It also has minors in Spanish, Chinese Studies and French Studies. In addition, the Spanish programs prepare students for postgraduate degrees in the Graduate School of Education: M.A. in Instruction and Curriculum, with two options: 1) World Languages-Spanish, and 2) Classroom Instruction: Teacher Certification, World Languages-Spanish.

In addition to programs in Chinese, French and Spanish, the Department offers language courses in Italian, German, Greek, Hebrew, and Portuguese. Furthermore, it offers courses on literature, film, and civilization and culture that are taught in English. Please note that these courses are designated by the letters FL in this catalog. To support instruction on campus, the Department houses a multimedia language laboratory.

Two sequential courses-six semester hours-of one foreign language (at the introductory or intermediate levels with the second course bearing a higher number than the first) must be successfully completed to receive credit toward the General Education Disciplinary Requirement for Foreign Languages. Acceptable sequences include the following: 1101, 1102; 1102, 2101; 2101, 2102. All substitutions must be approved officially by the School for Global Education and Innovation prior to registration.

For non-General Education purposes, students may take one 3-credit course, without the continuing course, and apply the credits to the following categories: Free Electives, Collateral, Concentration, Minor, Cognates, or Major.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/academics/college-education/collegeprogram-mission-and-slos>

CHINESE

MINOR IN CHINESE STUDIES

For undergraduates and second-baccalaureate students in any major who wish to develop their knowledge of the Chinese language and their general understanding of Chinese and the Asian world, with special focus on literature, civilization, history, culture and economy. The foundation for postgraduate study in Chinese and/or Comparative Literature, as well as in other fields of humanities and social sciences of interest to students wishing to teach Chinese and also to those seeking employment in China-related companies and institutions both in China and abroad.

COURSE REQUIREMENTS 18

LANGUAGE COURSES: SELECT TWO FROM THE FOLLOWING:

CHIN	2101	Intermediate Chinese I	3
CHIN	2102	Intermediate Chinese II	3
CHIN	3101	Advanced Chinese I	3
CHIN	3102	Advanced Chinese II	3
CHIN	3110	Business Chinese	3

CHINESE LITERATURE AND CULTURE COURSES: SELECT THREE FROM THE FOLLOWING:

AS	3116 (FL 3216)	Introduction to Chinese Civilization	3
AS	3211 (FL 3550)	Chinese Literature in Translation I	3
AS	3212 (FL 3551)	Chinese Literature in Translation II	3
AS	3416 (FL 3556)	Chinese Popular Culture and Films	3

BREADTH/COGNATE REQUIREMENTS: SELECT ONE FROM THE FOLLOWING:

HIST	3410	China in the 20th Century	3
AH	3750	Art of China	3

FRENCH

MINOR IN FRENCH STUDIES

For undergraduates and second-baccalaureate students in any major who wish to develop their knowledge of the French language and their general understanding of France and the Francophone world, with special focus on literature, civilization, and culture. This interdisciplinary program provides the foundation for postgraduate study in French and/or Comparative Literature, as well as in any other field in the humanities and social sciences. Moreover, this program should interest students wishing to teach French and those seeking employment in French companies.

COURSE REQUIREMENTS 21

<i>French courses</i>	<i>15 credits</i>
<i>Breadth/cognate courses</i>	<i>3 credits</i>
<i>GE/Capstone course</i>	<i>3 credits</i>

1. Language Courses (select 2, for 6 credits)

FREN	2101	Intermediate French: Grammar, Reading, and Writing
FREN	2102	Intermediate French: Conversation

FREN	3100	Advanced French Composition
FREN	3102	Readings in Francophone Cultures and Civilizations (3)
FREN	3105	Advanced French Conversation
FREN	3120	French Phonetics
FREN	2110, 2115 (or higher)	French Abroad
FREN	3150	French for Business I
FREN	3155	French for Business II
FREN	4100	French Grammar: Morphology and Syntax
FREN	4105	Translation (French>English>French)

2. Literature and Civilization (select 3, for 9 credits)

FREN	3102	Readings in Francophone Cultures and Civilizations
FREN	3130	Contemporary Readings in French
FREN	3200	Masterpieces of French Literature I
FREN	3205	Masterpieces of French Literature II
FREN	3210	French Civilization I
FREN	3215	French Civilization II
FREN	3501	Francophone Culture and Civilization: Haiti
FREN	3605	Studies in French Cinema: Thematics
FREN	4300	French Medieval Literature
FREN	4400	French Dramatic Literature
FREN	4405	French Novel
FREN	4410	French Poetry
FL	3100	Masterpieces of French Literature in Translation I
FL	3105	Masterpieces of French Literature in Translation II
FL	3210	Images of Women in French Films
FL	3215	French Literature on Film
FL	3220	Exploring France
FREN	4710	Independent Study in French Language or Literature

3. Breadth/Cognate Requirements (3 credits)

Select one of the following courses:

AH	3745	Impressionism and Post-Impressionism
AH	3760	Medieval Art
HIST	3239	France and the Revolutionary Tradition since Napoleon
HIST	4242	Twentieth Century France: Imperial Glory to Identity Crisis
PHIL	3402	Existentialism
PS	3210	Early Modern Political Theory: Machiavelli to Rousseau

4. Required Capstone Course (3 credits)

FREN	4700	Seminar in French Studies (capstone course)
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SPANISH

SPANISH PROGRAMS

Coordinator: Dr. Gregory Shepherd

Hutchinson Hall, Room 301 C (908) 737-3950

B. A. DEGREE IN SPANISH

GENERAL EDUCATION 43-45

FOUNDATIONS REQUIREMENTS² 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1010 Foundations of Math 3

COMM 1402 Speech Communication as Critical Citizenship⁵ 3

GE 2023 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

Select two of the following from different areas:

Fine Arts or Art History⁴ 3

Foreign Languages⁵ 3

Music or Theater⁴ 3

Philosophy or Religion 3

Interdisciplinary 3

Social and Behavioral Sciences 9

*HIST 1062 Worlds of History 3

Select two of the following from different areas:

Economics or Geography 3

Political Science 3

Psychology 3

Sociology or Anthropology 3

Science and Mathematics 10-11

CPS 1031 Intro to Computers 3

Select two of the following; one must be a lab science:

Biology 3, 4

Chemistry or Physics 3, 4

Meteorology 3, 4

Astronomy, Earth Science, or Geology 3, 4

Additional Science Course - ID or one from above

Health and Physical Education 2-3

ID 1225 Issues in Contemporary Health 3

ID 1010 Leisure & Recreation in Multicultural 3

OR

Physical Education 2

ADDITIONAL REQUIRED COURSES 6

As determined by major advisor

Two course (six credits) from 1000-2000, in sequence in any other languages offered at Kean University.

OR

Two courses in the College of Humanities & Social Sciences

MAJOR REQUIREMENTS 33

REQUIRED COURSES 6

SPAN 3100 Advanced Spanish Composition 3

SPAN 3105 Advanced Spanish Conversation 3

(SPAN 3105 is not open to native speakers of Spanish. Native speakers must substitute another 3000-4000 level SPAN course for this requirement.)

REQUIRED SURVEY COURSES 6

(Program requires a one-semester civilization survey and a one-semester literature survey.)

Choose one of the following courses:

SPAN 3210 Spanish Civilization I 3

SPAN 3215 Spanish Civilization II 3

SPAN 3225 Latin American Civilization I 3

SPAN 3230 Latin American Civilization II 3

Choose one of the following:

SPAN 3200 History of Spanish Literature I 3

SPAN 3205 History of Spanish Literature II 3

SPAN 3250 History of Latin American Literature I 3

SPAN 3255 History of Latin American Literature II 3

GE CAPSTONE COURSE

SPAN 4700 Seminar in Literature, Culture, or Language 3

MAJOR ELECTIVES 18

Select from 3000-4000 level courses in Spanish

FREE ELECTIVES 40-42

Select with advisement. At least 50% must be at 3000 level or above.

TOTAL 124

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more)

² A grade of C or better is required for all Additional General Education Requirements.

⁴ Excludes teaching methods courses

⁵ The 3 credits for a foreign language are awarded only upon successful completion of two semesters of study at the introductory or intermediate level.

B. A. DEGREE IN SPANISH WITH OPTION IN TEACHER CERTIFICATION (P-12) 127

Students choosing this option must make a formal application for admission to the School of Education. Prior to taking education courses, all prerequisites must be met.

All students must have and maintain a GPA of 3.0 or higher.

Praxis I – All students must earn the New Jersey Qualifying score on all three parts (reading, writing and math) of the Praxis I Core Academic Skills exam in order to be eligible for admission into the program as a declared major.

Praxis II – A passing score on the P-12 Spanish World Language Content Knowledge exam (computer test only) is required prior to taking the professional field experience.

Oral Proficiency Inventory – All students must achieve the standard of "Advanced High" on this examination.

Coordinator: Dr. Gregory Shepherd

Hutchinson Hall, Room 301 C (908) 737-3950

GENERAL EDUCATION REQUIREMENTS 46-48

FOUNDATIONS REQUIREMENTS² 13³

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition³ 3

MATH 1010 Foundations of Math 3

COMM 1402 Speech Communication as Critical Citizenship³ 3

GE 2023 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

Select courses from two of the following areas:

Fine Arts or Art History 3

Foreign Languages⁴ 3

Music or Theatre 3

Philosophy or Religion 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

Select courses from two of the following areas:

Economics or Geography 3

Political Science 3

Psychology 1000 3

Sociology or Anthropology 3

Science and Mathematics 10-11

*MATH 1016, 1030 or 1054 3

Select two courses from below.

One must be a lab science (4)

Biology 4

Chemistry or Physics 4

Meteorology	4
Astronomy, Earth Science, or Geology	4
Additional Science Course	3,4
Health and Physical Education	2-3
ID 1225 Issues in Contemporary Health	3

OR

Two ONE-Credit Physical Education courses	2
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MAJOR/CAPSTONE 3

SPAN 4700 Seminar in Span Lit/Civ	3
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ADDITIONAL REQUIRED COURSES² 21

** As determined by major advisor

Two courses (six credits) from 1000-2000, in sequence in any other Languages offered at Kean University (CHIN, FREN, GERM, HEBR, ITAL, POT)

OR

Two courses (six Credits) in the College of Humanities and Social Sciences

PSY 2110 Psych of Adolescence	3
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FL 3010 Comparative Phonology	3
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SPAN 3125 Contrastive Applied Linguistics	3
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SPAN 4100 Spanish Grammar: Morphology, Syntax	3
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ID 2955 Disabled Person in American Society	3
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MAJOR REQUIREMENTS 30

REQUIRED COURSES 6

SPAN 3100 Advanced Spanish Composition	3
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SPAN 3105 Advanced Spanish Conversation (for Non-Native Speakers)	3
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OR

Substitute 3105 for any SPAN 3000/4000 level course for Native Speakers)

REQUIRED SURVEY COURSES 6

One Civilization from the following:

SPAN 3210 Spanish Civilization I	3
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SPAN 3215 Spanish Civilization II	3
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SPAN 3225 Latin American Civilization I	3
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SPAN 3230 Latin American Civilization II	3
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Choose one of the following:

SPAN 3200 History of Spanish Literature I	3
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SPAN 3205 History of Spanish Literature II	3
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SPAN 3250 History of Latin American Literature I	3
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SPAN 3255 History of Latin American Literature II	3
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MAJOR ELECTIVES 18

(Select 3000-4000-level courses with a Spanish Department Advisement)

PROFESSIONAL EDUCATION REQUIREMENTS & GE CAPSTONE REQUIRES⁵ 30

Sophomore Level:

EMSE 2801 Introduction Field Experience P-12	3
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Junior Level:

EDUC 3000 Curriculum, Evaluation, & Learner	3
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EDUC 3401 Language Arts/ Reading P-12	3
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EMSE 3122 Computers in Education	3
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EMSE 3250 Methodology: P-12 Instruction	3
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EMSE 3801 Junior Field Experience	2
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EMSE 3903 Teaching ELL (take w/EMSE 3801)	1
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Senior Level:

EMSE 4811 Professional* Internship	9
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PROFESSIONAL/ GE CAPSTONE COURSE⁵

EDUC 4000 Teacher and Classroom	3
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* Prior to advancing to student teaching, students must pass the Praxis II P-12 Spanish Content Knowledge exam and have an overall GPA of 3.0.

TOTAL 127

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more)

² A grade of C or better is required for all Additional Required Courses.

³ ENG 1030 and COMM 1402 require a grade of B- or better.

⁴ Credit granted only upon completion of two semesters of elementary Or immediate foreign language

⁵ A maximum of two C's in all academic major courses. All other grades in academic major courses must be B- or better

⁶ A grade of B- or better required for all professional education courses. Except EMSE 3801 and 4801, which require a grade of satisfactory.

Note: See foreign language requirements

* Required Distribution Course or Discipline

** Course required by major

MINOR IN SPANISH

For students wishing to develop their general understanding of literature, writing, and linguistics, or who wish to concentrate in a particular area of Spanish language study, literature, or writing.

REQUIREMENTS 18

REQUIRED COURSES (FOR NON-NATIVE SPEAKERS OF SPANISH) 6

SPAN 1101 Intermediate Spanish I	3
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SPAN 1102 Intermediate Spanish II	3
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Prerequisites: SPAN 1102 Basic Spanish II is the prerequisite for Intermediate Spanish I, but the

student may have the Department's permission to waive the prerequisite. Native speakers of Spanish will substitute two 3000-4000 courses for the 6 credits of Intermediate Spanish.

ELECTIVES 12

Four three-credit courses selected from Spanish offerings at the 3000-4000 level, upon departmental advisement

AMERICAN SIGN LANGUAGE COURSES

Note: The ASL courses below were previously offered as CDD courses.

ASL 1101 American Sign Language I (3)
Introductory course to American Sign Language includes exposure to and practice with ASL terms, concepts, fingerspelling, linguistic structures and cultural norms; emphasis on vocabulary, visual/ gestural/structural components and interactions in the Deaf community.

Equivalent: CDD 1101

[NOTE: In order to fulfill a program's foreign language requirement, ASL 1102, American Sign Language II, must also be taken.]

ASL 1102 American Sign Language II (3)
Introduction to the language and culture of the Deaf community in North America continued. Includes basic vocabulary and grammar in the classroom and attendance at Deaf events outside the classroom. (E, SI, SII)

Equivalent: CDD 1102

Prerequisite: ASL 1101

ASL 3101 American Sign Language III (3)
Language and culture of the Deaf Community in North America continued. Includes advanced linguistic structures and ASL idioms, and issues affecting this population. Interaction in the Deaf Community required. (FA)

Equivalent: CDD 3101

Prerequisite: ASL 1102

ASL 3102 American Sign Language IV (3)
Language and culture of the Deaf Community in North America continued. Includes advanced linguistic structures and English idioms, and issues affecting this population. Interaction in the Deaf Community required. (SP)

Equivalent: CDD 3102

Prerequisite: ASL 3101

CHINESE

CHINESE COURSES, LANGUAGE

CHIN 1101 Basic Chinese I (3)

CHIN 1102 Basic Chinese II (3)

Introduction to the Chinese Mandarin language, focusing on the nature between language and Chinese culture. Emphasis on developing grammatical competence and communicative skills: listening, speaking, reading, and writing in Chinese. Not open to native speakers of Mandarin Chinese. Six credits must be successfully completed to fulfill the three credit hours for General Education Disciplinary Requirement. Lab required.

Prerequisite: 0-2 yrs high school Chinese equivalent and permission of instructor. Not open to native speakers of Mandarin Chinese

CHIN 2101 Intermediate Chinese I (3)

CHIN 2102 Intermediate Chinese II (3)
Continuation of Basic Mandarin Chinese, focusing on the relation between language and culture. Development of grammatical competence and communicative skills: listening, speaking, reading, and writing. Six credits must be successfully completed to fulfill the three credit hours for General Education Disciplinary Requirement. Lab required.
Prerequisite: 1 yr college Chinese or equivalent and permission of instructor.

CHIN 3101 Advanced Chinese I (3)

CHIN 3102 Advanced Chinese II (3)
Continuation of Intermediate Mandarin Chinese, focusing on the relation between language and culture. Development of grammatical competence and communicative skills: listening, speaking, reading, and writing. Six credits must be successfully completed to fulfill the three credit hours for General Education Disciplinary Requirement.
Prerequisite: 2 yr college Chinese or equivalent and permission of instructor.

CHIN 3110 Business Chinese (3)

For students interested in business studies concerning China. Systematic descriptions of Chinese language used in business discourse, its vocabulary, syntactic structures and pragmatic usages. Students will gain business related social-cultural awareness.
Prerequisites: Two years of Chinese at college level

CHINESE COURSES TAUGHT IN ENGLISH

AS 3116 (FL 3216) Introduction to Chinese Civilization (3)

A general survey of Chinese civilization, from antiquity to the present, with an examination of traditional Chinese society and thought from ancient times through imperial China, with an emphasis on the establishment of the empire, the flowering of Chinese culture, and the rich array of intellectual and social development that occurred during the middle and later empires, ending with the exploration of modern Chinese civilization after 1911.
Prerequisites: Undergraduate status or permission of instructor

AS 3211 (FL 3551) Chinese Literature in Translation I (3)

Broad overview of the literature and civilization of traditional China. Introduction to major works by Chinese writers and of the Chinese cultural context. Understanding of literary theory in general. Knowledge of Chinese not required.
Prerequisite: None

AS 3212 (FL 3552) Chinese Literature in Translation II (3)

Introduction to the history, themes and forms of Chinese literature from the sixteenth century to the late twentieth century. Inclusion of the most representative works and a number of different ways to approach literary texts critically. Knowledge of Chinese is not required.
Prerequisite: None

AS 3416 (FL 3556) Chinese Popular Culture and Films (3)

Broad overview of the development of cinema from Mainland China, Taiwan and Hong Kong. Introduction to major works by Chinese directors and the Chinese cultural context. Knowledge of Chinese not required.
Prerequisites: None

FRENCH

FRENCH COURSES, LANGUAGE

FREN 1101 Basic French I (FA) (3)

FREN 1102 Basic French II (3)
Designed to enable students to achieve a ready comprehension of spoken French, enhancing their appreciation of the language and the cultural aspects of the French-speaking world. After completion of the two semesters, students will have the ability to communicate in simple sentences in French and will obtain considerable ease in understanding and reading the language. (SP)
Prerequisite: 0-2 years of high school French and permission of instructor

GENERAL EDUCATION HUMANITIES DISCIPLINARY COURSE

FREN 1110-1115 French Abroad Summer Program at Angers, France (6)

A four-week program of intensive practice in spoken and written French at the Centre International d'Etudes françaises de l'Université Catholique de l'Ouest in Angers, France. Includes excursions to the castles of the Loire Valley, Brittany, and Paris. Open to students with basic or no experience in the language.
Prerequisite: Age 18 or older, regardless of educational affiliation
Travel/learn course

FREN 2101 Intermediate French Grammar: Reading and Writing (3)

Designed to increase proficiency in reading and writing French. Intensive work on correct usage of grammar, diction, and syntax in exercises and short writing assignments. Vocabulary building. Readings focusing on French culture and civilization. (FA)
May be taken concurrently with FREN 2102.
Prerequisite: French 1102, or 3 years of high school French, and permission of the Director of French Studies

FREN 2102 Intermediate French: Conversation (3)

Designed to increase proficiency in aural-oral communication skills and to develop fluency in speaking French. Vocabulary building, focusing on practical daily conversation (cuisine, travel, careers, student life), and French culture and mores. (SP)
May be taken concurrently with FREN 2102.
Prerequisite: French 1102, or 3 years of high school French, and permission of the Director of French Studies

FREN 2110-2115 French Abroad Summer Program at Angers, France (6)

A four-week program of intensive practice in spoken and written French at the Centre International d'Etudes françaises de l'Université Catholique de l'Ouest in Angers, France. Includes excursions to the castles of the Loire Valley, Brittany, and Paris.
Prerequisite: One year of college French or equivalent and permission of the Director of French Studies
Travel/learn course

FREN 3100 Advanced French Composition (3)

An intensive review of grammar and study of the problems of written composition in the French language. (SE)
Prerequisite: FREN 2101 and permission of instructor

WRITING EMPHASIS COURSE

FREN 3105 Advanced French Conversation (3)

Intensive concentration on vocabulary building, pronunciation, diction, phonetics, through oral discussions. Not open to native speakers of French.
Prerequisite: FREN 2102 and permission of instructor

FREN 3110-3115 French Abroad Summer Program at Angers, France (6)

A four-week program of intensive practice in spoken and written French at the Centre International d'Etudes françaises de l'Université Catholique de l'Ouest in Angers, France. Includes excursions to the castles of the Loire Valley, Brittany, and Paris.
Prerequisite: Two years of college French
Travel/learn course

FREN 3120 French Phonetics (3)

Comprehensive study of French speech sounds, problems of articulation, rhythm, accentuation, and intonation. Intensive language laboratory work. Conducted in French.
Prerequisite: FREN 2101 or FREN 2102 and permission of instructor

FREN 3130 Contemporary Readings in French (3)

Designed to develop the student's skills in reading French and to enhance linguistic and cultural knowledge of contemporary French. Conducted in French.
Prerequisites: FREN 3100 or equivalent and permission of the instructor

FREN 3150 French for Business I (3)

FREN 3155 French for Business II (3)
Introduction to mercantile practices, documents and terminology needed for the successful understanding of business usages of French in France and French-speaking countries. Conducted in French.
Prerequisite: FREN 2102 or equivalent and permission of instructor

FREN 4100 French Grammar: Morphology and Syntax (3)
An in-depth study of the morphological and structural features of French grammar with special emphasis on those areas of interference with the English language that present the greatest difficulties to the student of French. Conducted in French.
Prerequisite: FREN 3100 and permission of instructor

FREN 4105 Translation (French>English>French) (3)
Designed to teach the student the basic techniques of oral, literal and literary translation from French into English and from English into French. Conducted in French and English.
Prerequisite: FREN 3100 and permission of instructor

SURVEY COURSES

FREN 3102 Readings in Francophone Cultures and Civilizations (3)
Interdisciplinary study of fables, beast epics, fairy tales, and folk tales. Discussion of reading selections and analysis of illustrations, musical compositions, and films based on those texts. Focus on increasing proficiency in reading skills, learning grammatical structures of narrative works, and learning about French and francophone culture and civilization.
Prerequisite: 3 or 4 years of high school French; and permission of the Director of French Studies Disciplinary/Interdisciplinary Concentration

FREN 3200 Masterpieces of French Literature I (3)

FREN 3205 Masterpieces of French Literature II (3)
Reading, interpretation, and analysis of selected texts in French literature, from medieval times to the present. Conducted in French.
Prerequisite: FREN 2101 or FREN 2102 and permission of instructor

FREN 3210 French Civilization I (3)
An illustrated lecture course on the culture and civilization of France from the Middle Ages to modern times. Emphasis on geography, history, arts and letters, economic and social problems, philosophy and education. Conducted in French.
Prerequisite: FREN 2101 and permission of instructor

FREN 3215 French Civilization II (3)
Continuation of FREN 3210, with emphasis on the nineteenth and twentieth centuries.
Prerequisite: FREN 2101 and permission of instructor

FREN 3501 Francophone Culture and Civilization: Haiti (3)
Haitian civilization: history, religion, government, economics, fine arts, and literature. Haitian culture: customs, cooking, leisure-time activities. French influence on language, ideologies, holidays, and ways of life. Emphasis on the development of reading skills. Course conducted in French. Knowledge of Creole helpful.
Prerequisite: FREN 2101 or equivalent and permission of instructor

FREN 3605 Studies in French Cinema: Thematics (3)
The portrayal of the individual in French society through the examination of select themes in subtitled French films: city vs. provincial life; war and its aftermath; male/female relationships; coming of age. Examination of French notions of comedy. Conducted in English.
Prerequisite: FREN 2101 or FREN 2102 and permission of instructor

MAJOR PERIODS

FREN 4300 French Medieval Literature (3)
A study of selected works illustrating the development of French literature from its first manifestations to the fifteenth century. Conducted in French.
Prerequisite: FREN 210 or equivalent and permission of instructor

FREN 4305 French Literature of the Renaissance (3)
A study of selected readings illustrating the evolution of the literary aesthetics of the sixteenth century. Conducted in French.
Prerequisite: FREN 2101 or equivalent and permission of instructor

FREN 4311 The Classical Age I (3)

FREN 4312 The Classical Age II (3)
A study of the classical literary movement of the seventeenth century and its impact on all subsequent writers. Conducted in French.
Prerequisite: FREN 2101 or equivalent and permission of instructor

FREN 4315 The Age of Enlightenment (3)
Introduction to eighteenth-century French literature with the emphasis on the participation of Montesquieu, Voltaire, Diderot, and Rousseau in the intellectual and aesthetic currents of the period. Conducted in French.
Prerequisite: FREN 2101 or equivalent and permission of instructor

FREN 4320 Twentieth Century French Literature I (3)
Introduction to the expression of the various philosophical, religious, and aesthetic tenets in the poetry, plays, and fiction from the beginning of the twentieth century to the end of World War II. Conducted in French.
Prerequisite: FREN 2101 or equivalent and permission of instructor

FREN 4325 Twentieth Century French Literature II (3)
Introduction to existentialist and avant-garde literature. Conducted in French.
Prerequisite: FREN 2101 or equivalent and permission of instructor

GENRE COURSES

FREN 4400 French Dramatic Literature (3)
The major developments of French dramatic literature from its origins to the present time, studied through the most representative plays of the various periods. Conducted in French.
Prerequisite: FREN 2101 or equivalent and permission of instructor

FREN 4405 The French Novel (3)
In-depth study and analysis of the narrative techniques and informing ideas of representative novels of the major French literary periods. Conducted in French.
Prerequisite: FREN 2101 or equivalent and permission of instructor

FREN 4410 The Poetry of France (3)
Study of the form and content of the French poetic tradition. Analysis of selected poems representative of significant formal and thematic developments. Conducted in French.
Prerequisite: FREN 2101 or equivalent and permission of instructor

THEMES

FREN 4600 The Romantic Movement in France (3)
Reading, analysis and interpretation of the poetry, drama, and novel of the pre-romantic and romantic periods. Conducted in French.
Prerequisite: FREN 2101 or equivalent and permission of instructor

FREN 4605 Realism and Naturalism (3)
A study of the movement of ideas, the evolution of literary aesthetics, and the material and scientific progress of French society in the second part of the nineteenth century. Conducted in French.
Prerequisite: FREN 2101 or equivalent and permission of instructor

SEMINARS AND INDEPENDENT STUDY

FREN 4700 Seminar in French Literature (3)
A carefully delimited, concentrated study of a single author, genre, theme, literary technique or problem as selected by the instructor. Conducted in French.
Prerequisite: Nine hours in French literature Capstone course

FREN 4710 Independent Study in French Language or Literature (3)
The opportunity for students of advanced achievement to pursue in a concentrated, but informal manner a specific area of study in either language or literature that is not available through current course offerings.
Prerequisite: FREN 3100 and permission of instructor

FRENCH COURSES TAUGHT IN ENGLISH (FL)

FL 3100 Masterpieces of French Literature in Translation I (3)

FL 3105 Masterpieces of French Literature in Translation II (3)
A study of the forms of the French novel and drama, represented by such authors as Racine, Molière, Sartre, Beckett, Laclos, Balzac, Proust; ideas expressed in French literature by such writers as Montaigne, Descartes, Pascal, Voltaire, Rousseau, Camus. Conducted in English.
Prerequisite: FREN 1102, ENG 2403, and permission of instructor

FL 3210 Images of Women in French Films (3)
Introduction to the French feminist movement and its influence on contemporary cinema. Analysis of women's status and roles in society reflected in French films (with English subtitles). Conducted in English.
Prerequisite: FREN 1102, ENG 2403, and permission of instructor

FL 3215 French Literature on Film (3)
Reading of literary works that have served as sources for films and analysis of conventions of their cinematic narrations. French films with English subtitles. Conducted in English.
Prerequisite: FREN 1102, ENG 2403, and permission of instructor

FL 3220 Exploring France (3)
A two- to three-week guided tour through designated regions of France. An opportunity to visit historical sites, monuments and museums, as well as to use the French language. Lectures focusing on the French nationalistic spirit: customs, history, literature, and the fine arts. Itineraries will vary, so students may repeat the course once for credit. Conducted in English.
Prerequisite: Permission of instructor; minimum age, 18
Travel/learn course

GERMAN

GERMAN COURSES, LANGUAGE

GERM 1101 Basic German I (FA) (3)

GERM 1102 Basic German II (3)
Introduction to the German language, focusing on the relationship between language and Germanic cultures. Emphasis on developing grammatical competence and communicative skills: listening, speaking, reading, and writing in German. Not open to native speakers of German or to students who have taken more than two years of the language in high school. (SP)
Prerequisite: 0-2 years high school German or equivalent and permission of instructor
General Education Humanities Disciplinary Course

GERM 2101 Intermediate German I (FA) (3)

GERM 2102 Intermediate German II (3)
A further study of the German Language, building on Basic German. (SP)
Prerequisite: GERM 1102 and permission of instructor
General Education Humanities Disciplinary Course

GERM 3100 Advanced German Conversation and Composition I (3)

GERM 3105 Advanced German Conversation and Composition II (3)
Intensive practice in spoken and written German, stressing verbal fluency, accurate and idiomatic expression. Discussions and compositions based on selected readings in the various areas of German culture.
Prerequisite: GERM 2102 and permission of instructor

SURVEY COURSES

GERM 3200 Masterpieces of German Literature I (3)

GERM 3205 Masterpieces of German Literature II (3)
Reading, interpretation, and analysis of selected texts of representative authors of German literature. Conducted in German.
Prerequisite: GERM 2102 and permission of instructor

GERM 3210 German Civilization I (3)
An illustrated lecture course on the cultural and social history of Germany from the Reformation to Romanticism. Conducted in German.
Prerequisite: GERM 2102 and permission of instructor

GERM 3215 German Civilization II (3)
Continuation of GERM 3210, with emphasis on the nineteenth and twentieth centuries. Conducted in German.
Prerequisite: GERM 2102 and permission of instructor

SEMINARS AND INDEPENDENT STUDY

GERM 4710 Independent Study in German Language or Literature (3)
The opportunity for students of advanced ability on any level of matriculation to pursue in a concentrated but informal manner a specific area of study in foreign language or literature not available through current course offerings with a member of the department's faculty. The ideal opportunity for student initiative and individual attention. Conducted in German.
Prerequisite: GERM 3100 or 3105 and permission of instructor

GERMAN COURSES TAUGHT IN ENGLISH (FL)

FL 3200 Man and Society in Modern German Literature (3)
Writers' responses to political and social challenges in the Weimar Republic, Nazi Germany, and contemporary Germany. Authors include Brecht, Hesse, Thomas Mann, Heinrich Boll, Gunter Grass. Conducted in English.
Prerequisite: GERM 1102, ENG 2403, and permission of instructor

GREEK

GREE 1060 Introduction to Culture and Language (3)
Overview of Greek culture and traditions. Fundamentals of basic, modern Greek, with emphasis on conversation. Not open to native speakers of Greek.
Prerequisite: None.

HEBREW

HEBREW COURSES, LANGUAGE

HEBR 1101 Basic Hebrew I (3)

HEBR 1102 Basic Hebrew II (3)
An introduction to Modern Hebrew.
Prerequisite: None
General Education Humanities Disciplinary Course
Jewish Studies

HEBR 2101 Intermediate Hebrew I (3)

HEBR 2102 Intermediate Hebrew II (3)
A further study of the Hebrew Language.
Prerequisite: HEBR 1102 and permission of instructor
General Education Humanities Disciplinary Course
Jewish Studies

HEBR 3100 Advanced Hebrew Conversation and Composition I (3)
Intensive practice in spoken and written Hebrew, stressing verbal fluency, accurate and idiomatic expression. Discussions and compositions based on selected readings in the various areas of Hebrew literature and culture.
Prerequisite: HEBR 2102 and permission of instructor
Jewish Studies

HEBR 3105 Advanced Hebrew Conversation and Composition II (3)
Intensive practice in spoken and written Hebrew, stressing verbal fluency, accurate and idiomatic expression. Discussions and compositions based on selected readings in modern Hebrew literature and poetry.
Prerequisite: HEBR 2102 and permission of instructor
Jewish Studies

SURVEY COURSES

HEBR 3200 History of Hebrew Literature I (3)

HEBR 3205 History of Hebrew Literature II (3)
Introduction to representative masterpieces and major movements of Hebrew literature from the Biblical, Mishnaic, Talmudic, and Medieval to the contemporary period.
Prerequisite: HEBR 2102 and permission of the instructor
Jewish Studies

HEBREW COURSES TAUGHT IN ENGLISH (FL)

FL 3300 Masterpieces of Hebrew Literature in Translation I (3)

FL 3305 Masterpieces of Hebrew Literature in Translation II (3)
An introduction to the masterpieces of Hebrew literature in English translation. Reading, interpretation, and analysis of selected texts in Hebrew literature, from ancient to modern times. An introduction by means of modern critical methods of study to the history, literature and religion of Israel in the selected excerpts of Old Testament, Mishnah, Talmud, Gronica, Shmuel Hanaggid, Al Harizi, Mendelssohn, Wesly, Krochmal, J.L. Gordon, Ahad Ha'Am, Bialik and Agnon. Conducted in English.
Prerequisite: ENG 2403 and permission of the instructor
Jewish Studies

FL 3310 Hebrew Culture I (3)

FL 3315 Hebrew Culture II (3)
 Illustrated lecture courses on the culture and civilization of Jews from Biblical to medieval and modern times. Emphasis placed on religion, culture, education, and economic and social problems. Conducted in English.
Prerequisite: ENG 2403 and permission of the instructor
Jewish Studies

FL 3320 Modern Israeli Literature from Israeli Independence to the Present in Translation (3)
 Reading, interpretation and analysis of modern Israeli literature. Emphasis on the writing of Bialik, Tchernichovsky, Agnon, Hazaz, Greenberg and Shlonsky. Conducted in English.
Prerequisite: ENG 2403 and permission of the instructor
Jewish Studies

FL 3325 The Holocaust Literature in Translation (3)
 Reading, interpretation, and analysis of Holocaust Literature. Emphasis on such writings as Agnon, Greenberg, Ringelblum, Kaplan, Huberban, Lazar, and Wiesel. Course includes readings based on memoirs, testimonies, and diaries of victims, as well as survivors of the Holocaust. Conducted in English.
Prerequisite: ENG 2403 and permission of the instructor
Jewish Studies

ITALIAN

ITALIAN COURSES, LANGUAGE

ITAL 1101 Basic Italian I (FA) (3)
ITAL 1102 Basic Italian II (3)
 Designed to enable students to achieve a ready comprehension of spoken Italian, enhancing their appreciation of the language and the cultural aspects of the Italian-speaking world. After completion of the two semesters, students will have the ability to communicate in clear simple sentences in Italian and will obtain considerable ease in reading and understanding the language. Not open to native speakers of Italian. (SP)
Prerequisite: 0-2 years of high school Italian and permission of instructor
General Education Humanities Disciplinary Course

ITAL 2101 Intermediate Italian I (FA) (3)
ITAL 2102 Intermediate Italian II (3)
 Designed to expand the student's competence and fluency in speaking, understanding, reading, and writing Italian and to acquaint students with various aspects of the literature and culture of Italy. (SP)
Prerequisite: ITAL 1102 and permission of instructor
General Education Humanities Breadth Course

ITAL 3100 Advanced Italian Composition (3)
 An intensive review of grammar and study of the problems of written composition in the Italian language. Conducted in Italian. (SE)
Prerequisite: ITAL 2102 and permission of instructor
Writing emphasis course

ITAL 3105 Advanced Italian Conversation (3)
 Concentration on vocabulary building, pronunciation, diction, and phonetics through oral discussions. Not open to native speakers of Italian.
Prerequisite: ITAL 2102 and permission of instructor

ITAL 3710 Independent Study in Italian (3)
 Opportunity to pursue a specific area of study in Italian not available through current offerings. Formal faculty-student agreement on topic required.
Prerequisite: ITAL 2102

SURVEY COURSES

ITAL 3210 Italian Civilization I (3)
 An illustrated lecture course on the culture of Italy from its Roman origin through the Renaissance. Topics to be viewed are the geography, arts and letters, economic and social developments, philosophy of life and education, with emphasis on their interrelationships. Conducted in Italian.
Prerequisite: ITAL 2102 and permission of instructor

ITAL 3215 Italian Civilization II (3)
 An illustrated lecture course on the culture of Italy after the Renaissance until and including the twentieth century. Geography, arts and letters, economic and social developments, philosophy of life and education, with emphasis on their interrelationships. Conducted in Italian.
Prerequisite: ITAL 2102 and permission of instructor

ITAL 3300 Modern and Contemporary Italy Through Italian Films (3)
 A portrait of Italy's modern history including socio-economic development from the fifty's to the present, through Italian films. Emphasis will be on topics such as immigration, cultural diversity, education and industry. Conducted in Italian.
Prerequisites: ITA 1101/1102, or permission of instructor

MAJOR PERIODS

ITAL 4305 Humanism and the Renaissance of Italy (3)
 A study of the emergence of the ideal Renaissance man in the humanist movement and its realization in the literature of the Italian Renaissance. Conducted in Italian.
Prerequisite: ITAL 2102 and permission of instructor

ITAL 4320 Italian Literature of the Twentieth Century (3)
 Twentieth century Italian literature studied from D'Annunzio through post-World War I writers, tracing new concepts such as crepuscularismo, decadentismo, futurismo, neorealismo and considering each movement as a particular expression of modern society. Conducted in Italian.
Prerequisite: ITAL 2102 and permission of instructor

ITALIAN COURSES TAUGHT IN ENGLISH (FL)

FL 3125 Italian Material Culture: Regional Cuisine, Crafts, and Customs (3)
 A four-week tour of Italy that focuses on customs and material culture. Visits to artisans and manufacturers of local products (glass, jewelry, ceramics, paper, wine, bread, olive oil, and cheese). Various itineraries, dates, and fees. May be repeated once for credit.
Prerequisite: Permission of the instructor; minimum age, 18
Travel/learn course

FL 3225 Civilization of Italy I (3)
 An illustrated lecture course on the culture and civilization of Italy from its origins through the Renaissance. Topics include geography, history, economic and socio-political development, arts and letters.
Prerequisite: ENG 1030, 1031-1032 or 1033-1034, and permission of instructor

FL 3230 Civilization of Italy II (3)
 An illustrated survey course on civilization and culture from the mid-sixteenth century to the unification of Italy in 1861. Topics include the fine arts, literature, geography, history, economic, and socio-political development. Additional fees required for field trips. Conducted in English.
Prerequisite: ENG 1030, 1031-1032 or 1033-1034, and permission of instructor

FL 3250 Italian Culture: Yesterday and Today (3)
 A two- to three-week educational tour of Italy that focuses on the roots and development of modern Italy and its peoples. Guided visits to sites, monuments and museums that illustrate various periods in Italian civilization. Destinations and travel costs will vary. May be repeated once for credit.
Prerequisite: Permission of instructor; minimum age, 18
Travel/learn course

FL 3400 Italian Literary Heritage I (3)

FL 3405 Italian Literary Heritage II (3)
 Courses designed to acquaint students with the development of Italian literature through the study of some of its most important and representative works.
Prerequisite: ENG 1030, 1031-1032 or 1033-1034, and ENG 2403, and permission of instructor
General Education Concentration course

PORTUGUESE

PORTUGUESE COURSES, LANGUAGE

PORT 1101 Basic Portuguese I (FA) (3)

PORT 1102 Basic Portuguese II (3)
 Introduction to the Portuguese language and Luso-Brazilian cultures. Focus on the relationship between language and culture. Emphasis on developing grammatical competence and communicative skills: listening, speaking, reading, and writing in the target language. Not open to native speakers of Portuguese. (SP)
Prerequisite: 0-2 yrs of high school Portuguese or equivalent and permission of instructor
General Education Humanities Disciplinary Course

PORT 2101 Intermediate Portuguese I (FA) (3)

PORT 2102 Intermediate Portuguese II (3)
Review and amplification of the Portuguese language, focusing on the relationship between language and Luso-Brazilian cultures. Emphasis on developing grammatical competence and communicative skills. Cultural topics covered in more depth. Not open to native speakers of Portuguese. (SP)

Prerequisite: 3-4 yrs high school Portuguese or equivalent and permission of instructor
General Education Humanities Disciplinary Course

PORT 3105 Advanced Portuguese Conversation (3)

Intensive concentration in vocabulary building, pronunciation, diction, and phonetics through oral practice discussions. Not open to native speakers of Portuguese.

Prerequisites: PORT 2101/02, or permission of instructor

PORT 3100 Advanced Portuguese Composition (3)

An intensive review of grammar and study of the complexity of written composition in the Portuguese language. Conducted in Portuguese. (SE)

Prerequisites: PORT 2101/02, or permission of instructor.

PORT 3300 Portuguese Medieval Literature I (3)

This course is an introduction approach to the medieval literature focusing on the development of Portuguese literature from its first manifestations to the 14th century. Emphasis will be focused on reading: both of prose and poetry, introducing the students to old Portuguese texts. Conducted in Portuguese.

Prerequisites: PORT 2101/02, or permission of instructor.

SPANISH COURSES, LANGUAGE

SPAN 1101 Basic Spanish I (E, SSI) (3)

SPAN 1102 Basic Spanish II (3)
Designed to enable students to achieve a ready comprehension of spoken Spanish, enhancing their appreciation of the language and the cultural aspects of the Spanish-speaking world. After completion of the two semesters, students will have the ability to communicate in simple sentences in Spanish and will obtain considerable ease in understanding and reading the language. Not open to native speakers of Spanish. (E, SSII)
Prerequisite: 0-2 years high school Spanish or equivalent
General Education Humanities Disciplinary Course

LATIN AMERICAN STUDIES

SPAN 2101 Intermediate Spanish I (E) (3)

SPAN 2102 Intermediate Spanish II (3)
Continuing development of linguistic competence and communicative skills, focusing on the relationships between language and culture. Introduction to various aspects of the Spanish and Latin American literatures, civilizations, and cultures. Not open to native speakers of Spanish. (SP)

Prerequisite: SPAN 1102 and permission of instructor
General Education Humanities Disciplinary Course Latin American Studies

SPAN 3020 Spanish for Social Services (3)
Vocabulary, syntax, and formal (governmental and legal) linguistic structures used most commonly in Social Work and similar fields. Conducted in Spanish. (FA)

Prerequisite: SPAN 2102 or equivalent and permission of instructor

SPAN 3100 Advanced Spanish Composition (3)

An intensive review of grammar and study of the problems of written composition in the Spanish language. Conducted in Spanish. (E)

Prerequisite: SPAN 2102 and permission of instructor
Writing Emphasis Course Latin American Studies

SPAN 3101 Advanced Spanish I (FO, SSIO) (3)

SPAN 3102 Advanced Spanish II (3)
Focus on all aspects of learning Spanish. Grammar review through selected readings. Emphasis on reading and conversation to prepare non-native speakers of Spanish for additional 3000-level courses. Not open to native speakers of Spanish. Conducted in Spanish. (SE, SSII)
Prerequisite: SPAN 2102 or equivalent and permission of instructor

SPAN 3105 Advanced Spanish Conversation (3)

Intensive concentration in vocabulary building, pronunciation, diction, and phonetics through oral discussions. Not open to native speakers of Spanish. Conducted in Spanish. (E)

Prerequisite: SPAN 2102 or permission of instructor
Latin American Studies

SPAN 3108 Translation I (3)

An introduction to translating English>Spanish>English. Exploration of variants in semantics and issues of literal and interpretive translations. Conducted in Spanish and English.
Prerequisite: SPAN 3102 and permission of instructor

SPAN 3110 Business Spanish I (3)

Designed to acquaint the student with the mercantile practices, documents, and terminology needed for the understanding of the business usages of the Spanish-speaking countries. Conducted in Spanish. (E)

Prerequisite: SPAN 3102 and permission of instructor

SPAN 3111 Business Spanish II (3)

Continuation of SPAN 3110. Further presentation of vocabulary and idioms, and language structures unique to business, including online protocols. Conducted in Spanish.

Prerequisite: SPAN 2102 and 3110 and permission of instructor.

SPAN 3115 Spanish Phonetics (3)

An in-depth study of Spanish phonetics, covering certain necessary aspects of historical phonetics. Conducted in Spanish. (FA)

Prerequisites: SPAN 3100 and SPAN 3105 and permission of instructor

SPAN 3120 Special Problems in Spanish Grammar (3)

Students will study the grammatical problems that confront native Spanish speakers raised and educated in an English-speaking community. Open only to native speakers of Spanish. (SP)

Prerequisite: Permission of instructor

SPAN 3125 Contrastive Applied Linguistics in Spanish (3)

Linguistic approach to the teaching of Spanish. Required of majors seeking teacher certification. Conducted in Spanish. (E)

Prerequisite: Permission of instructor

SPAN 3130 Intensive Spanish Language (3)

Complete review of Spanish grammar, phonology, and practical conversation geared to the needs of the non-native teacher of Spanish.

Prerequisites: SPAN 3100 and 3105 and permission of instructor

SPAN 4100 Spanish Grammar: Morphology and Syntax (3)

An in-depth study of the most important morphological and structural features of Spanish grammar with special emphasis on those areas of interference with the English language that present the greatest difficulties to the student of Spanish. Conducted in Spanish. (E)

Prerequisite: SPAN 3100 and permission of instructor

SPAN 4105 Translation (Spanish>English>Spanish) (3)

Designed for the instruction of useful techniques in translation and interpretation from Spanish into English and English into Spanish. Conducted in Spanish and English. (FA)

Prerequisite: SPAN 3100 and permission of instructor

SPAN 4469 Comparative Spanish Grammar (3)

A study of selected topics in Spanish grammar and their relationship to English grammar. Conducted in Spanish. (SP)

Prerequisite: SPAN 3100 and SPAN 4100

SURVEY COURSES

SPAN 3200 History of Spanish Literature I (FA) (3)

SPAN 3205 History of Spanish Literature II (3)

An introductory survey of representative masterpieces and major movements of Spanish literature from its beginnings to the contemporary period. Conducted in Spanish. (SP, SSIO)

Prerequisite: SPAN 3100 and permission of instructor

SPAN 3210 Spanish Civilization I (3)

An illustrated lecture course on the culture and civilization of Spain, from the Middle Ages through the Renaissance. Emphasis will be placed on history, geography, arts and letters, economic and social problems, philosophy and education. Conducted in Spanish. (FA, SSIE)

Prerequisite: SPAN 3102 and permission of instructor

SPAN 3215 Spanish Civilization II (3)

A continuation of Spanish Civilization I. Deals with Spanish history and culture from the end of the Renaissance to present day Spain. Conducted in Spanish (SP)

Prerequisite: SPAN 3102 and permission of instructor

SPAN 3220 Colonial Spanish-American Literature (3)

Reading, interpretation, and analysis of selected authors and texts in Colonial Spanish-American literature from its origins to 1832. Conducted in Spanish. (E)

Prerequisite: SPAN 3102 and permission of instructor

Latin American Studies

SPAN 3225 Latin American Civilizations I(3)

An illustrated lecture course on the civilizations of Latin America from the Pre-Colombian times to Independence. Emphasis will be placed on the geographical and historical background, arts and letters, economic and social problems, and philosophy and education. Conducted in Spanish. (FA)

Prerequisite: SPAN 3102 and permission of instructor. *Latin American Studies*

SPAN 3230 Latin American Civilizations II (3)

A continuation of Latin American Civilizations I. Deals with the cultures and civilizations of Latin America from the time of the Independence to the present day. Conducted in Spanish. (SP, SSIE)

Prerequisite: SPAN 3102 and permission of instructor

Latin American Studies

SPAN 3235 Hispanic Women Writers (3)

Survey of works by Spanish and Latin-American women writers, from Santa Teresa and Sor Juana to contemporary authors. Exploration of different genres, including poetry, prose, and drama. Conducted in Spanish. (SP, SSIE)

Prerequisite: SPAN 3102 and permission of instructor

SPAN 3240 Development of Puerto Rican Culture (3)

A study of Puerto Rico, its people and customs, and the development of Puerto Rican culture since the discovery to the present. Conducted in Spanish. (FA, SSIO)

Prerequisite: SPAN 3102 and permission of instructor

SPAN 3250 Survey of Latin American Literature I (FA, SSIO) (3)**SPAN 3255 Survey of Latin American Literature II (3)**

Introduction to important literary works of Spanish-speaking Latin America from Pre-Colombian cultures. Emphasis on how cultural, historical and geographical factors have produced widely varying literatures. (SP)

Prerequisite: SPAN 3102 and permission of instructor

PERIODS**SPAN 4200 Islamic Spain (3)**

A study of the impact of Islam in Spain, its peculiar development in the peninsula from 711 A.D. to 1492, and its importance in the formation of the Spanish character and culture. The overall importance of Islamic Spain with respect to European Medieval culture. Conducted in Spanish.

Prerequisite: SPAN 3200 or SPAN 3210 and permission of instructor

SPAN 4301 Spanish Medieval Literature I (3)

A study of selected works illustrating the development of Spanish literature from its first manifestations to the 12th century. Includes both prose and poetry, introducing the students to texts in old Spanish. Conducted in Spanish.

Prerequisite: SPAN 3102 and permission of instructor

SPAN 4302 Spanish Medieval Literature II (3)

Development of Spanish literature from 12th century to the end of the Middle Ages. Includes prose, poetry, and early drama. Conducted in Spanish.

Prerequisite: SPAN 4301 and permission of instructor

SPAN 4303 Literature and Culture of 18th Century Spain (3)

Literature and intellectual life of Spain in the 18th century through the reading, interpretation, and analysis of selected texts. Conducted in Spanish.

Prerequisite: Spanish 3102 and permission of instructor

SPAN 4305 Literary Currents in 19th Century Spain (3)

Reading, interpretation, and analysis of selected texts from 19th century Spain, with an in-depth study of the major literary movements during that period. Conducted in Spanish.

Prerequisite: SPAN 3102 and permission of instructor

SPAN 4310 The Generation of '98 (3)

A study of selected works of the Generation of 1898 through the analysis of representative authors and the milieu that spawned the literature of the period. Conducted in Spanish. (SO)

Prerequisite: SPAN 3102 and permission of instructor

SPAN 4315 Literature and Culture of 20th Century Spain (3)

Reading, interpretation, and analysis of selected texts in 20th-century Spain. Novel, short story, theater, poetry, and film from the period studied. Conducted in Spanish. (SO)

Prerequisite: Spanish 3102 and permission of instructor

GENRE COURSES**SPAN 3060 Latin American Short Story (3)**

Introduction to selected short stories suitable for beginning through advanced students of Spanish. Emphasis on cultural influences and literary interpretations. Conducted in Spanish. (E)

Prerequisite: SPAN 3102 and permission of instructor

SPAN 3070 Latin American Theatre (3)

Introduction to theatre through survey of one-act plays suitable for beginning through advanced students of Spanish. Emphasis on theatre versus drama, cultural and political influences, and literary interpretations. Conducted in Spanish.

SPAN 3400 Theory of Literature (3)

Fundamental approaches to the analysis of poetry, prose, and drama. Examination of contemporary literary theory and criticism. Conducted in Spanish. (FA)

Prerequisite: SPAN 3100 or permission of instructor

SPAN 4400 Spanish Renaissance and Baroque Theater (3)

A study of the Spanish theater during the Golden Age, through the analysis of representative plays. Conducted in Spanish.

Prerequisite: Spanish 3102 and permission of instructor

SPAN 4405 Spanish Renaissance and Baroque Prose (3)

A study of the novels and short story of Spain during the Golden Age through the analysis of the most important prose works. Conducted in Spanish.

Prerequisite: SPAN 3102 and permission of instructor

SPAN 4410 Spanish Renaissance and Baroque Poetry (3)

A study of the poetry of Spain during the Golden Age through the analysis of representative works of the most important poets. Conducted in Spanish.

Prerequisite: SPAN 3102 and permission of instructor

SPAN 4415 The Spanish-American Novel (3)

A study of the main novelistic currents in Spanish-America from the 19th to the early 21st century. Course augmented by films based on Spanish-American novels studied. Conducted in Spanish. (SP)

Prerequisite: SPAN 3102 and permission of instructor

Latin American Studies

SPAN 4420 Twentieth Century Spanish-American Poetry (3)

Reading, interpretation, and analysis of selected texts from postmodernism to the present time. Conducted in Spanish. (E)

Prerequisite: SPAN 3102 and permission of instructor

Latin American Studies

SPAN 4425 Essays in Spanish-American Literature (3)

A study of the genre from its beginning to the present time through the analysis of representative essays. Conducted in Spanish. (SE)

Prerequisite: SPAN 3100 or 3102 or permission of instructor

Latin American Studies

FIGURES**SPAN 4500 Cervantes (3)**

In-depth study and analysis of the literary techniques of Cervantes and of his most representative works, with special focus on Don Quixote. Conducted in Spanish. (FO)

Prerequisite: SPAN 3100 or 3102 or permission of instructor

THEMES

SPAN 4600 Modernism (3)

A study of the origins and development of Modernism through the analysis of representative texts, primarily poetry. Conducted in Spanish. (SE)

Prerequisite: SPAN 3100 or 3102 or permission of instructor

SPAN 4605 Gauchesca Literature (3)

A study of selected works illustrating the development of the "gaucho" literature from its first manifestations to the 20th century. Emphasis on Martin Fierro. Conducted in Spanish.

Prerequisite: SPAN 3100 or 3102 or permission of instructor

Latin American Studies

SPAN 4610 Romanticism (3)

Study of the origins and development of Romanticism through the analysis of representative authors in Spain and Spanish America. Conducted in Spanish.

Prerequisite: SPAN 3100 or 3102 or permission of instructor

SEMINARS AND INDEPENDENT STUDY

SPAN 4700 Seminar in Hispanic Literature, Culture, or Language (3)

Capstone course for Spanish Majors (B.A.) and Spanish Majors seeking P-12 Certification. A carefully delineated, concentrated study of a single author, genre, theme, literary technique, cultural component or linguistic issue, as selected by the instructor. Student may take up to two Seminars in different subjects. Conducted in Spanish. (E)

Prerequisite: Nine hours of Spanish literature, culture, or language courses

GE capstone course

SPAN 4710 Independent Study in Hispanic Literature, Culture, or Language (3)

The opportunity for seniors of advanced achievement to pursue in a concentrated but informal manner a specific area of study that is not available through current course offerings. The student and a senior member of the department's Spanish faculty, with whom the student has already studied, must identify the focus of the project and draft the proposal. The contract may not include any topic covered in the courses offered during the same semester. Conducted in Spanish.

Prerequisites: Senior status and major in Spanish

SPANISH COURSES TAUGHT IN ENGLISH (FL)

FL 3010 Comparative Phonology (3)

Basic phonological components of present day Spanish and their relationship to modern English. Application of phonological principles to the teaching of Spanish. Required of Spanish Majors seeking P-12 Spanish Certification. Conducted in English with bilingual textbook. (E)

Prerequisite: ENG 1030, 1031-1032 or 1033-1034, and permission of instructor

FL 3510 The Literature of the Spanish People I (3)

FL 3515 The Literature of the Spanish People II (3)

Courses designed to acquaint students with the development of Spanish literature through the study of some of its most important and representative works in translation. Conducted in English.

Prerequisite: ENG 1030 and permission of instructor

College of Humanities and Social Sciences

Graduates of the College of Humanities and Social Sciences emerge from Kean University as the well-rounded, intellectually strong job candidates that employers seek. The majors available in the College promote three elements that are essential for success in the job market - creativity, critical thinking and communication. In a world where the average person will change careers five times or more, the adaptability furnished by a liberal arts education at Kean University is invaluable.

For more information about College of HSS programs, please see:

<http://www.kean.edu/academics/college-humanities-and-social-sciences>

Dean:

Dr. Suzanne Bousquet
CAS-405 (908) 737-0430
Acting Assistant to the Dean:
Ms. Deborah Skibitsky
CAS-405C (908) 737-0434

School of Communication, Media & Journalism

Dr. Jack Sargent
Executive Director
CAS 402 A (908) 737-0460

School of English Studies: Writing, Literacy and Literature

Dr. Charles Nelson
Executive Director
CAS 301 (908) 737-0393

School of General Studies

Dr. Karin Beck
Executive Director
CAS 201B (908) 737-0333

Department of History

Dr. Jonathan Mercantini
Chairperson
T 117 (908) 737-0250

School of Psychology

Dr. Verneda Hamm-Baugh
Acting Executive Director
EC 234 (908) 737-5870

School of Social Sciences

J 103 (908) 737-4050

ACADEMIC DEGREES, PROGRAMS

B.A. in Communication
Communication Studies Option
Journalism Option
Media/Film Option
Public Relations Option

B.A. in Economics
Teacher Certification Option
B.A. in English
Standard Option (Literature)
Writing Option
Teacher Certification Option
Dual Certification Option: Teacher of Students with Disabilities and English P-12
English in Global Settings Option
B.A. in History
Teacher Certification Option
Dual Certification Option: Teacher of Students with Disabilities and History P-12
Honors Option
B.A. Asian Studies
B.A. Political Science
International/Comparative
Politics Option
Teacher Certification Option
B.A. in Psychology
B.S. in Psychology/Psychiatric Rehabilitation
B.A. in Sociology

DISCIPLINARY MINORS

Communication
Economics
English
History
Political Science
Philosophy and Religion
Psychology
Social Media
Sociology

INTERDISCIPLINARY MINORS

Africana Studies
Asian Studies
Chinese Studies
Jewish Studies and World Affairs
Latin American Studies
Women's Studies

FACULTY

Communication, Media & Journalism

Faculty: Atkins, Baker, Fitch, Kolbensschlag, Londino, Lynch, McHugh, Mirrer, Oakes, Sargent (Executive Director), Sullivan, Winters-Lauro, Yedes, Yuan
Wenzhou-Kean: Chai, Critchfield, Girardelli, Kamphoefner

Economics

Faculty: Fulop (Coordinator), Scoullis, Skoorka
Wenzhou-Kean: Bougioukos, Chang, Lin

English

Faculty: Balakian, Casale, Connor, Gover, Griffith, Gruesser, Gupta-Casale, Katz, Nelson (Executive Director), Rich, Sisler, Zamora

Wenzhou-Kean: Barroero, Birkby, Brown, Chiang, Cross, De Vul, Drape, Duff, Ertsgaard, Gaikwad, Gilmartin, Gjocis, G. Gray, Hendrick, Hernandez, Lane, Lew, Linebarger, Ma, Marquardt, Masterson, Miceli, Nankov, Pearson, Price, Ramsey, Roach, Scalia, Stiley, Wills, Wright

General Studies

Faculty: Beck (Executive Director), Cetoute, Chapman, Chen, Connors, DaCosta, Diaz, Kaplan, Keddis, Kennedy, Lepore, Lodge, Negoita, Orejarena, Sisler, P. Ward, S. Ward
Wenzhou-Kean: Braxton, Manning, Prince

History

Faculty: Argote-Freyre, Bellitto, Esposito, Gronewold, Hyde, Klein, Kong, Mercantini (Chairperson), Nicholson, Perkiss, Regal, Wetta

Wenzhou-Kean: Rodriguez

Political Science

Faculty: Boateng, Chang, Hunt (Coordinator), Kahn, Keil, Richani, Sitelman
Wenzhou-Kean: Toomey

Psychology

Faculty: Avioli, Boyd-Jackson, Conti, Fantaousakis, Filardo, Gratz, Hamm-Baugh (Acting Executive Director), Humes, Kim, Levine-Sauberaman, Martins-Shannon, Mastrobuono, O'Brien, O'Desky, Singer, Symanski, Turner
Wenzhou-Kean: Stuart

Sociology and Anthropology

Faculty: Conyers, Gamvas, Krauss, Langer, Nevarez (Coordinator), Toby

COURSE SCHEDULING FREQUENCIES

At the end of the course description is a code in parenthesis that indicates the frequency the course is offered to assist students in planning their registration.

Key:

E = Every Semester
FA = Every Fall
SP = Every Spring
FE = Fall, Even Years
SE = Spring, Even Years
FO = Fall, Odd Years
SO = Spring Odd Years
E3 = Every Third Semester
WS = Every Winter Session
SSI = Every Summer Session I
SSII = Every Summer Session II
SSIE = Summer Session I, Even Years
SSIO = Summer Session I, Odd Years
SSII = Summer Session II, Even Years
SSII = Summer Session II, Odd Years

The School of Communication, Media & Journalism

Dr. Jack Sargent, Executive Director

CAS 402-A (908) 737-0460

The School of Communication, Media & Journalism offers a B.A. degree in Communication with four options. Majors will choose an area of emphasis from Communication Studies, Public Relations, Journalism or Media/Film. The communication major will grapple with issues concerning the role and impact that communication makes in individual, institutional, social and cultural life. An integrated curriculum is offered in which all majors will take a common core of courses. The Communication degree is adaptable to numerous career options while developing problem solving, conflict resolution, listening, media literacy, team-building, speaking, media production, editing, journalism, writing, leadership and critical thinking abilities. The curriculum, which focuses on both theory and practice, offers a strong preparation for numerous careers in communication as well as graduate school. Students can gain experience through the university newspaper, *The Tower*, or through the radio station, WKNJ, as well as a range of internships and experiential opportunities in and outside the classroom. Students can participate in two honor societies: Lambda Pi Eta or AERho.

To qualify as a major, students must maintain a minimum 2.5 GPA in all course work, both in the department and overall. All major courses including the capstone and ID 2415 require a grade of "C" or better.

For more information about College of HSS programs, please see:

<http://www.kean.edu/academics/college-humanities-and-social-sciences>

B.A. DEGREE IN COMMUNICATION 124 S.H.

COMMUNICATION STUDIES OPTION

GENERAL EDUCATION 47-48

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition² 3

MATH 1010 Foundations of Math 3

OR MATH 1016 Statistics 3

COMM 1402 Speech Communication as Critical Citizenship² 3

GE 2023 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

Select two from the following areas:

Fine Arts/Art History 3

Philosophy or Religion 3

Foreign Languages 3

(Must take I and II for credit)

Music or Theatre 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

Select two from the following areas:

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Science and Mathematics 10-11

*MATH 1010, 1016, 1030, 1054

OR CPS 1032, 1231 3

Select any two areas from below; one must be lab course:

Biology 3, 4

Chemistry or Physics 3, 4

Astronomy, Geology or Meteorology 3, 4

Interdisciplinary 3

Health/Physical Education 3

ID 1225 Issues Contemporary Health 3

OR

ID 1010 Leisure & Recreation in Multicultural Society 3

MAJOR/GE CAPSTONE COURSE 3

COMM 4962 Communication Research Seminar 3

ADDITIONAL REQUIREMENTS 3

ID 2415 Group Communication 3

ACADEMIC MAJOR 45

REQUIRED CORE I 12

COMM 2405 Public Speaking 3

COMM 2503 Mass Media 3

COMM 3510 Persuasive Communication 3

COMM 3720 Communication & Media Theory 3

REQUIRED CORE II 18

Choose 6 COMM courses. See selected concentrations

COMMUNICATION ELECTIVES 15

Choose any 5 COMM courses

FREE ELECTIVES 27-28

At least 50% must be 3000/4000 level

Students should not take COMM courses as free electives

TOTAL 124

*General Education Required Course

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

² Students need a "C" or better to satisfy requirement.

³ Not required of students with a second major, minor or collateral.

B.A. COMMUNICATION

JOURNALISM OPTION

GENERAL EDUCATION 47-48

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition² 3

MATH 1010 Foundations of Math 3

OR MATH 1016 Statistics 3

COMM 1402 Speech Communication as Critical Citizenship² 3

GE 2023 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

Select two from the following areas:

Fine Arts/Art History 3

Philosophy or Religion 3

Foreign Languages 3

(Must take I and II for credit)

Music or Theatre 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

Select two from the following areas:

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science and Mathematics 10-11

*MATH 1010, 1016, 1030, 1054

OR CPS 1032, 1231 3

Select any two areas from below; one must be a lab course:

Biology 3, 4

Chemistry or Physics 3, 4

Astronomy, Geology or Meteorology 3, 4

Interdisciplinary 3

Health/Physical Education 3

ID 1225 Issues Contemporary Health 3

OR

ID 1010 Leisure & Recreation in Multicultural Society 3

MAJOR/GE CAPSTONE COURSE 3

COMM 4962 Communication Research Seminar 3

ADDITIONAL REQUIREMENTS 6

ID 2415 Group Communication 3

FA 2275 Digital Photography OR

FA 3273 Photojournalism	3
ACADEMIC MAJOR	45
REQUIRED CORE I	12
COMM 2405 Public Speaking	3
COMM 2503 Mass Media	3
COMM 3510 Persuasive Communication	3
COMM 3720 Communication & Media Theory (WE)	3
REQUIRED CORE II	18
COMM 2920 Intro to Journalism	3
COMM 2403 Production Foundations	3
COMM 3780 Tower Practicum	1
COMM 3780 Tower Practicum	1
COMM 3780 Tower Practicum	1
COMM 3910 Advanced Journalism	3
COMM 3915 Feature Writing	3
OR	
COMM 3920 Specialty Writing on the Web	3
COMM 3925 Editing Skills in Journalism	3
COMMUNICATION ELECTIVES	15
Choose any 5 COMM courses	
FREE ELECTIVES	24-25
At least 50% must be 3000/4000 Level	
Students should not take COMM courses as free electives	

TOTAL 124

*General Education Required Course

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

² A grade of "C" or better is required.

³ Not required of students with a second major, minor or collateral.

B.A. COMMUNICATION

MEDIA/FILM OPTION

GENERAL EDUCATION 47-48

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition² 3

MATH 1010 Foundations of Math 3

OR MATH 1016 Statistics 3

COMM 1402 Speech Communication as Critical Citizenship² 3

GE 2023 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

Select two from the following areas:

Fine Arts/Art History 3
Philosophy or Religion 3
Foreign Languages (Must take I and II for credit) 3
Music or Theatre 3
Interdisciplinary 3

Social Sciences

*HIST 1062 Worlds of History 3

Select two from the following areas:

Psychology 3
Economics or Geography 3
Political Science 3
Sociology or Anthropology 3
Interdisciplinary 3

Science and Mathematics 10-11

MATH 1010, 1016, 1030, 1054

OR CPS 1032, 1231 3

Select any two areas from below; one must be a lab course:

Biology 3, 4
Chemistry or Physics 3, 4
Astronomy, Geology or Meteorology 3, 4
Interdisciplinary 3

Health/Physical Education 2,3

ID 1225 Issues Contemporary Health 3

OR

ID 1010 Leisure & Recreation in Multicultural Society 3

MAJOR/GE CAPSTONE COURSE 3

COMM 4962 Communication Research Seminar 3

ADDITIONAL REQUIRED COURSES 6

PS 2300 Intro to Comparative Politics 3

OR PS 2400 Intro to International Relations 3

ENG 2920 Intro to Journalism 3

ACADEMIC MAJOR 45

REQUIRED CORE I 12

COMM 2503 Mass Media 3

COMM 2703 Media Performance 3

COMM 3510 Persuasive Communication 3

COMM 3720 Communication and Media Theory 3

REQUIRED CORE II 18

COMM 2403 Production Foundations 3

COMM 2603 Audio Production 3

COMM 3003 Media Journalism 3

COMM 3612 Film History I 3

COMM 3813 Video Field Production 3

COMM 4102 Film Editing 3

COMMUNICATION ELECTIVES 15

CHOOSE ANY 5 COMM COURSES

FREE ELECTIVES: 24-25

At least 50% must be 3000/4000 level

Students should not take COMM courses as free electives

TOTAL 124

*General Education Required Course

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

² A grade of "C" or better is required.

³ Not required of students with a second major, minor or collateral.

B.A. COMMUNICATION

PUBLIC RELATIONS OPTION

GENERAL EDUCATION 47-48

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition² 3

MATH 1010 Foundations of Math 3

OR MATH 1016 Statistics 3

COMM 1402 Speech Communication as Critical Citizenship² 3

GE 2023 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

Select two from the following areas:

Fine Arts/Art History 3

Philosophy or Religion 3

Foreign Languages (Must take I and II for credit) 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

Select two from the following areas:

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science and Mathematics 10-11

*MATH 1010, 1016, 1030, 1054

OR CPS 1032, 1231 3

Select any two areas from below; one must be a lab course:

Biology 3, 4

Chemistry or Physics 3, 4

Astronomy, Geology or Meteorology 3, 4

Interdisciplinary 3

Health/Physical Education 3

ID 1225 Issues Contemporary Health 3

OR

ID 1010 Leisure & Recreation in Multicultural Society 3

MAJOR/GE CAPSTONE COURSE 3
 COMM 4962 Communication Research Seminar 3

ADDITIONAL REQUIREMENTS 3
 ID 2415 Group Communication 3

ACADEMIC MAJOR 45

REQUIRED CORE I 12
 COMM 2405 Public Speaking 3
 COMM 2503 Mass Media 3
 COMM 3510 Persuasive Communication 3
 COMM 3720 Communication and Media Theory 3

REQUIRED CORE II 18
 COMM 2403 Production Foundations 3
 COMM 2920 Intro to Journalism 3
 COMM 3660 Public Relations 3
 COMM 3920 Specialty Writing for the Web 3

OR
 COMM 3915 Feature Writing 3
 COMM 4620 Public Relations Writing 3
 COMM 4640 Public Relations Cases 3

COMMUNICATION ELECTIVES 15
 Choose any 5 COMM courses

FREE ELECTIVES: 27-28
 At least 50% must be 3000/4000 level
 Students should not take COMM courses as free electives

TOTAL 124
Special Notes

*General Education Required Course
¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).
² A grade of "C" or better is required.
³ Not required of students with a second major, minor or collateral.

MINOR IN COMMUNICATION

REQUIRED GENERAL EDUCATION PREREQUISITE 3
 COMM 1402 Speech Communication as Critical Citizenship 3

COURSES FOR MINOR 18
Required Courses 9
 ID 2415 Group Communication 3
 COMM 3720 Communication and Media Theory (WE) 3
 COMM 3510 Persuasive Communication 3
Required Course Option 3
 Select one course from:
 COMM 2405 Public Speaking 3
OR
 COMM 2920 Introduction to Journalism 3

Additional Elective Courses 6
 Two Communication courses at 3000-4000 level after consultation with advisor

TOTAL 18

MINOR IN SOCIAL MEDIA

REQUIRED GENERAL EDUCATION PREREQUISITE 3
 COMM 1402 Speech Communication as Critical Citizenship 3

COURSES FOR MINOR 18
Required Course
 COMM 3533 Social Media 3
Required Course Option 6
 Select two courses from:
 COMM 2503 Mass Media 3
 COMM 2920 Introduction to Journalism 3

OR
 COMM 3660 Public Relations 3
Select three courses from the following: 9
 COMM 2403 Production Foundations 3
 COMM 3917 Sports Writing 3
 COMM 3920 Specialty Writing for the Web 3
 COMM 3675 Media Advertising 3
 COMM 3915 Feature Writing 3
 COMM 4620 Public Relations Writing 3
 COMM 3003 Media Journalism 3
 COMM 3503 Media Criticism 3
 COMM 3910 Advanced Journalism 3
 COMM 2503 Mass Media* 3
 COMM 2920 Introduction to Journalism* 3
 COMM 3660 Public Relations* 3

*Courses may not be repeated if taken in Section 2

TOTAL 18

COMMUNICATION COURSES

COMM 1401 Honors Course in Speech Communication as Critical Citizenship (3)
 Understanding, practicing and monitoring speech communication as a message centered activity. (E3)
 Alternative for COMM 1402. Credit not granted for taking both COMM 1401 and COMM 1402
Prerequisite: 3.0 grade point average or letter of recommendation

COMM 1402 Speech Communication as Critical Citizenship (3)
 Understanding and practicing speech communication as a central value of a civil society. It is this value that provides the frame for producing, presenting, interpreting and evaluating oral messages in dyadic, small group, and public speaking contexts. (E, SSI, SSII)
 General Education Foundations Course
Prerequisite: Qualification for the 3-contact-hour ENG 1030 or completion ENG 1030 and COMM SCI 0412 requirements.

COMM 2405 Public Speaking (3)
 Analysis, preparation and delivery of messages through public presentation. (E, SSI)
Prerequisite: COMM 1402 or permission of instructor.

COMM 2410 Debate (3)
 A study of reasoning, evidence, proof and formal debate. (SP)
Prerequisite: COMM 1402.

COMM 2425 Interpersonal Communication (3)
 Communication theories applied to our experience in interaction with ourselves and others. (E)
Prerequisite: COMM 1402.
Writing Emphasis Course

COMM 3216 International Business Communication (3)
 This course provides students with an understanding of business cultures and communication practices globally; in multinational organizations and in different countries. It prepares students to communicate effectively in an international/cross-cultural business environment. (FA)
Prerequisite: COMM 1402

COMM 3410 Voice and Speech (3)
 Voice and speech improvement, treating the voice as an animate, subjective, living phenomenon. (SP)
Prerequisite: COMM 1402.

COMM 3420 Interviewing (3)
 The interview as a communication technique for gathering and providing information in order to meet a variety of personal, strategic and professional needs. Focus on both theoretical and practical principles of interviewing. Emphases include informative and persuasive interviews in diverse settings such as, medical, news gathering, employment, recruitment, appraisal, research, sales, and counseling interviews. (E, SSI)
Prerequisite: COMM 1402

COMM 3425 Nonverbal Communication (3)
 An examination of the concepts of nonverbal communication including the study of space, touch, body movements, as well as facial and vocal expression. Emphasis on integrating theory and research of nonverbal communication. (SP)
Prerequisite: COMM 1402.

COMM 3430 Family Communication (3)
 An examination of the influence communication plays in defining and shaping family interaction and family members roles and rules. Emphasis on integrating theory with personal experience of family communication. (FA)
Prerequisite: COMM 1402

COMM 3510 Persuasive Communication (3)
 Examination of the nature of persuasion in human interaction situations. (E, SSII)
Prerequisite: COMM 1402.

COMM 3520 Organizational Communication (3)
 An introduction to traditional and contemporary theories as well as a survey of the current organizational communication literature. Emphasis on integrating organizational communication theory and research. (E)
Prerequisite: COMM 1402.

COMM 3523 Reality TV (3)
Examination of the television genre, reality television. A look at the categories, shows, sociological messages, financial backing, consumption messages, audience interaction, global dominance, and media coverage through the perspective of different media theories. (FA)

COMM 3525 Communication and Conflict Resolution (3)
Analysis of communication messages that create, build, maintain and resolve conflict on an interpersonal or societal level. (E)
Prerequisite: COMM 1402.

COMM 3530 Communicating Across Cultures (3)
Exploration of theories and methods of communication competence and communication effectiveness in intercultural situations. (FA)
Prerequisite: COMM 1402 or permission of instructor.

COMM 3533 Social Media (3)
Examination of social media, including: categorization of sites, sociological messages, financial backing, consumption messages, user interaction, global influence, and media coverage through the perspective of varied media theories. (SP)

COMM 3570 Cinema as Cross-Cultural Communication (3)
A study of cultural diversity as presented in cinema from different countries. (FA)
Prerequisite: COMM 1402.

COMM 3590 Business and Professional Communication (3)
An introduction to the principles, practice and importance of oral presentations within business and professional settings. Application of presenting informative and persuasive reports and research. (E, SSI)
Prerequisite: COMM 1402.

COMM 3630 Gender, Language and Communication (3)
Students analyze different communication processes and behaviors that create and recreate gender roles and ideals for both women and men. (FA, SSII)
Prerequisites: COMM 1402.

COMM 3633 Inside TV (3)
Examination of issues or topics in media that relate to the production, business, operation or analysis of the television industry. (E)
Prerequisites: COMM 2503 (MED 2500) or permission of instructor.

COMM 3660 Public Relations (3)
An introduction to public relations, including examination of the principles and practices of the field. (E)
Prerequisite: COMM 1402.

COMM 3660 SL Public Relations: Service Learning (1)
Application of public relations principles and techniques through volunteer activities at a non-profit organization. Credit for this course will only count as a free elective; it may not be applied as a major elective. (E3)
Prerequisite: Must be taken in conjunction with COMM 3660.

COMM 3675 Media Advertising (3)
An examination of the concepts and processes of media advertising focusing on the economic, regulatory, global and social forces that impact on the management of advertising campaigns in radio, television, cable and telecommunication industries. Students will complete a three part advertising campaign. (E)

COMM 3690 Health Communication (3)
Health care delivery as a communication system and development of abilities as communicators within the system. (E3)

COMM 3700 Community Building and Advocacy (3)
Study of organizing community members and groups to bring about social change through effective use of communication skills and practices. Persuasive strategies for planning, implementation and evaluation of advocacy campaigns. (E3)
Prerequisites: COMM 1402

COMM 3720 Introduction to Communication and Media Theory (3)
Introduction to communication and media theories. Students will be introduced to the fundamental theories of the Communication discipline. This course is foundational in preparing students for core advanced classes in the Communication Department. (E, SSI)
Writing Emphasis Course

COMM 3960 Topics in Communication (3)
Examination of issues and developments in communication theory, research and practice. May be repeated for credit if topic is different. (E)
Prerequisite: COMM 1402 or permission of instructor.

COMM 3970 Political Communication (3)
An examination of the uses and effectiveness of a range of communication strategies and tactics to achieve political standing in American society. Social consequences of those strategies and tactics are investigated. (FA)
Prerequisites: Comm 1402 or permission of instructor

COMM 3975-3977 Communication Practicum: Independent Study (1, 2, 3)
An individualized course focusing on a specific aspect of production. Emphasis placed on practical application of technical, performance or writing skills communication. (E, SSI, SSII)
Prerequisites: permission of instructor.

COMM 4200 Environmental Communication (3)
An investigation of relational and symbolic ways we construct environmental communication in rhetorical, legal, and advocacy discourse in interpersonal, organizational, and cultural practices. *Prerequisites: COMM 1402 or permission of instructor*

COMM 4204 Communication Ethics (3)
An exploration of the communication-ethics connection with implications for understanding and evaluating the quality of personal and professional relationships within society. (FA)
Prerequisite: COMM 1402 or permission of instructor

COMM 4208 Event Planning and Management (3)
Examines the role of communication in professional event planning, management and development. Events for both business and nonprofit sectors are considered. Course focus includes event appropriateness, theme, tasks, responsibilities, budget, and promotion. Students will organize and participate in several local events. (E)
Prerequisites: Comm 1402 or permission of instructor

COMM 4350 Consulting and Training in Communication (3)
Examination of the theories, principles, models, and practices in communication consulting and training programs. Emphasis on practical application including research, needs, programs, training and development sessions, and program evaluation. (E)
Prerequisite: COMM 1402 or permission of instructor

COMM 4510 Communication and Popular Culture (3)
The study of contemporary rhetorical tools of criticism as applied to ideological messages in speech, art, music, television, radio and drama. (E3)
Prerequisite: COMM 1402.

COMM 4520 Communication and Technology (3)
An examination of new technology's impact within various communication contexts. (E3)
Prerequisite: COMM 1402.

COMM 4610 Communication and Law (3)
An examination of the communication of lawyers, judges, litigants and jurors in the criminal and civil justice system. Survey of communication as it applies to the legal context. (E3)
Prerequisite: COMM 1402.

COMM 4615 Communication and Mediation (3)
The practical training and theoretical understanding of mediators and mediation. Understanding the tradition, history, and theory behind mediation, as well as implications of/for alternative dispute resolution, and practical, hands-on training in the communication processes of mediation. (FA)
Prerequisite: Junior standing or permission of instructor

COMM 4620 Public Relations Writing (3)
Preparing written public relations material and portfolio. (E)
Prerequisite: COMM 3660.

COMM 4625 Communication and Negotiation (3)
Communication skills to negotiate personal, community, and high stakes disputes. Constructive problem solving approaches to find solutions to meet the needs of all disputants. (SP)
Prerequisite: Junior standing or permission of instructor.

COMM 4640 Public Relations Cases (3)
Analyses of effective public relations principles in a legal and ethical context. (E)
Prerequisite: COMM 3660.

COMM 4880 Travel Learn: Organizational Leadership Across Cultures (3)
Educational tour of a designated country, with emphasis upon learning through supervised on-site experience visiting with leaders in corporations, government, nongovernmental organizations, nonprofit organizations, and/or cultural institutions. Tour duration approximately seven to 15 days; destination and travel costs will vary. May be used as a free elective. May be repeated once for credit if the destination is different. (E3)
Prerequisite: COMM 1402

COMM 4955, 4956 and 4957 Cooperative Education: Work Study in Communication (3, 6, and 12)
Supervised placement in an employment position utilizing background in Communication. COMM 4955 and COMM 4956 may be repeated for credit. A maximum of twelve (12) credit hours in cooperative education may be applied toward the B.A. Degree. (E, SSI, SSII)
Prerequisites: Minimum of 24 credit hours in Communication courses, approval of advisor in Communication and a 3.0 GPA.

COMM 4962 Communication Research Seminar (3)
Advanced level research course that integrates learned theoretical knowledge with methods to prepare students for skills needed as a communication specialist. Qualitative and quantitative research tools will be learned. Students will create original research papers. (E)
Prerequisite: At least 90 credits toward graduation and completion of all core communication requirements or permission of instructor.

COMM 3522 Sight, Sound, Motion (3)
An examination of film/video as artistic expression, including lighting, sound, camera angle, editing, effects, etc. using films or excerpts of films as example. (E)
Equivalents: COMM 2502, FILM 2500

COMM 3612 Film History I (3)
A survey course in the historical development of the American film industry up to 1980. An analysis of themes, aesthetic standards, and societal influence of film as business and art. (E)
Equivalents: COMM 2602, FILM 2600

COMM 3002 Film Theory (3)
A survey of film: Students will examine the major film theories through film screenings and related lectures and discussion. (SP)
Prerequisite: COMM 2502
Equivalent: FILM 3000

COMM 3102 Film Production I (3)
Students will write, produce, direct and edit short film exercises in order to learn the basic techniques of filmmaking through digital video. (FA)
Prerequisites: COMM 2403
Equivalent: FILM 3100

COMM 3202 International Film (3)
International and multicultural contributions to the art of film examined through screenings and lectures. (E3)
Prerequisites: COMM 3612 or COMM 2602
Equivalent: FILM 3200

COMM 3302 Documentary Film (3)
Introduction to the genre and production of documentary films. Emphasis on production skills, including idea generation, scripting, camera operation, sound gathering and digital editing with the style and format of documentary storytelling. (E3)
Prerequisite: COMM 2403, COMM 3522 or COMM 2502
Equivalent: FILM 3300

COMM 3402 Film History II (3)
Examination of the development of the film industry in America since the 1970s, including the history, changing business patterns and digital impact. Also a look at the major directors and actors and some of their best work of our time and the independent film industry. (SP)
Equivalent: FILM 3400

COMM 3502 Film Production II (3)
Film workshop emphasizes techniques of film writing, producing, directing, editing, lighting and sound, at an advanced level. (SP)
Prerequisites: COMM 3102
Equivalent: FILM 3500

COMM 3602 Scriptwriting (3)
Develop and understand film and television script formats, and learn the techniques to write scripts for different genres. Also a brief introduction to the writers' marketplace, fees and contracts. (E, SSI)
Equivalent: FILM 3600

COMM 3902 Animation I (3)
Basic film animation techniques using computer software programs. (FA)
Equivalent: FILM 3900

COMM 4002 Topics in Film (3)
Examination of issues and developments in film theory, research and practice. May be repeated for credit if the topic is different. (E)
Prerequisite: COMM 3522 or COMM 2502
Equivalent: FILM 4000

COMM 4102 Film Editing (3)
Film Editing is a hands on non-linear editing course for basic editing such as montage, linear, and post-modern editing techniques. (SP)
Prerequisite: COMM 3102
Equivalent: FILM 4100

COMM 4902 Animation II (3)
Advanced film animation using computer software programs. (SP)
Prerequisites: COMM 3902
Equivalent: FILM 4900

INTERDISCIPLINARY COURSE

ID 2415 Group Communication (3)
This course focuses on both theory and practice of small group communication, leadership, and an analysis of the theory and process involved in group problem solving and decision making. Topics for discussion relate to current events within the areas of politics, sociology, history, psychology, and communication.. (E, SSI, SSII)

JOURNALISM COURSES

COMM 2920 Introductory Journalism (3)
Instruction and practice in basic journalistic techniques, with an emphasis on developing news judgment, interviewing, and writing the inverted pyramid story with a "5-W" lead. (E, SSI)

COMM 3280 News Literacy (3)
Analysis of the role of the American news media and the forces that influence news coverage, with an emphasis on developing skills to judge the credibility of news reports and news sources in an age of rapidly changing technology. (SP)
Prerequisites: ENG 1030 or equivalent

COMM 3780 Tower Practicum (1)
Students will work on the campus newspaper writing stories and learning the production of a newspaper. Course can be repeated up to six times. (E)
Prerequisites: COMM/ENG 2920 and permission of instructor

COMM 3781 Tower Editor Practicum (3)
Student will be the editor of the campus newspaper and learn management skills. Can be repeated twice. (E)
Prerequisites: COMM/ENG 2920 and permission of instructor

COMM 3910 Advanced Journalism (3)
Instruction and practice in advanced journalistic techniques, with an emphasis on such specialized areas of coverage as business, science education, and arts and entertainment. (E)
Prerequisites: COMM 2920 or permission of instructor.

COMM 3915 Feature Writing (3)
Instruction and practice in the principles of writing feature articles for newspapers and magazines, with emphasis on style, organization, and human interest. (SP)
Prerequisite: COMM/ENG 2920

COMM 3917 Sports Writing (3)
Instruction and practice in writing sports stories for newspapers and magazines. (E)
Prerequisites: COMM 2920 or permission of instructor.

COMM 3920 Specialty Writing on the Web in Journalism (3)
Instruction and practice in writing specialty articles for newspapers, such as cultural reviews, editorials and opinion articles, news analyses, business stories, and science stories. (SP)
Prerequisite: COMM 2920 or COMM 3915 or permission of instructor.

COMM 3925 Editing Skills in Journalism (3)
Instruction and workshop in the principles and practice of editing newspapers and magazines. Includes newsroom administration. (E)
Prerequisite: COMM 2920 or COMM 3910 or permission of instructor.

COMM 2403 Production Foundations (3)
Students learn the basic skills of production including camera operation, lighting, sound and the basics of Final Cut Pro.
Equivalent: MED 2400

COMM 2503 Mass Media (3)
The development and effects of mass media in America. (E)
Equivalent: MED 2500

COMM 2603 Audio Production (3)
Introduction to the basic techniques of audio production and radio station operations. (E)
Prerequisite: COMM 2403
Equivalent: MED 2600

COMM 2703 Media Performance (3)
Radio and television announcing and performance techniques. (E)
Equivalent: MED 2700

COMM 3813 Video Field Production (3)
The focus of this course is single camera television production. The goal is to learn the skills necessary for the types of programs that students will encounter in field productions for digital broadcast, cable, and corporate production companies. (E)
Prerequisite: COMM 2403
Equivalents: COMM 2813, MED 2800

COMM 3913 TV Studio Production (3)
The focus of this course is multi-camera studio production. The goal is to simulate the types of programs that students will encounter in studio productions for digital broadcast, cable, and corporate production companies. (SP)
Prerequisite: COMM 2403
Equivalents: COMM 2903, MED 2900

COMM 3003 Media Journalism (3)
Practical application, television and new media journalism techniques, and the handling of news and information in society. (E)
Prerequisite: COMM 2920
Equivalent: MED 3000

COMM 3053 News Directing & Editing (3)
News directing and editing for live television production. This is a lab course to produce live television programming, and examine the various components of news producing. (FA)
Prerequisite: COMM 3003 and COMM 3913 or COMM 2903
Equivalent: MED 3052

COMM 3103 Media Advertising and Sales (3)
An examination of the concepts and processes of media advertising focusing on the economic, regulatory, global and social forces that impact the management of advertising campaigns in the radio, television, cable, and telecommunication industries. (E3)
Prerequisite: COMM 2503
Equivalent: MED 3100

COMM 3503 Media Criticism (3)
An examination of the concepts and processes of media ethics. A complete look at the technological, economic, regulatory, global and social forces that impacts the daily production of media content focusing on the print, radio, television, cable, and telecommunication industries. (E3)
Prerequisite: COMM 2503
Equivalent: MED 3500

COMM 3603 Topics in Media (3)
Examination of issues or topics in media that relate to the production, business, operation or analysis of the entertainment or news media industry. Generally taught by working media executives. May be repeated for credit if the topic is different. (E)
Prerequisite: COMM 2503 or permission of instructor.
Equivalent: MED 3600

COMM 3613 International Comparative Media (3)
An international comparative study of broadcast media systems around the world. Students will learn about broadcasting in selected countries and how international media affects their culture. (E3)
Prerequisite: COMM 2503
Equivalent: MED 3610

COMM 3623 International News (3)
The study of international news and international news organizations and services. (E3)
Prerequisite: COMM 3003 (MED 3000)
Equivalent: MED 3620

COMM 3703 Broadcast Feature (3)
Students will write, analyze, produce, direct and edit short broadcast feature pieces in a variety of news and information formats. (E3)
Prerequisite: COMM 3003
Equivalent: MED 3700

COMM 3903 Feature Production Company (3)
Production of Broadcast features. Student production companies will produce and direct advanced level broadcast features in a variety of formats. (E3)
Prerequisite: COMM 3703
Replaced MED 3902

COMM 4003 Advanced Broadcast Writing (3)
The focus of this course is an advanced level of broadcast writing in a variety of formats. It will simulate the types of writing assignments that students will encounter in productions for corporate, broadcast, cable TV and TV film companies. (E3)
Prerequisite: COMM 3003 or MED 3000
Equivalent: MED 4000

COMM 4503 Media Management (3)
An examination of the concepts and processes of media management, examining the technological, economic, regulatory, global and social forces that impact the management of the radio, television, cable, and telecommunication industries. (E3)
Prerequisite: COMM 2503
Equivalent: MED 4500

COMM 4813 Advanced Digital Media (3)
A workshop course designed to integrate principles and practices of electronic media communication. Students will prepare and present digital media productions. (E3)
Prerequisites: COMM 3813 or COMM 2803 or COMM 3913 or COMM 2903
Equivalent: MED 4810

COMM 4903 Production Company II (3)
Production of Broadcast quality audio or video projects, through student production companies. May be repeated if topic is different. (E3)
Prerequisite: COMM 3913 or COMM 3903, COMM 2403
Replaced MED 4902

The School of English Studies

Dr. Charles Nelson, Executive Director

CAS 301 (908) 737-0370

The English major offers study in writing, linguistics, and literature (including foreign literature in English translation). It also includes opportunities for internships in publishing, professional writing, and journalism. The major is designed to provide a basis for a number of career paths: for graduate study in English, law, or journalism; for secondary school teaching; and for communications-oriented careers in business, the arts, and the community.

The English minor allows students to design their own **English** programs in order to complement their primary majors or interests.

NOTE: *College Composition (any version or equivalent) is a prerequisite for all ENG 2000, 3000, and 4000 level courses. English 2403, World Literature, is a prerequisite for all 2000, 3000, and 4000 level Literature courses.*

For more information about College of HSS programs, please see:

<http://www.kean.edu/academics/college-humanities-and-social-sciences>

B.A. DEGREE

OPTION: STANDARD (LITERATURE)

GENERAL EDUCATION 43-45

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean* 1

OR

GE 3000 Transfer Transitions* 1

ENG 1030 Composition, or equivalent** 3

MATH 1010 Foundations of Math 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2023 Research and Technology 3

*University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

**Minimum grade of C required

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 30-32

Humanities 9

ENG 2403 World Literature 3

Select two courses from different areas below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages (Must take I and II for credit) 3

Music or Theater 3

Interdisciplinary 3

Social Sciences 9

HIST 1062 Worlds of History 3

Select two courses from different areas below:

Psychology 3
Economics or Geography 3
Political Science 3
Sociology or Anthropology 3

Interdisciplinary 3

Science and Mathematics 10-11

Math or Computer Science 3

Select two courses (at least one a lab course) from different areas below:

Biology 3,4

Chemistry or Physics 3,4

Astronomy or Earth Science or Geology or Meteorology 3,4

Interdisciplinary 3,4

Health/Physical Education 2-3

ID 1225 Issues in Contemporary Health 3

OR

ID 1010 Leisure & Recreation in Multicultural Society 3

OR

Physical Education 2

MAJOR REQUIREMENTS 39

ENG 2000 Writing about Literature* 3

ENG 2101 Structure and Origins of the English Language ** 3

ENG 2205 British Literature I *** 3

ENG 2206 British Literature II *** 3

ENG 2220 Diverse Traditions and Voices of American Literature I *** 3

ENG 2221 Diverse Traditions and Voices of American Literature II *** 3

ENG 3215 Shakespeare Survey *** 3

ENG 3001 Critical Approaches to Literature **** 3

* This course should be taken at the very beginning of the major.

** Students passing a departmental challenge test in linguistics may substitute any upper-level linguistics elective for this course.

*** Survey courses should be taken before upper-level major electives.

**** Critical Approaches should be taken after completion of survey courses and prior to enrollment in major electives.

ENGLISH ELECTIVES 12

(Must include 9 credits at the 3000 or 4000 levels.)

MAJOR/GE CAPSTONE COURSE

ENG 4800 Senior Seminar (WE) 3

Petition required. Students must complete all major requirements and all but one major elective prior to enrollment in Senior Seminar

FREE ELECTIVES 40-42

At least 50% must be at 3000 or 4000 levels. No English courses may be used as free electives by English majors.

TOTAL 124

B.A. DEGREE

OPTION: WRITING

GENERAL EDUCATION 43-45

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean* 1

OR

GE 3000 Transfer Transitions* 1

ENG 1030 Composition, or equivalent ** 3

MATH 1010 Foundations of Math 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2023 Research and Technology 3

*University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

**Minimum grade of C required.

DISCIPLINARY/INTER-DISCIPLINARY DISTRIBUTION REQUIREMENTS 30-32

Humanities 9

ENG 2403 World Literature 3

Select two courses from different areas below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages (Must take I and II for credit) 3

Music or Theater 3

Interdisciplinary 3

Social Sciences 9

HIST 1062 Worlds of History 3

Select two courses from different areas below:

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science and Mathematics 10-11

Math or Computer Science 3

Select two courses (at least one a lab course) from different areas below:

Biology 3,4

Chemistry or Physics 3,4

Astronomy or Earth Science or Geology or Meteorology 3,4

Interdisciplinary 3,4

Health/Physical Education 2-3

ID 1225 Issues in Contemporary Health 3

OR

ID 1010 Leisure & Recreation in Multicultural Society 3

OR

Physical Education 2

MAJOR REQUIREMENTS 39

REQUIRED: FOUNDATION CORE 18

ENG 2010 Creative Writing 3

ENG	2020	Writing	3
ENG	2101	Structure and Origins of the English Language***3	
ENG	3020	Rhetoric in Writing	3
ENG	3029	Research in Language and Literature	3
ENG	3080	Writing for Cyberspace	3

*** Students passing a departmental challenge test in linguistics may substitute any upper level linguistics elective for this course.

ENG ELECTIVES (18 S.H.)

9 must be in one of the three areas of concentration at the 3000 or 4000 level; remaining courses must include one course from each of the two remaining areas of concentration and may include literature courses)

AREAS OF CONCENTRATION:

Composition Studies

ENG	2005	Advanced Composition	3
ENG	2021	Writing Process	3
ENG	3005	Introduction to Writing Studies: Writing about Writing (prereq. ENG 2020 or 2101)	3
ENG	3021	Cultural Rhetorics and Writing	3
ENG	3030	Writing Arguments	3
ENG	3035	Literacy Studies (prereq. ENG 2020)	3
ENG	3070	Coaching Writing Across the Disciplines (prereqs: Grade of B+ or higher in ENG 1030 or equiv.; Grade of B or higher in GE 2023 or equiv.; or permission of instructor; and overall GPA of 3.0 or higher)	3
ENG	4002	Research Methods in Composition (prereq. ENG 3029)	3
ENG	4030	Reading and Writing Race and Ethnicity (prereq. ENG 2000, ENG 2020, or instructor permission)	3
ENG	4040	New Literacy Studies and Ethnography (prereq. ENG 3029 or ENG 3005)	3
ENG	4060	Topics in Rhetoric and Writing Studies (prereq. ENG 3029)	3
ENG	4070	Peer Tutoring and Writing Center Practice (prereq. ENG 2005 or instructor permission)	3
ENG	4100	Second Language Writing: Theory and Practice	3
ENG	4120	Language Variation in Society (prereq. GE 2020 or equivalent course)	3
<i>Creative Writing</i>			
ENG	3000	Writing Poetry	3
ENG	3010	Playwriting	3
ENG	4000	Advanced Writing Poetry (prereq. instructor's permission)	3

ENG	4005	Writing Fiction	3
ENG	4017	Creative Nonfiction (prereq. at least one English course at 3000-level)	3
ENG	4050	Writing Literature for Children and Young Adults (prereq. one 3000-level English elective)	3
ENG	4081	Introduction to Electronic Literature (prereq. ENG 3080 or instructor's permission)	3

Writing in the Professions/Disciplines

ENG	2000	Writing About Literature (prereq. ENG 2403)	3
ENG	2920	Introductory Journalism	3
ENG	3031	Writing in the Humanities (prereq. ENG 1030 or equivalent and GE 2020 or equivalent)	3
ENG	3041	Writing in the Social Sciences (prereq. ENG 1030 or equivalent and GE 2020 or equivalent)	3
ENG	3090	Business and Professional Writing (prereq. ENG 2403 or equivalent)	3
ENG	3091	Technical Writing (prereq. ENG 1030 or equivalent)	3
ENG	3910	Advanced Journalism (prereq. ENG 2920 or instructor's permission)	3
ENG	3915	Feature Writing	3
ENG	3917	Sports Writing (prereq. ENG 2920 or instructor's permission)	3
ENG	3920	Specialty Writing in Journalism (prereq. ENG 2920 or ENG 3915 or instructor's permission)	3
ENG	3925	Editing Skills in Journalism (prereq. ENG 2920 or ENG 3910 or instructor's permission)	3
ENG	4090	Collaborative Writing at Work (prereq. ENG 3090 or ENG 3091 or instructor's permission)	3
ENG	4093	Technical Editing (prereq. ENG 3090 or ENG 3091 or instructor's permission)	3
ENG	4805, 4806	Publishing Field Experience (prereq. Selection by English Department and instructor)	3 or 6

MAJOR GE/CAPSTONE COURSE

ENG	4817	Senior Seminar WE	3
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Petition required. Students must complete all major requirements and all but one major elective prior to enrollment in Senior Seminar

FREE ELECTIVES 40-42 S.H.

At least 50% must be at 3000/4000 levels. No English courses may be used as free electives by English majors.

TOTAL 124

B.A. DEGREE

OPTION: ENGLISH IN GLOBAL SETTINGS

The B.A. in English: English in Global Settings Option provides students with an intensive English experience that will prepare them to use English in various international settings, including English in educational, community and corporate international settings with non-English speakers. The English in Global Settings Option does not lead to New Jersey Teacher Certification.

G.P.A. of 2.5 or higher required for graduation.

GENERAL EDUCATION 43-45 S.H.

FOUNDATION REQUIREMENTS 13 S.H.

G.E.	1000	Transition to Kean*	1
OR			
GE	3000	Transfer Transitions*	1
ENG	1030	Composition **	3
MATH	1000; 1010; 1016; 1030; 1044;	or 1054	3
COMM	1402	Speech Communication	3
GE	2023	Research & Technology	3

DISCIPLINARY & INTERDISCIPLINARY

DISTRIBUTION REQUIREMENTS 30-32

Humanities 9 S.H.

ENG	2403	World Literature	3
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Select two courses from different areas below:

Fine Arts/Art History	3
Philosophy or Religion	3
Foreign Languages (Must take I & II for credit)	3
Music or Theatre	3
Interdisciplinary	3

Social Sciences 9 S.H.

HIST	1062	Worlds of History	3
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Select two courses from different areas below:

Psychology	3
Economics or Geography	3
Political Science	3
Sociology or anthropology	3
Interdisciplinary	3

Science and Mathematics: 10-11S.H.

MATH or Computer Science	3
Lab Science	4
Biology; Chemistry; Physics; Geology; Meteorology; Earth Science; Astronomy	

Additional Science course from above list or Interdisciplinary 3-4

Health/Physical Education 2-3 S.H.

ID	1225	Issues Contemporary Health	3
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OR

Physical Education (two 1 credit courses) 2

MAJOR REQUIREMENTS**** 39 S.H.

MAJOR FOUNDATION CORE 18 S.H.

ENG	2101	Structure and Origins of English Language ***	3
ENG	2021	Writing Process	3
ENG	3101	Intro to Linguistics	3
ENG	3021	Cultural Rhetorics and Writing	3
ENG	3029	Research in Language and Literature	3
ENG	3080	Writing for Cyberspace	3

MAJOR ELECTIVES** 18 S.H.**

Choose any six English writing, journalism, or linguistics courses. At least 9 credits must be at the 3000 or 4000 level.

CAPSTONE EXPERIENCE 3 S.H.

ENG	4817	Senior Seminar	3
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Petition required. Students must complete all major English requirements and all but one of their six required English major electives prior to enrollment in Senior Seminar

ADDITIONAL REQUIREMENTS******COMMUNICATION COURSES: 6 S.H.**

COMM	3590	Business and Professional Communication	3
COMM	3530	Communication Across Cultures	3

FREE ELECTIVES 30-32 S.H.

At least 50% must be at 3000/4000 levels. No English courses may be used as free electives by English majors.

TOTAL 120**Special Notes:**

**University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).*

***G.E. required course (minimum Grade of C required).*

****Students passing a departmental challenge test in Linguistics may substitute any upper-level linguistics elective for this course.*

*****Minimum grade of C required in all Major courses; and in COMM3590, COMM 3530*

G.P.A. of 2.5 or higher required for graduation.

B.A. DEGREE**OPTION: TEACHER CERTIFICATION**

The following program meets State standards for teacher certification in English P-12. Students choosing this option must apply to both the English Department and the Department of Middle and Secondary Education. For all transfers and new admissions to the University starting September 1, 2012, a G.P.A. of 3.00 is required for admission to the Program.

GENERAL EDUCATION 43-45**FOUNDATIONS REQUIREMENTS 13**

GE	1000	Transition to Kean*	1
OR			
GE	3000	Transfer Transitions*	1
ENG	1030	Composition, or equivalent**	3
MATH	1000**	Algebra for College Students or equivalent	3
COMM	1402	Speech Communication as Critical Citizenship	3
GE	2023	Research and Technology	3

**University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)*

OR GE 3000 (transfers entering with 30 credits or more).

***A grade of B- is required in ENG 1030 (or its equivalent) and COMM 1402. A grade of C or better is required in Math 1000.*

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 30-32

Humanities	9
ENG 2403 World Literature	3
Select two courses from different areas below:	
Fine Arts or Art History	3
Music or Theater	3
Philosophy or Religion	3
Foreign Languages (Must take I and II for credit)	3
Interdisciplinary	3
Social Sciences	9
HIST 1062 Worlds of History	3:
PSY 1000 General Psychology (prereq. for PSY 2110)	3

Select one course from one area below:

Economics or Geography	3
Political Science	3
Sociology or Anthropology	3
Interdisciplinary	3
Science and Mathematics	10-11
MATH 1010; 1016; 1030; or 1054	3

Select two courses (at least one a lab course) from different areas below. Lab course must be completed with a grade of C or better.

Biology	3,4
Chemistry or Physics	3,4
Astronomy or Earth Science or Geology or Meteorology	3,4
Interdisciplinary	3,4
Health/Physical Education	3

ID 1225 Issues in Contemporary Health	3
Additional Requirements	9
COMM 2405 Public Speaking	3
ID 2955 Disabled Persons in American Society	3
PSY 2110 Psychology of Adolescence	3

ACADEMIC MAJOR REQUIREMENTS* 39

ENG	2000	Writing about Literature**	3
ENG	2101	Structure and Origins of the English Language ***	3

ENG	2205	British Literature I****	3
ENG	2206	British Literature II****	3
ENG	2220	Diverse Traditions and Voices of American Literature I****	3
ENG	2221	Diverse Traditions and Voices of American Literature II****	3
ENG	3215	Shakespeare Survey****	3
ENG	3001	Critical Approaches to Literature*****	3
ENG	3255	Young Adult Literature	3

**A maximum of two C's is permitted in all English courses other than ENG 1030 (or its equivalent). All other grades in English must be at least a B-.*

***This course should be taken at the very beginning of the major.*

****Students passing a departmental challenge test in linguistics may substitute any upper-level linguistics elective for this course.*

***** Survey courses should be taken before upper-level major electives.*

****** Critical Approaches should be taken after completion of survey courses and prior to enrollment in major electives.*

ENGLISH ELECTIVES 9

(Must include 6 hours at the 3000 or 4000 levels.)

MAJOR/GE CAPSTONE COURSE

ENG	4800	Senior Seminar WE	3
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Petition required. Students must complete all major requirement and all but one of the major electives prior to enrollment in Senior Seminar.

PROFESSIONAL EDUCATION REQUIREMENTS 30

(A passing score on the Praxis I exam is required for admission into the secondary education program. A grade of B- or better is required for all professional education courses with the exception of EMS 3801 and EMS 4801, which require a grade of Satisfactory).

Sophomore Level

EMS	2801	Introductory Field Experience	3
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Junior Level

EDUC	3000	Curriculum, Evaluation, and the Learner	3
EDUC	3401	Language Arts/Reading in P-12 Subject Area Teaching	3
EMSE	3122	Computers in Education	3
EMSE	3210	English Education P-12. Must be taken in same semester as EMSE 3801	3
EMSE	3801	Junior Field Experience. Must be taken in same semester as EMSE 3210	2
EMSE	3903	Teaching ELL*	1

** This course should be taken with EMSE 3801*

EMS	4801	Professional Internship (prereq. passing score on appropriate Praxis II exam)	9
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Professional/GE Capstone Course	
EDUC 4000 Teacher and Classroom	3
FREE ELECTIVE	3
TOTAL	124

B.A. DEGREE

OPTION: DUAL CERTIFICATION/ TEACHER OF STUDENTS WITH DISABILITIES, P-12

The following program meets State standards for dual teacher certification in English, P-12. Students choosing this option must apply to both the English Department and the Special Education & Literacy Department. For all transfers and new admissions to the University starting September 1, 2012, a G.P.A. of 3.00 is required for admission to the Program.

GENERAL EDUCATION 44-45

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean*	1
OR	
GE 3000 Transfer Transitions*	1
ENG 1030 Composition, or equivalent**	3
MATH 1000 Algebra for College Students or equivalent**	3
COMM 1402 Speech Communication as Critical Citizenship**	3
GE 2023 Research and Technology	3

*University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

**A grade of B- or better is required for ENG 1030 (or its equivalent), Math 1000, and COMM 1402.

DISCIPLINARY/INTER-DISCIPLINARY DISTRIBUTION REQUIREMENTS 30-32

Humanities	9
ENG 2403 World Literature	3
Select two courses from different areas below:	
Fine Arts or Art History	3
Music or Theater	3
Philosophy or Religion	3
Foreign Languages (Must take I and II for credit)	3
Interdisciplinary	3
Social Sciences	9
HIST 1062 Worlds of History	3
PSY 1000 General Psychology (prereq. for PSY 2110)	3
Select one course from one area below:	
Economics or Geography	3
Political Science	3
Sociology or Anthropology	3
Interdisciplinary	3
Science and Mathematics	10-11
MATH 1010; 1016; 1030; or 1054	3
Select two courses (at least one a lab course) from different areas below:	

Biology	3,4
Chemistry or Physics	3,4
Astronomy or Earth Science or Geology or Meteorology	3,4
Interdisciplinary	3,4
Health/Physical Education	3
ID 1225 Issues in Contemporary Health	3
Additional Requirements	9
COMM 2405 Public Speaking	3
PSY 2110 Psychology of Adolescence	3
ID 2052 Human Exceptionality (prereq. 3.00 Cum. GPA. Grade of B- required)	3
ID 3051 Comp Tech Today's Incl Society	3
ID 3163 Build Incl Environ Pos Beh Sup	3

ACADEMIC MAJOR REQUIREMENTS*39

ENG 2000 Writing about Literature**	3
ENG 2101 Structure and origins of the English Language***	3
ENG 2205 British Literature I****	3
ENG 2206 British Literature II****	3
ENG 2220 Diverse Traditions and Voices of American Literature I****	3
ENG 2221 Diverse Traditions and Voices of American Literature II****	3
ENG 3215 Shakespeare Survey****	3
ENG 3001 Critical Approaches to Literature*****	3
ENG 3255 Young Adult Literature	3

*Grade of C or better Required in every academic major course.

**This course should be taken at the very beginning of the major.

***Students passing a departmental challenge test in linguistics may substitute any upper-level linguistics elective for this course.

****Survey courses should be taken before upper-level electives.

*****Critical Approaches should be taken after completion of survey courses and prior to enrollment in major electives.

ENGLISH ELECTIVES 9

(Must include 6 hours at the 3000 or 4000 levels.

MAJOR/GE CAPSTONE COURSE

ENG 4800 Senior Seminar WE	3
Petition required. Students must complete all major requirements and all but one of the major electives prior to enrollment in Senior Seminar.	

PROFESSIONAL EDUCATION REQUIREMENTS (32 S.H.)

Grade of C or better required, except where indicated

Sophomore Level

SPED 2120 Introductory Field Exp. (Grade of B- or better req.)*	3
SPED 2200 Multicultural Learner in Diverse Settings (Grade of B- or better req.)*	3

Junior Level

EDUC 3000 Curr. Eval.& Learner	3
SPED 3000 Princ & Pract Contemp Educ*	3
SPED 3001 Preprofessional Field Exp*	2
EMSE 3210 English Educ. P-12 WE*	3
EDUC 3401 Lang/Rdg P-12*	3

Senior Level

EDUC 4000 Teacher and Classroom	3
SPED 4135 Professional Field Exp (prereq. passing score on appropriate Praxis II required)9	
(SPED 4135 and EDUC 4000 must be taken concurrently)	

*Prerequisite: 3.00 Cumulative GPA

TOTAL 130-131 S.H.

ACADEMIC CONTENT AREA:

ENGLISH (STANDARD/LITERATURE OPTION) FOR P-3 & K-6 EDUCATION MAJORS ONLY

TOTAL: 30 CREDITS

MAJOR REQUIREMENTS 18

ENG 2000 Writing About Literature*	3
ENG 2101 Structure and Origins of English**	3
ENG 2205 British Literature I***	3
OR	
ENG 2206 British Literature II***	3
ENG 2220 Diverse Traditions and Voices of American Literature I***	3
OR	
ENG 2221 Diverse Traditions and Voices of American Literature II***	3
ENG 3215 Shakespeare Survey ***	3
ENG 3001 Critical Approaches to Literature****	3

MAJOR ELECTIVES 12

12 Semester hours with at least 9 at the 3000-4000 level.

*This course should be taken at the very beginning of the Content Area.

**Students passing a departmental challenge test in linguistics may substitute any upper-level linguistics elective for this course.

***Survey courses should be taken before upper-level Content Area electives.

****Critical Approaches should be taken after completion of survey courses and prior to enrollment in Content Area electives.

ACADEMIC CONTENT AREA:

ENGLISH (WRITING OPTION). FOR P-3 K-6 EDUCATION MAJORS ONLY.

TOTAL: 30 CREDITS

MAJOR REQUIREMENTS			18
ENG	2010	Creative Writing	3
ENG	2020	Writing	3
ENG	2101	Structure and Origins of English*	3
ENG	3005	Intro to Writing Studies: Writing about Writing (prereq. ENG 2020 or ENG 2101)	3
ENG	3029	Research in language and Literacy (prereq. ENG 2101)	3
ENG	3080	Writing for Cyberspace (prereq. ENG 2020)	3

*Students passing a departmental challenge test in linguistics may substitute any upper level linguistics elective for this course.

MAJOR ELECTIVES			12
To be selected with advisement from the English Department			

ENGLISH MINOR

REQUIREMENTS			18
<i>Required Course</i>			
ENG	2000	Writing about Literature	3
<i>Electives</i>			15

Five courses selected with advisement. At least two must be on the 3000-4000 level. No more than two courses transferred from another institution can be used. ENG 1030: College Composition (or its equivalent) and ENG 2403: World Literature, which are General Education Foundations requirements, cannot count toward the minor.

ENGLISH COURSES

Note: ENG 1030 (Composition) or its equivalent, is a prerequisite for all ENG 2000, 3000, and 4000 level courses. ENG 2403 (World Literature) or its equivalent is a prerequisite for all 2000, 3000, and 4000 level Literature courses.

ENGLISH AS A SECOND LANGUAGE

Enrollment in ESL courses and ENG 1202, 1203, 1300, and 1430 is limited to students whose native language is not English. There are special requirements and restrictions related to these courses and their application to the baccalaureate degree. See the Academic Standards and Procedures section of this catalog for information on the English as a Second Language Program.

All courses with ESL designations are graded on pass/fail basis only. Credit earned for these courses does not fulfill degree requirements.

All core courses are six credits and are taken sequentially based on initial placement.

Sections designated as "L" sections within the English Department and General Education courses are taught by ESL specialists. These courses include ENG 2403, ENG 3090, and GE 2026. Credits earned for these courses fulfill degree requirements.

ESL	0090	Beginning English as a Second Language (6)	
For non-native speakers, beginning-level study of English for use in academic settings, including work in written and oral language. Graded on a Pass/Fail basis only. Required of ESL students according to results of placement test. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0093	Beginning Conversation (3)	
Practice in beginning conversational English in campus and community situations. Required for students placed into ESL 0090. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0095	Beginning Reading and Writing (3)	
Begin to develop as a reader and writer of English. Emphasis on subject matter of high interest to each student. Required of students placed into ESL 0090. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0100	English as a Second Language I (6)	
Narrative and expository writing. Part one of a two-part sequence that prepares students for courses in academic written and oral communication. Focus on topics of interest to the students. Graded on a Pass/Fail basis only. Required of ESL students according to results of placement test. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0103	Conversation I (3)	
Practice in conversational English in campus, community, social, and work situations. May be taken with ESL 0100. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0104	English as a Second Language (ESL) Workshop I (6)	
For students who have failed ESL 0100, particularly for their lack of proficiency in writing; students who have successfully completed ESL 0100 but who need added reading/writing practice before taking ESL 0200; other students by advisement.			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0105	Reading and Writing in English I (3)	
Develop as a reader and writer of English. Emphasis on subject matter of high interest to each student. May be taken with ESL 0100. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0200	English as a Second Language II (6)	
Narrative and expository writing. Part two of a two-part sequence that prepares students for courses in academic written and oral communication. Focus on topics of interest to the students. Graded on a Pass/Fail basis only. Required of ESL students according to results of placement test. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0203	Conversation II (3)	
Extensive practice in conversational English in formal and informal settings. May be taken with ESL 0200. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0204	English as a Second Language (ESL) Writing Workshop II (6)	
For students who have failed ESL 0200, particularly for their lack of proficiency in writing; students who have successfully completed ESL 0200 but who need added reading/writing practice before taking ENG1300; other students by advisement.			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0205	Reading and Writing in English II (3)	
Continue to develop as a reader and writer of English. Emphasis on subject matter of high interest to each student. May be taken with ESL 0200. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0303	Academic Oral Discourse I (3)	
Develop oral language in academic settings, using authentic materials related to General Education course demands. May be taken with ENG 1300. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0304	English as a Second Language (ESL) Writing Workshop III (6)	
For students who have failed ENG 1300, particularly for their lack of proficiency in writing; students who have successfully completed ENG 1300 but need additional work with reading/writing before taking ENG 1430 (College Composition for Non-Native Speakers II); other students by advisement.			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0305	Academic Written Discourse I (3)	
Develop reading, writing, and vocabulary in English in preparation for General Education courses. May be taken with ENG 1300. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0403	Academic Oral Discourse II (3)	
Develop oral language in academic settings, using authentic materials related to students' chosen disciplines. May be taken with ENG 1430. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0405	Academic Written Discourse II (3)	
Develop reading, writing, vocabulary, and rhetorical strategies in English, as applied to students' chosen disciplines. May be taken with ENG 1430. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0503	Pronunciation Workshop (3)	
For non-native speakers of English, including those in ESL courses and others as advised. Guidance and practice in English pronunciation. Emphasis on students' pronunciation goals. Pass/Fail. Institutional credit only; can be repeated (for institutional credit only). (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL	0504	Post-ESL Workshop (1)	
For students who have completed all ESL core courses. Guidance in advanced English language acquisition. Emphasis on student's academic major or career. (E)			
<i>Prerequisite: Placement by advisement only.</i>			

ESL 0506 Fundamentals of ESL Grammar (3)
For English language learners. The fundamentals of English grammar and structure in preparation for academic writing. May be taken with ESL 0200 or ENG 1300. (E)
Prerequisite: Placement by advisement only.

ESL 0516 Intermediate ESL Grammar (3)
For English language learners. The application of complex grammatical structures in the writing process. May be taken with ENG 1300 or ENG 1430. (E)
Prerequisite: Placement by advisement only.

ENG 1202 Experiential English in the United States (3)
English for visiting students at the beginning and low intermediate levels. Emphasis on experiencing language in the context of culture in the United States. Pass/Fail. Not for graduation credit at Kean University. (E)
Prerequisite: Petition required from Center for International Studies and Programs.

ENG 1203 Experiential English in the United States II (3)
English for visiting students at the high intermediate and advanced levels. Emphasis on experiencing language in the context of culture in the United States. Pass/Fail. Not for graduation credit at Kean University. (SSII)
Prerequisite: Petition required from Center for International Studies and Programs.

ENG 1300 College Composition I for English Language Learners (6)
Academic expository writing. Part one of a two-part sequence emphasizing reading, the writing process, collaboration, and critical thinking across the curriculum, particularly expository and persuasive genres. Graded on a Pass/Fail basis only. Required of all ESL students according to results of placement test. (E)
Prerequisite: Placement by advisement only.

ENG 1430 College Composition II for English Language Learners (6)
Development of reading, the writing process, collaboration, and critical thinking across the curriculum. Equivalent to ENG 1030. General Education requirement. (E)
Prerequisite: Placement by advisement only.

WRITING

ENG 0110 Writing Seminar (3)
Intensive writing workshop with focus on grammar and effective sentences, paragraphs and essays. Emphasis upon the writing process and integral critical thinking skills. Individual and collaborative writing assignments will culminate in a class project. Pass/Fail. No college credit.
(Prerequisite: Placement by advisement only)

ENG 1025 Entering the Conversation (3)
Preparatory course for College Composition. Introduction to the writing and reading processes used across the college curriculum. Each section will focus on a specific topic or issue (such as gender and advertising, rhetoric or popular culture, sports and ethnicity, or technology). Emphasis placed on experiential learning. Students' performance in the course will determine their placement for College Composition. (SSII)

ENG 1030, 1031-1032, 1033-1034 College Composition (3)
Development of flexible processes for composing writing to meet academic purposes across the curriculum. The version of College Composition students must take will be determined by the results of a placement essay. ENG 1030 (E, SSI, SSII)
ENG 1031-1032 (E)
ENG 1033 (FA) ENG 1034 (SP)

ENG 1620 Honors Composition (3)
Students develop flexible processes for composing writing to meet academic purposes across the curriculum through guided experiences in reading, writing, and conducting one-on-one conferences with student writers. This course is equivalent to ENG 1030, 1031/1032, and 1033/1034. (FA)
Prerequisite: Approval of the English Department College Composition Placement Committee

ENG 2005 Advanced Composition (3)
Extend proficiency in writing for academic purposes, with an emphasis on composing process, rhetorical analysis, and disciplinary writing. (SP)
Prerequisite: ENG 1030 or equivalent

ENG 2010 Creative Writing (3)
Introduces practices for reading and writing the primary forms for creative writing, to include fiction, creative nonfiction, poetry, and drama. (E, SSI)
Prerequisites: ENG 1030 or equivalent

ENG 2020 Writing (3)
Exploration of writing: its history and theoretical foundations; processes and purposes; careers and technologies. Students experiment with a range of discourses: commercial, creative, informational, academic, personal, political, and technical. (E, SSI)
Prerequisite: ENG 1030 or equivalent

ENG 2021 Writing Process (3)
Examination of theory and practice related to writing as a process. Emphasis will be placed on analyzing processes used by the student and by other writers.
Prerequisites: ENG 1030 or ENG 1430 or equivalent

ENG 3000 Writing Poetry (3)
Exploration of poetic vision and creative process through the writing of poetry. (FA)
Prerequisite: ENG 1030, permission of instructor

ENG 3005 Introduction to Writing Studies: Writing about Writing (3)
Extend proficiency in creating academic texts through reading and writing about research in writing studies. Emphasis on effective process; rhetorical analysis, and contextual considerations. (E)
Prerequisite: ENG 2020 or ENG 2101

ENG 3010 Playwriting (3)
A course in the writing of play scripts.
Prerequisites: ENG 1030 or equivalent

ENG 3020 History of Rhetoric in Writing (3)
A survey of significant trends and theorists in the Western rhetorical tradition from the fifth century B.C.E. Greece to the present. Examination of the development of the study of rhetoric and writing in relationship to literature, language and composition. (E)
Prerequisites: ENG 1030 or equivalent, ENG 2403 or equivalent

ENG 3021 Cultural Rhetorics and Writing (3)
Examination of history, theory, and use of rhetoric in Western and non-Western cultures. Emphasis placed on how differences in rhetoric across cultures affect choices writers can make.
Prerequisite: ENG 1030 or equivalent.

ENG 3029 Research in Language and Literature (3)
Teaches the analysis of language and reinforces critical approaches to literature. Extends and solidifies writing practices and editing strategies for language and literature studies. Teaches library and field research methods. (E)
Prerequisites: ENG 2403 or equivalent and ENG 2101

ENG 3030 Writing Arguments (3)
Study and application of the use of rhetorical theory to create various types of arguments about social issues. This course will build on the writing, rhetorical, and research skills developed in ENG 1030 or equivalent courses. (FA)
Prerequisite: ENG 1030 or equivalent

ENG 3031 Writing in the Humanities (3)
This course will build on the writing, rhetorical, and research skills developed in College Composition, Research and Technology or equivalent courses. An introduction to the genres of writing used by professionals and students in the humanities, including reviews, annotated bibliographies, and research proposals. Humanities, for this course, includes Art, Art History, English, Foreign Language, History, Philosophy/Religion, Music, and Theater, among others. (FE)
Prerequisite: ENG 1030 or equivalent and GE 2020 or equivalent

ENG 3035 Literacy Studies (3)
Examination of major trends in literacy studies, the study of how people learn and use reading and writing. Emphasis on the social, interactive nature of literacy practices and on cultural power associated with different literacies. (FA)
Prerequisite: ENG 2020

ENG 3041 Writing in the Social Sciences (3)
An introduction to writing in the social sciences, including psychology, sociology, criminal justice, anthropology, and others. This course provides an introduction to writing forms used by professionals and students in the social sciences, including analytic essays, reports, literature reviews, and annotated bibliographies.
Prerequisite: ENG 1030 or equivalent and GE 2020 or equivalent

ENG 3070 Coaching Writing Across the Disciplines (3)
An experiential learning course that prepares selected sophomores and juniors for work as writing fellows. Focuses on supporting students in discipline-specific writing. All majors are encouraged to enroll.
Prerequisites: Grade of B+ or higher in ENG 1030 or equivalent; grade of B or higher in GE 202X, Research and Technology or equivalent; or permission of instructor; and overall GPA of 3.0 or higher.

ENG 3080 Writing for Cyberspace (3)
Explores emerging theories and practices for writing for the Internet and other new electronic media. Studies effects of new media on the conceptualization of literacy, writing process, and products. (E)
Prerequisites: ENG 1030 or equivalent, ENG 2020

ENG 3090 Business and Professional Writing (3)
Readings, discussion, and writing projects focused on writing for the workplace, including completion of a resume and a formal report. Emphasis placed on rhetorical conventions, style, design, and formatting. (E, SSI, SSII)
Prerequisites: ENG 1030 or equivalent and ENG 2403 or equivalent

ENG 3091 Technical Writing (3)
Examination of and practice in creating documents used in science and technical fields, including correspondence, descriptions, resumes, definitions, instructions, and reports. Emphasis on writing in response to specific contexts. (E)
Prerequisites: ENG 1030 or equivalent

ENG 4000 Advanced Writing Poetry (3)
Intensive writing of poetry leading to a chapbook-length manuscript. Special attention to voice, prosody, models, crafting, and theory of writing poetry. (SP)
Prerequisite: Permission of instructor. Class participants chosen through review of a five-page poetry submission prior to registration. Deadline for each semester TBA

ENG 4002 Research and Methods in Composition (3)
Provides a representative overview of approaches to research and methods in composition studies.
Prerequisite: ENG 3029

ENG 4005 Writing Fiction (3)
The theory and practice of writing fiction. (SP)
Prerequisites: ENG 1030 or equivalent

ENG 4017 Writing Creative Nonfiction: Special Topics (3)
A course for the writing of creative nonfiction. Each semester will be devoted to a special topic such as Memoir, Humor and Satire, Self-Help, Travel, Science, Politics, Spirituality and Religion, or Nature. This course may be taken for credit more than once if the topics studied differ. (FA)
Prerequisite: At least one English course at 3000-level

ENG 4030 Reading and Writing Race and Ethnicity (3)
Exploration of relationships between language and power and their influence on how we read and write about racial and ethnic identity. (SE)
Prerequisites: ENG 2000, ENG 2020, or permission of instructor

ENG 4040 New Literacies Studies and Ethnography (3)
Study of ethnographic theory and practice within new literacies studies. Students survey ethnographic research methods and design and conduct original research within the field of new literacies.
Prerequisites: ENG 3029 or ENG 3005

ENG 4050 Writing Literature for Children and Young Adults (3)
Writing fiction and non-fiction for children through literary analysis and class discussion. Examination of narrative forms, techniques, and craft. Previous creative writing experience not necessary. (FA)
Prerequisite: Minimum of one 3000-level English elective

ENG 4060 Topics in Rhetoric and Writing Studies (3)
Focused study of specific aspects of rhetoric and writing studies. Topics – such as Rhetoric and Literature and Stylistics – will vary each time the course is offered. This course may be taken for credit more than once if the topics studied differ.
Prerequisite: ENG 3029

ENG 4070 Peer Tutoring and Writing Center Approaches to Learning and Writing (3)
Introduction to writing center theory and practice. This course will strengthen students' strategies for writing and communication as it prepares them to work as peer tutors at a writing center. (FE)
Prerequisite: ENG 2005 or permission of instructor

ENG 4081 Writing Electronic Literature (3)
Study of established and emerging forms of electronic literature – hypertext fiction, network fiction, interactive works, and digital poetry. Students read, analyze, and compose a variety of genres of electronic literature.
Prerequisites: ENG 3080 or permission of the instructor.

ENG 4090 Collaborative Writing at Work (3)
Examination of various theoretical and practical issues involved in collaborative writing, or working in a group to create a single document. Additional focus on sharpening the professional writing skills learned in earlier courses.
Prerequisites: ENG 3090 or ENG 3091 or permission of instructor

ENG 4093 Technical Editing (3)
Introduction to and practice in principles for editing technical documents, including both copy editing and comprehensive editing. (SP)
Prerequisites: ENG 3090 or ENG 3091 or permission of instructor

ENG 4100 Second Language Writing: Theory and Practice (3)
Examination of theoretical and practical issues in second language writing, research, pedagogy, development, assessment, ideology, and technology. (SP)
Prerequisites: ENG 2101 and one 3000-level English Elective

ENG 4817 Senior Writing Seminar (3)
Intensive study of theories of authorship, culminating in a substantial original manuscript and a critically informed reflective essay on its production.
Prerequisites: Senior status, English Writing Option major. Qualified juniors may enroll in the seminar with the permission of the Department. (E, SSI)
Successful completion of all major requirements and at least five major electives.
Petition required.
Writing Emphasis Course

LINGUISTICS

ENG 2101 Structure and Origins of the English Language (3)
An overview of the grammatical structure of the English language, its diversity, and its history. (E, SSI)
Prerequisite: ENG 1030 or equivalent

ENG 3101 Introduction to Linguistics (3)
An introduction to the descriptive study of language, including phonetics, phonology, morphology, grammar, language change, and variation in language. (FE)
Prerequisites: ENG 1030 or equivalent and ENG 2101 or passing grade on Department placement test in linguistics

ENG 4120 Language Variation in Society (3)
Analysis of language as a reflection of society and language use in specific social contexts. Introduction of research tools for language studies. (SO)
Prerequisite: GE 2020 or equivalent

ENG 4159 Introduction to ESL Assessment (1)
An overview of issues and resources in the assessment of English language learners. Enrollment limited to post-baccalaureate students. (FO)
Prerequisites: ENG 5105, ENG 5120, and ENG 5130
Corequisite: EMSE 4801 or permission of instructor

ENG 4160 Assessment of English Proficiency in English Language Learners (3)
An applied linguistic perspective on assessment of ability in English as a Second or Foreign language: recent history and current trends. Preparation and evaluation of assessment instruments.
Prerequisites: ENG 2101, ENG 3101.

JOURNALISM

ENG 2920 Introductory Journalism (3)
Instruction and practice in basic journalistic techniques, with an emphasis on developing news judgment, interviewing, and writing the inverted pyramid story with a "5-W" (who, what, when, where, why) lead. (E, SSI)
Prerequisite: ENG 1030 or the equivalent

ENG 3910 Advanced Journalism (3)
Instruction and practice in advanced journalistic techniques, with an emphasis on areas of coverage of events like speeches, news conferences, and meetings, and of institutions like government, education and the courts. (E)
Prerequisite: ENG 2920 or equivalent, or permission of instructor

ENG 3915 Feature Writing (3)
Instruction and practice in the principles of writing feature articles for newspapers and magazines, with emphasis on style, organization, and human interest. (SP)
Prerequisite: ENG 1030 or the equivalent

ENG 3917 Sports Writing in Journalism (3)
Instruction and practice in writing sports stories for newspapers and magazines. (E)
Prerequisite: ENG 2920 or permission of instructor

ENG 3920 Specialty Writing in Journalism (3)
Instruction and practice in the principles of writing specialty articles for newspapers, such as cultural reviews, editorials and opinion articles, news analyses, business stories, and science stories. (SP)
Prerequisite: ENG 2920 or ENG 3915 or permission of instructor

ENG 3925 Editing Skills in Journalism (3)
Instruction and workshop in the principles and practice of editing newspapers and magazines. Includes newsroom administration. (E)
Prerequisite: ENG 2920 or ENG 3910 or permission of instructor

LITERATURE

ENG 2000 Analytical Writing about Literature (3)
Critical reading and writing about fiction, poetry, and drama. (E, SSI)
Prerequisite: ENG 2403 or equivalent. May be taken in the same semester as ENG 2403.

ENG 2205 British Literature I (3)
Major writers, periods, genres, styles, and ideas in British literature from Beowulf through Samuel Johnson. (E, SSI)
Prerequisite: ENG 2403 or equivalent

ENG 2206 British Literature II (3)
Major writers, periods, genres, styles, and ideas in British literature from the Restoration through the twentieth century, with emphasis on poetry, drama, and shorter prose. (E, SSII)
Prerequisite: ENG 2403 or equivalent

ENG 2210 World Drama (3)
Introduction to dramatic literature from Sophocles to Shakespeare to Beckett and Albee.
Prerequisite: ENG 2403 or equivalent

ENG 2220 Diverse Traditions and Voices of American Lit I: Beginnings to 1860 (3)
A survey of American literature from its inception to 1860 with particular attention to the diversity of its traditions and voices. (E, SSI)
Prerequisite: ENG 2403 or equivalent

ENG 2221 Diverse Traditions and Voices of American Lit II: 1865 to Present (3)
A survey of American Literature after the Civil War in context of the diversity of its traditions and of its voices. (E, SSII)
Prerequisite: ENG 2403 or equivalent

ENG 2250 Children's Literature (3)
Introduction to the nature and variety of children's literature. Criteria for evaluating literary merit and visual artistry. Related topics, such as literacy, learning, and the changing views of childhood. (E)
Prerequisite: ENG 2403 or equivalent

ENG 2403 World Literature (3)
Readings in world literatures from ancient times to the present. Emphasis on cultural diversity, selected themes, and literary genres. Development of aesthetic and ethical values and of critical reading, thinking, and writing. (E, SSI, SSII) ENG 2403 L sections (E only)
Prerequisite: ENG 1030 (or equivalent) and completion of any freshman placement requirements in reading

ENG 3001 Critical Approaches to Literature (3)
A survey of the methods of literary research and an introduction to literary criticism and critically informed writing about literature. (E, SSI)
Prerequisite: ENG 2000

ENG 3029 Research in Language and Literature (3)
Teaches the analysis of language and reinforces critical approaches to literature. Extends and solidifies writing practices and editing strategies for language and literature studies. Teaches library and field research methods. (E)
Prerequisites: ENG 2403 or equivalent and ENG 2101

ENG 3200 African American Literature Survey (3)
A survey of African-American writers from the Colonial period to the present.
Prerequisite: ENG 2403 or equivalent

ENG 3205 Literature of the East (3)
Traditional and contemporary writings (epic, novel, poetry, short story, drama) from the Near and Far East examined for literary, aesthetic, and transcultural values.
Prerequisite: ENG 2403 or equivalent

ENG 3210 Russian Literature in Translation (3)
Representative works in English translation of major writers from Pushkin to Solzhenitsyn. (SE)
Prerequisite: ENG 2403 or equivalent

ENG 3215 Shakespeare Survey (3)
An introduction to Shakespeare's comedies, histories, and tragedies. (E, SSI)
Prerequisite: ENG 2403 or equivalent

ENG 3220 Soviet Film (3)
A study of Soviet cinema from the Russian Revolution to the Glasnost period. (SE)
Prerequisite: ENG 2403 or equivalent

ENG 3221 Detective Fiction (3)
A survey of both classic and hardboiled detective fiction from Edgar Allan Poe to Walter Mosley. (SSI)
Prerequisite: ENG 2403 or equivalent

ENG 3222 World War II in Film and Literature (3)
Analyses of representative American films and novels about World War II. (SP)
Prerequisite: ENG 2403 or equivalent

ENG 3223 Crime in Fiction and Film (3)
The screening and study of filmic renditions of short stories and longer fictional narratives about the commission, investigation, and punishment of crime by writers from the nineteenth century through the twenty-first century.
Prerequisite: ENG 2401

ENG 3231/AS 3231 Indian Bhakti Poetry (3)
A survey (from the medieval period to the present) of Indian Bhakti poetry, a type of ecstatic protest verse written by a loosely connected school of poets from both northern and southern India. Perspectives include literary, psychological, neurological, sociopolitical, historical and religious implications. All selections will be read in translation.
Prerequisite: ENG 2403

ENG 3232 Special Topics in Women and Literature (3)
A shell course for the study of literature by and about women. Each semester will be devoted to a special topic such as Women and the Creative Process, Women and Politics, Marriage in the Early Modern Period, Feminist Criticism and Theory, and topics will vary by semester. This course may be taken for credit more than once as long as the particular topics studied differ.
Prerequisite: ENG 2403 or equivalent

ENG 3250 Russian Studies in St. Petersburg and Moscow (3)
Travel course to Russia, offered only during January, for study of the culture, history, aesthetics, music and drama that form the backdrop of the literature of Leningrad and Moscow. Travel costs will vary. Students should consult instructor and Director of International Studies. May be used as free elective only. (As Needed)
Prerequisite: Permission of instructor

ENG 3255 Young Adult Literature (3)
The examination of modern literature for or about young adults as a viable literary genre with its own characteristics, history, and body of criticism. Emphasis on selection of literature for adolescents at various stages and analysis of issues in the field, such as censorship, new media, and the canon. (E, SSI)
Prerequisites: ENG 2000; completion of at least three of the following major requirements: ENG 2205, 2206, 2220, 2221 and 3215.

ENG 3260 African Literature Survey (3)
A survey of selected novelists, playwrights and poets of modern Africa.
Prerequisite: ENG 2403 or equivalent

ENG 3300 Ancient Greek and Roman Literature in Translation (3)
A survey of the major works in ancient Greek and Roman literature from Homer to Virgil and Ovid. (SO)
Prerequisite: ENG 2403 or equivalent or permission of instructor.
Writing Emphasis Course

ENG 3305 Medieval Poetry and Prose (3)
A study of secular medieval narrative in romance, saga, fabliau, and other genres.
Prerequisite: ENG 2403 or equivalent

ENG 3306 Renaissance Prose and Poetry (3)
A historic-biographical analysis of out-standing European Continental literary works from 1350 to 1650, with attention to multi-cultural, class, and gender issues.
Prerequisite: ENG 2403 or equivalent
Writing Emphasis Course

- ENG 3310 Sixteenth Century English Renaissance (3)**
The "Golden Age" in English literature (exclusive of Shakespeare) from the close of the Middle Ages to the death of Elizabeth I, with focus on the development of English fiction and verse forms, the effect of religious and political controversy in the literature, and the rise of "popular" writing. (SE)
Prerequisite: ENG 2403 or equivalent, ENG 2205 or ENG 3215
- ENG 3315 17th Century Prose and Poetry (3)**
Major works of the Metaphysical and Cavalier poets, with emphasis on Donne and Jonson. Additional readings from Webster, Bacon, Burton, Browne, and Milton, examined in relation to the 17th century and modern times. (FE)
Prerequisite: ENG 2403 or equivalent
- ENG 3316 Elizabethan and Stuart Drama: 1587-1642 (3)**
Major writers from Marlowe to the closing of the theatres in 1642, with the omission of Shakespeare. (SE)
Prerequisite: ENG 2205 or ENG 3215 or permission of instructor
- ENG 3320 Restoration and Eighteenth Century Drama (3)**
British dramatic literature of the period from 1660-1800, with emphasis on the comedies of Wycherly, Congreve, Sheridan and Goldsmith. (FO)
Prerequisite: ENG 2403 or equivalent
- ENG 3325 Eighteenth Century English Literature (3)**
Pope, Swift, Boswell and Johnson with emphasis on satire, the development of periodical literature and biography.
Prerequisite: ENG 2403 or equivalent
- ENG 3335 English Romantic Literature (3)**
Writings of Wordsworth, Byron, Shelley, Coleridge, Keats, Hazlitt, and Lamb, studied in relation to the history and culture of the time. (FO)
Prerequisite: ENG 2403 or equivalent
- ENG 3340 Victorian Literature (3)**
The major Victorian novelists, poets and essayists studied within the context of important social and political changes during the 19th century. (SE)
Prerequisite: ENG 2403 or equivalent
- ENG 3342 The Irish Literary Tradition (3)**
The emergence of the modern Irish literary voice in the context of religious, political, sociological, and artistic developments from 1880 to the present. Special emphasis on the writings of Lady Gregory, Yeats, Joyce, Synge, O'Casey, Beckett, and Heaney. (FO)
Prerequisite: ENG 2403 or equivalent
- ENG 3345 Twentieth Century British Literature (3)**
A critical study of literary texts by twentieth-century British authors. Emphasis on issues of race, class, and gender. Special attention to stylistic aspects of modernism and post-modernism. (SE)
Prerequisite: ENG 2206
- ENG 3355 American Transcendentalism: The Movement in Literature, 1815-1871 (3)**
Origins and development of Transcendentalism. Achievements of the movement in literature. Emphasis on ideas and on literary theory and practice of Emerson, Thoreau, and Whitman. Some consideration of minor literary figures and of the movement in its broader aspects. (SE)
Prerequisite: ENG 2220 or permission of instructor
- ENG 3360 American Literature Between the World Wars (3)**
Prose and poetry of the period from World War I to the beginning of World War II. Emphasis on literary experimentalism, social and political ferment, and the influence of regionalism and expatriation on American writers of the first half of the twentieth century.
Prerequisite: ENG 2403 or equivalent
- ENG 3365 Literatures and Literary Theories of Colonialism and Post-Colonialism (3)**
Examination of literatures and literary theories of colonialism and post-colonialism, with an emphasis on narratives written in English.
Prerequisite: ENG 2403 or equivalent
- ENG 3380 Literature of the Holocaust (3)**
A study of Holocaust literature as history, memory, and art.
Prerequisite: ENG 2403 or equivalent
- ENG 3500 The Art of Poetry (3)**
Study of the art of poetry with emphasis on modes of interpretation and cross-cultural comparisons.
Prerequisite: ENG 2403 or equivalent
- ENG 3502 The Bible as Literature (3)**
Study of the literary forms of the Old and New Testaments and their influences on Western literature. (FO)
Prerequisite: ENG 2403 or equivalent
- ENG 3506 Modern British and American Poetry: 1900-1950 (3)**
The genesis of modern poetry, its major characteristics, and its relation to the poetic tradition.
Prerequisite: ENG 2403 or equivalent
- ENG 3507 Contemporary British and American Poetry: 1950 to Present (3)**
An exploration of the most significant developments in British and American poetry since 1950.
Prerequisite: ENG 2403 or equivalent
- ENG 3510 Aspects of the Novel (3)**
Such novelists as Joyce, Gide, Kafka, Lawrence, Hemingway, Faulkner, and Woolf, studied in relation to their antecedents in the realistic novel of the 19th century. (SE)
Prerequisite: ENG 2403 or equivalent
- ENG 3514 American Drama from 1900 to the Present (3)**
A study of plays by American playwrights from 1900 to the present. Attendance at theatrical productions required. Fees may be required for off-campus productions. (SP)
Prerequisites: ENG 2403 or equivalent
- ENG 3515 Modern Drama (3)**
An examination of themes and forms of modern drama from Ibsen to the present. (SE)
Prerequisite: ENG 2403 or equivalent
- ENG 3516 Dramatic Literature in Performance (3)**
A study of the current New York season of plays from various periods. Emphasis on drama as literary text and on the transformation from the page to the stage. Students will read, see, discuss, and write about each play. Student discounted tickets are available with identification. Transportation by train from campus.
Prerequisite: ENG 2403 or equivalent
- ENG 3517 Biography (3)**
Study of biography in its various manifestations from ancient times to the present. (SP)
Prerequisite: ENG 2403 or equivalent.
- ENG 3525 Literary Theory and Criticism (3)**
Reading and examination of literary theory and criticism: its history and an overview of contemporary modes of literary studies.
Prerequisite: ENG 2000 and ENG 3001, or permission of instructor
- ENG 3530 The Short Story (3)**
The history, theory, and practice of the European and American short story.
Prerequisite: ENG 2403 or equivalent.
- ENG 3532 Horror Fiction (3)**
Examination of representative works from the horror genre. Emphasis placed on archetypes and their evolution across time and culture.
Prerequisite: ENG 2403 or equivalent.
- ENG 3540 The American Short Story in Film (3)**
Analyses of representative American short stories from Hawthorne to Updike and study of films based upon them.
Writing Emphasis Course
Prerequisite: ENG 2403 or equivalent
- ENG 3555 Comedy (3)**
An analysis of the form and structure of comic drama from Aristophanes to Neil Simon. (SSI)
Prerequisite: ENG 2403 or equivalent
- ENG 3700 African-American Women Writers (3)**
An overview of the literature created by African American women from colonial days to modern times, emphasizing their response to social, cultural, and artistic marginalization and the power and merit of their work. (SP)
Prerequisite: ENG 2403 or equivalent
- ENG 3716 British Women Writers: A Critical Perspective (3)**
Selected British women writers from several critical perspectives. Writing Emphasis Course (SE)
Prerequisites: ENG 2403 or equivalent and ENG 2000
- ENG 3723 The American Jewish Novelist and the Modern World (3)**
An in-depth study of several Jewish-American novelists who have helped to shape and reflect contemporary literature and contemporary social and psychological consciousness.
Prerequisite: ENG 2403 or equivalent

ENG 3725 Ethnic American Literature (3)
Study of African, Asian/Pacific, Hispanic, Native American, and other ethnic American literature. (SE)
Prerequisite: ENG 2403 or equivalent

ENG 3750 Writers of the Asian Diaspora (3)
A critical examination of literature by writers of the Asian diaspora, particularly in the United States, with an emphasis on colonial histories and cultural and ethnic representations. (FO)
Prerequisite: ENG 2403 or equivalent

ENG 4081 Introduction to Electronic Literature (3)
Study of established and emerging forms of electronic literature including hypertext fiction, network fiction, interactive works, and digital poetry. Students read, analyze, and compose a variety of genres of electronic literature.
Prerequisites: ENG 2403 or equivalent, ENG 3080 or permission of instructor

ENG 4301 Contemporary Caribbean Women Writers in English & English Translation (3)
Study of selected contemporary Caribbean women writers in English and English translation.
Prerequisite: ENG 2403 or equivalent.

ENG 4350 Contemporary Literature (3)
A critical study of contemporary world literature, from the 1960s on with an emphasis on literature of American and British origin. (FO)
Prerequisites: ENG 2403 or equivalent and ENG 2000

ENG 4400 Chaucer (3)
Development of Chaucer's artistic genius from the early poems through *Troilus and Criseyde* and *The Canterbury Tales* as the final synthesis of the medieval world, with attention to the language, versification, literary characteristics, and historical background. (FO)
Prerequisite: ENG 2403 or equivalent

ENG 4405 Shakespeare: Selected Plays (3)
A detailed analysis of texts, sources, analogues, and criticism of a limited number of plays. (FE)
Prerequisite: ENG 3215

ENG 4410 Milton (3)
Milton's poetry and prose, with emphasis on critical analysis and scholarly problems and the philosophical, religious and political thought of the seventeenth century in England. (SE)
Prerequisite: ENG 2403 or equivalent

ENG 4413 William Blake (3)
Intensive reading of selected lyrics and prophetic poems, with special emphasis on Blake as visionary writer in his cultural context (and in ours). (SO)
Prerequisite: ENG 2403 or equivalent

ENG 4414 Jane Austen (3)
Jane Austen's novels, letters, and juvenilia which will be read in the literary context of her period – the late 18th and early 19th century – and the 20th century film adaptations of her work.
Prerequisite: ENG 2403.

ENG 4415 Poe, Hawthorne and Melville (3)
The poetry, fiction, and criticism of the three writers with special emphasis on literary, biographical and historical data. (SP)
Prerequisite: ENG 2220 (recommended) or ENG 2221

ENG 4417 Henry James (3)
The fiction of Henry James with emphasis on the development of his art, critical analysis of important selected works, examination of his contributions to the genres of the novel and short story.
Prerequisite: ENG 2221 or permission of instructor

ENG 4419 Edith Wharton (3)
Intensive reading of Wharton's fiction, with special attention to her intellectual and artistic formation and her place in the development of the novel.
Prerequisites: ENG 2403 or equivalent
Writing Emphasis Course

ENG 4420 Fitzgerald, Faulkner, and Hemingway (3)
The major fiction of the writers with emphasis on literary, biographical and historical values. (FE)
Prerequisite: ENG 2220 or ENG 2221 (recommended)

ENG 4421 Tennessee Williams: Poet of the Theater (3)
Study of the major plays, as well as the poetry, short fiction, and film scripts.
Prerequisites: ENG 2403 or equivalent and Junior or Senior status.

ENG 4430 Ibsen, Strindberg, Chekhov, and Shaw (3)
Representative plays of these four major figures.
Prerequisite: ENG 2403 or equivalent

ENG 4462 Emily Dickinson (3)
Intensive critical and historical exploration of the poetry and correspondence of Emily Dickinson. (SE)
Prerequisites: ENG 2403 or equivalent; ENG 2000; Permission of instructor.

ENG 4500 Three Masters of Modern Poetry (3)
An intensive study of three major twentieth century figures such as Yeats, Pound, Eliot, Williams, or Stevens. (SE)
Prerequisites: ENG 2403 and three credits of poetry.

ENG 4520 Studies in Poetry (3)
An examination of a poet, school, genre, or theme from an historical, cross-cultural, and/or theoretical perspective. Approaches may include an account of formal elements, cultural/socio-cultural/ideological contexts, poetics, reception history, and/or relevant biographical details. Topics will vary depending on instructor. Can be taken twice if topics differ. (SE)
Prerequisites: ENG 2403 or equivalent, ENG 2000, and one 3000-level elective. Or permission of the instructor.

ENG 4600 Senior Honors Seminar (3)
Individual and intensive reading and investigation in a selected area of literature or language, proposed by the student, and culminating in either a thesis or a creative project.
Prerequisites: Senior status, English major, successful completion of all major requirements and at

least three major electives. Qualified juniors may enroll in the seminar with permission of the Department. May be substituted for ENG 4800 as required seminar. Credit not given for both ENG 4600 and ENG 4800. Petition required. Writing Emphasis Course

ENG 4620 Honors Course in Robert Frost (3)
A close reading of Frost's poetry supplemented by criticism and Frost's biography.
Prerequisites: ENG 2403 or equivalent. 3.0 GPA or better required

ENG 4630 Honors Course in James Joyce (3)
The major works of Joyce, from *Dubliners* to *Ulysses* with emphasis on the development of Joyce's art.
Prerequisites: ENG 2403 or equivalent. 3.0 GPA or better required

ENG 4655 Honors Course in American Autobiography (3)
Study of American autobiographical writing from the Puritans to the present. Emphasis on life writing in its various forms, including the conversion narrative, captivity narrative, slave narrative, memoir, and non-fiction novel.
Prerequisites: ENG 2403, 3.0 GPA or better, and permission of professor

ENG 4800 Senior English Seminar (3)
Intensive study of literature, language, and/or literary criticism, culminating in a substantial critically informed research paper on a topic of the student's choosing. (E, SSI)
Prerequisite: Senior English major, successful completion of all but one of the major electives. Petition required.

INDEPENDENT STUDY AND FIELD EXPERIENCE

ENG 4805, 4806 Publishing Field Experience (3, 6)
Supervised placement in a publishing house to learn the rudiments of the publishing trade.
Prerequisite: Selection by English Department and instructor

ENG 4810, 4811, 4812 Independent Study for English Majors (1, 2, or 3)
Opportunity for English majors of advanced ability to pursue in a concentrated manner a specific area of study in literature, language, or writing not available through current course offerings. Approximately 45 hours of supervised work required for each credit hour. May be repeated for credit. Only six credits may be applied toward graduation. (E)
Prerequisites: Twelve credits in English and permission of instructor

ENG 4910, 4911 Journalism Field Experience (3, 6)
Supervised placement at a daily or weekly newspaper, a monthly magazine, or a comparable publication to write news or feature stories under deadline.
Prerequisites: ENG 2920 and ENG 3915

History

Chairperson, Dr. Jonathan Mercantini
T 117, (908) 737-0250

History offers a framework for understanding the complexities of modern life, the development of nations, social groupings, major intellectual currents, and economic and political trends—as well as other disciplines—in their historical contexts. History majors approach these issues through a wide-ranging study of historical subjects and periods. The major prepares students for careers in teaching, government, the law, banking and business, media, historical sites, museums and archives, and other areas.

A cumulative GPA of 2.75 is required for graduation as a History major. A cumulative GPA of 3.0 is required for graduation as a History Major with Teacher Certification. A cumulative GPA of 3.75 is required for graduation with History – Honors Option.

For more information about College of HSS programs, please see:
<http://www.kean.edu/academics/college-humanities-and-social-sciences>

B.A. HISTORY

GENERAL EDUCATION 43-45

FOUNDATION REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

***ENG 1030 Composition 3

**MATH 1000, 1010, 1016, 1030, 1054 3

COMM 1402 Speech Communication 3

GE 2023 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

Choose two from different areas:

Fine Arts/Art History 3

Philosophy or Religion 3

Foreign Language
(Must take I and II for credit) 3

Music or Theater 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

Choose two from different areas:

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science and Mathematics 10-11

**MATH 1010, 1016, or 1030,

OR CPS 1031 or 1032 3

Lab Science (select two courses): Biology, Chemistry, Physics, Geology, Meteorology, Earth Science, Astronomy 4

Additional Science course: ID or one different science course from above 3-4

Health and Physical Education 2-3

ID 1225 Issues in Contemporary Health 3

OR

ID 1010 Leisure & Recreation in Multicultural Society 3

OR

TWO one credit PED courses 2

ADDITIONAL REQUIRED COURSES 12

Four additional courses in COMM, ENG, FL, PHIL, ANTH, SOC

PS, PSY, ECON (not required of those with second major, minor, collateral) at 3000-4000 level

ACADEMIC MAJOR (ONLY 2 C'S) 45

***REQUIRED: FOUNDATION CORE 15

HIST 1030 Western Civilization I² 3

OR HIST 2060 World Civilization I 3

HIST 1040 Western Civilization II² 3

OR HIST 2070 World Civilization II 3

HIST 2303 US History to 1877 3

HIST 2304 US History 1877 to present 3

One 2000 level course from world areas:

African, Asian, Latin American, Middle Eastern History 3

REQUIRED: ADVANCED COURSES (3000-4000 LEVEL) 18

A. One 2000-4000 level course (from different world areas than above):

African, Asian, Latin American, Middle Eastern History 3

B. Two 3000-4000 level courses in American History 6

C. Two 3000-4000 level courses in European History 6

D. One 3000-4000 level course in Comparative/Thematic History 3

REQUIRED: ADVANCED MAJOR ELECTIVES: 3000-4000 LEVEL 9

HIST 4991 (recommended) 3

HIST (world area recommended) 3

HIST 3

***GE AND MAJOR CAPSTONE 3

HIST 4990 Senior Seminar² (Writing Emphasis) 3

FREE ELECTIVES (AT LEAST 50% MUST BE 3000-4000)³ 22-24

TOTAL 124

SPECIAL NOTES:

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

² Requires advisor permission

³ Free electives should not include History courses

*GE required course

**Course required by major

***Grade of B- or better is required

MINOR IN HISTORY

REQUIREMENTS 21

TWO courses selected from the following:

HIST 1030 Western Civilization I² 3

OR HIST 2060 World Civilization I 3

HIST 1040 Western Civilization II² 3

OR HIST 2070 World Civilization II 3

HIST 2303 United States History to 1877 3

HIST 2304 United States History 1877 to Present 3

ELECTIVES 15

Selected from upper division (3000 and 4000 level) courses with departmental advisement

B.A. HISTORY 134

OPTION: TEACHER CERTIFICATION

GENERAL EDUCATION: 44-45

FOUNDATION REQUIREMENTS 13

G.E. 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition² 3

MATH 1000, 1010, 1016, 1030, 1054 3

COMM 1402 Speech Communication² 3

GE 2023 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities: 9

*ENG 2403 World Literature 3

Select two courses from different areas:

Philosophy or Religion 3

Fine Arts or Art History 3

Music or Theater 3

Foreign Languages

(Must take I and II for credit) 3

Interdisciplinary 3

Social Sciences: 9

*HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

SOC 1000 or ANTH 1800 3

Science and Mathematics: 10 or 11

**MATH 1010, 1016, or 1030,

OR CPS 1031 or 1032 3

Lab Science

Biology; Chemistry; Physics; Geology; Meteorology; Earth Science; Astronomy 4

Additional Science Course:

Interdisciplinary (ID) or one from above 3-4

Health & Physical Education : 3

ID 1225 Issues in Contemporary Health 3

ADDITIONAL REQUIRED COURSES⁶ 15

ECO 1020 Principles of Economics I 3

PS	1010	Introduction to Politics	3
GEOG	2010	World Geography	3
PSY	2110	Psychology of Adolescence	3
ID	2955	Disabled Persons in American Society	3

ACADEMIC MAJOR (ONLY 2 C'S ALLOWED) 45

Students MUST have advisement from History Dept.

REQUIRED: FOUNDATION CORE 15

HIST	1030	Western Civilization I ²	3
OR HIST	2060	World Civilization I	3
HIST	1040	Western Civilization II ²	3
OR HIST	2070	World Civilization II	3
HIST	2303	US History to 1877 ²	3
HIST	2304	US History 1877 to Present ²	3

One 2000 level course from world areas: African, Asian, Latin American, or Middle Eastern History 3

REQUIRED: ADVANCED COURSES 15

A. Two 3000-4000 level American History courses

1. HIST 3326 History of New Jersey 3
2. 3

B. Two 3000-4000 level courses in European History

1. 3
2. 3

C. The following 3-4000 level course in Comparative/Thematic History:

HIST	3000	Perspectives on History ²	3
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REQUIRED: ADVANCED 3000-4000 MAJOR ELECTIVES 12

(choose with advisement; must include remaining 3 world areas of African, Asian, Latin American, Middle Eastern History)

1. World Area: 3
2. World Area: 3
3. World Area: 3
4. Free: (HIST 4991 recommended) 3

G.E. AND MAJOR CAPSTONE: 3

HIST	4990	Senior Seminar ^{2,3} (Writing Emphasis)	3
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PROF. ED AND GE CAPSTONE REQUIREMENTS 30

Sophomore Level			
EMSE	2801	Introductory Field Experience ²	3
Junior Level			
EDUC	3000	Curriculum Evaluation and Learner ²	3
EDUC	3401	Language Arts Reading ²	3
EDUC	3122	Computers in Education ²	3
EDUC	3240	Social Studies K-12 ² WE	3
ESME	3801	Junior Field Experience ⁴ (rec. take with 3903)	2
EMSE	3903	Teaching English Language Learners ²	1

Senior Level			
EMSE			4811
Professional Internship ⁴ (Praxis II content area exam must be passed before student teaching) 9			

PROF. ED/GE CAPSTONE COURSE EDUC 4000 Teacher and Classroom² 3

TOTAL CREDITS 134

SPECIAL NOTES:

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

² Grade of B- or better is required

³ Requires advisor permission

⁴ Requires grade of Satisfactory

⁵ All ADDITIONAL REQUIRED COURSES require a grade of C or better

*G.E. required course

**Course required by Major

B.A. HISTORY

OPTION: TEACHER OF STUDENTS WITH DISABILITIES AND P-12 HISTORY

GENERAL EDUCATION 44-45

FOUNDATION REQUIREMENTS 13

G.E.	1000	Transition to Kean ¹	1
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OR

GE	3000	Transfer Transitions ¹	1
ENG	1030	Composition ²	3
MATH	1000, 1010, 1016, 1030, 1054 ²		3
COMM	1402	Speech Communication ²	3
GE	2023	Research & Technology	3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS:

Humanities

*ENG	2403	World Literature	3
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Select two courses from different areas:

Fine Arts or Art History	3
Philosophy or Religion	3
Music or Theater	3
<i>Social Sciences</i>	9
*HIST 1062 Worlds of History	3
PSY 1000 General Psychology	3
SOC 1000 OR ANTH 1800	3
<i>Science and Mathematics</i>	10 or 11

Lab Science

BIO 1000 Principles of Biology⁵ 4

Additional Science Course: Select one from the following:

Health & Physical Education		3
ID	1225	Issues in Contemporary Health
		3

ADDITIONAL REQUIRED COURSES⁶ 24

ECON	1020	Principles of Economics I	3
PS	1010	Introduction to Politics	3
GEOG	2010	World Geography	3
PSY	2110	Psychology of Adolescence	3
ID	2052	Human Exceptionality ^{2,4}	3
ID	3051	Computer Tech Today's Inclu Soc	3
ID	3162	Families as CollabClasrm	3
ID	3163	Bldg Inclu Environ Pos Beh Sup	3

ACADEMIC MAJOR: 45.H. TOTAL (2 C'S ONLY)

(Students must have advisement from History Dept)

REQUIRED: FOUNDATION CORE 15

HIST	1030	Western Civilization I ²	3
OR HIST	2060	World Civilization I	3
HIST	1040	Western Civilization II ²	3
OR HIST	2070	World Civilization II	3
HIST	2303	US History to 1877 ²	3
HIST	2304	US History 1877 to present ²	3

One 2000 level course from world areas: African, Asian, Latin American, or Middle Eastern History 3

REQUIRED: ADVANCED COURSES 15

A. Two 3000-4000 level courses in American History

1. HIST 3326 NJ History 3
2. 3

B. Two 3000-4000 level courses in European History

1. 3
2. 3

C. The following 3-4000 level course in Comparative/Thematic History:

HIST	3000	Perspectives on History	3
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REQUIRED: ADVANCED 3000-4000 MAJOR ELECTIVES 12

(choose with advisement; must include remaining 3 world areas: African, Asian, Latin American, Middle Eastern)

1. World Area 3
2. World Area 3
3. World Area 3
4. Free (HIST 4991 recommended) 3

G.E. AND MAJOR CAPSTONE 3

HIST	4990	Senior Seminar ^{2,3} (Writing Emphasis)	3
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PROF. ED AND GE CAPSTONE REQUIREMENTS 32

Sophomore Level			
SPED	2120	Introductory Field Exp ^{4,2}	3
SPED	2200	Multicult Learner/ Diverse settings ^{4,2}	3
Junior Level			
EDUC	3000	Curr & Eval & Learner	3
SPED	3000	Prin and Pract Comtem Edu (WE) ⁴	3

SPED	3001	Preprofessional Field Exp	3
EDUC	3401	Lang/Rdg K-12 ⁴	3
EMSE	3240	Social Studies/Contemp Issues in Ed	3
Senior Level (taken concurrently)			
SPED	4135	Professional Field Exp	9
EDUC	4000	Teacher & Classroom	3

TOTAL CREDITS 145

SPECIAL NOTES:

¹University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

² Grade of B- or better is required

³ Requires advisor permission

⁴ 3.0 cumulative G.P.A. is required

⁵ Required Course

⁶ All ADDITIONAL REQUIRED COURSES require a grade of C or better, EXCEPT Human Exceptionality which requires at B- or better.

*G.E. required course

**Course required by Major

HONORS

The department of history honors program is an undergraduate history major program option dedicated to serving history majors performing at the highest level of achievement through a challenging curriculum of undergraduate instruction in history. Students who meet the stated qualifications are invited to apply for admission to the program. The rigorous program trains students in the intellectually demanding and creative work of conducting original research, engaging in sophisticated historical analysis of their findings, and cultivating their ability to write analytically. In completing the program, students will assemble a portfolio of original research and writing that will enable them to demonstrate their preparedness for graduate-level work in history and related fields.

Additional information and an application for the History Honors Option can be found at: <http://history.kean.edu/programs>

B.A. HISTORY – HONORS OPTION

GENERAL EDUCATION 43-45

FOUNDATION REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

***ENG 1030 Composition 3

**MATH 1000, 1010, 1016, 1030, 1054 3

COMM 1402 Speech Communication 3

GE 2023 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

Choose two from different areas:

Fine Arts/Art History 3

Philosophy or Religion 3

Foreign Language

(Must take I and II for credit) 3

Music or Theater 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

Choose two from different areas:

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science and Mathematics 10-11

**MATH 1010, 1016, or 1030,

OR CPS 1031 or 1032 3

Lab Science (select two courses): Biology, Chemistry, Physics, Geology, Meteorology, Earth Science, Astronomy 4

Additional Science course: ID or one different science course from above 3-4

Health and Physical Education 2-3

ID 1225 Issues in Contemporary Health 3

OR

ID 1010 Leisure & Recreation in Multicultural Society 3

OR

TWO one credit PED courses 2

ADDITIONAL REQUIRED COURSES 12

Four additional courses in COMM, ENG, FL, PHIL, ANTH, SOC

PS, PSY, ECON (not required of those with second major, minor, collateral) at 3000-4000 level

ACADEMIC MAJOR (ONLY 2 C'S) 45

*****REQUIRED: FOUNDATION CORE 15**

HIST 1030 Western Civilization I² 3

OR HIST 2060 World Civilization I 3

HIST 1040 Western Civilization II² 3

OR HIST 2070 World Civilization II 3

HIST 2303 US History to 1877 3

HIST 2304 US History 1877 to present 3

One 2000 level course from world areas:

African, Asian, Latin American,

Middle Eastern History 3

REQUIRED: ADVANCED COURSES (3000-4000 LEVEL) 12

A. One 2000-4000 level course (from different world areas than above):

African, Asian, Latin American, Middle

Eastern History 3

B. One 3000-4000 level courses

in American History 3

C. One 3000-4000 level courses

in European History 3

D. One 3000-4000 level course in Comparative/Thematic History 3

REQUIRED: ADVANCED MAJOR ELECTIVES: 3000-4000 LEVEL 6

HIST 4991 (recommended) 3

HIST (world area recommended) 3

REQUIRED: HONORS COURSES 9

HIST 4900/4901/4902 Honors 3

Reading Seminar

HIST 4900/4901/4902 Honors 3

Reading Seminar

HIST 4988 Honors Thesis 3

*****GE AND MAJOR CAPSTONE 3**

HIST 4990 Senior Seminar² (Writing Emphasis) 3

FREE ELECTIVES (AT LEAST 50% MUST BE 3000-4000)³ 22-24

TOTAL 124

SPECIAL NOTES:

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

² Requires advisor permission

³ Free electives should not include History courses

*GE required course

**Course required by major

***Grade of B- or better is required

HISTORY COURSES

INTRODUCTORY

HIST 1000 History of Civil Society In America (3)

Introduction to American history through the growth of values shaping American society, with comparisons to cross-cultural case studies. Historical antecedents of modern America, with special focus on the interrelationships between institutions and individuals that have shaped the idea of civil society in the United States, and the applicability of the American experience to understanding other historical contexts. This course is no longer being offered. Students should take HIST 1062 to fulfill the GE History Requirement.

HIST 1020 Roots of the Present (3)

Historical approach to the origins of current world, national and local problems. Historical approach to analyses of and written exercises about current problems.

HIST 1030 History of Western Civilization I (3)

A survey of the historical development of Western civilization from early times to the seventeenth century. Special attention given to cultural integration and diffusion, to institutions and ideas, and to the social construction of racial, ethnic, class and gender identities within diverse historical settings. Situates the Western experience within its wider global historical context.

History 1030 will not be offered after Spring 2015. Students should take HIST 2060 instead.

HIST 1040 History of Western Civilization II (3)

A survey of historical development of Western civilization from the mid-seventeenth century to the present. Special attention given to cultural integration and diffusion, to institutions and ideas, and to the social construction of racial, ethnic, class, and gender identities within diverse historical settings. Situates the Western experience within its wider global historical context.

History 1040 will not be offered after Spring 2015. Students should take HIST 2070 instead.

HIST 1062 Worlds of History (3)

Freshman seminar which introduces students to the history of world civilizations and historical thinking. Gives students an understanding of major developments in human civilization. Teaches students to think historically by studying human change critically and analytically through the analysis of both pivotal moments in world history and the in-depth analysis of a dedicated theme. (E)

Fulfills GE History Requirement

HIST 2060 World Civilization I (3)

An introduction to the history of world civilizations and historical thinking from the beginning of human civilization to 1500, the first truly global age. The course gives students an understanding of the past as it relates to both the present and future, with an emphasis on the emergence of institutions, cultures, and religions, and the importance of global encounter in shaping history. (E)

This course replaces HIST 1030 but is not equivalent to HIST 1030.

HIST 2070 World Civilization II (3)

An introduction to the history of world civilizations and historical thinking from 1500, the first truly global age, to the present. The course gives students an understanding of the past as it relates to both the present and future, with an emphasis on the emergence of institutions, cultures, and religions, and the importance of global encounter in shaping history. (E)

This course replaces HIST 1040 but is not equivalent to HIST 1040.

COMPARATIVE/THEMATIC

1000 LEVEL COURSES

HIST 1060 From Scientific Revolution to Democratic Revolutions (3)

The Intellectual Revolution of the 17th and 18th centuries with special emphasis on the resultant revolutionary upheavals from England to Russia.

HIST 1061 Freedom and Organization: Nationalism, Imperialism and Industrialism (3)

The events of the century and a half after the end of the Napoleonic Wars which illuminate the problems of Western man. The contemporary search for balance between individual freedom and submission to authority is the lens through which the course is focused.

2000 LEVEL COURSES

HIST 2000-2001 Historical Explorations with Film: Scientific Discovery and the Ascent of Man (3,3)

Using the widely acclaimed Ascent of Man film series created by the late Jacob Bronowski, course explores the great moments of scientific discovery against a historical perspective which spans over two million years of human history from the earliest flint tools to the theory of relativity.

HIST 2120 World Archaeology (3)

Archaeology as a method of historical inquiry; relationship of archaeological and literary evidence; survey of major archaeological sites.

3000 LEVEL COURSES

HIST 3000 Perspectives on History (3)

Examination of major human developments, events, ideas and people in history and supporting areas of geography, political science, economics, anthropology, sociology, and psychology. (FA/SP)

Prerequisite: Declared History/Teacher Certification major or Education major with History Content Area

HIST 3241 The Wealth of Nations: Roots of the 20th Century World Economy (3)

The development of modern capitalism and "economic man" up to the twentieth century. Analysis of the history of trade, empire, banking and material civilization which form the essence of our contemporary capitalistic world system.

Prerequisites: Six hours of history or permission of instructor.

HIST 3300 Public History I (3)

An introduction to the new studies in applied history which focuses upon techniques and materials to prepare students for alternative careers for historians in government, corporate, and private organizations. (FA)

Prerequisites: Six hours of history or permission of instructor.

HIST 3301 Public History II (3)

Studies in the management and technology of cultural resource preservation, with emphasis on historic preservation and archival techniques. (SP)

Prerequisites: Six hours of history or permission of instructor.

HIST 3321 History of Medicine (3)

A survey of medical history from the ancient world to the nineteenth century. Special attention to case studies that provide insight into major discoveries and understanding of disease, illness, medical practitioners and practice in different historical contexts and cultures. Six hours of history or permission of instructor. (SE)

Previous #: Hist 2050

HIST 3335 Women in Western Civilization (3)

Role of women in Western civilization up to the modern era. Contributions of women as individuals and as part of larger groups. (formerly HIST 1070)

Prerequisite: Six hours of history or permission of instructor.

HIST 3336 Women in the Modern Age (3)

The advances women have made in modern times through protest movements and reform activities; changing conceptions of themselves as having agency (formerly HIST 4841)

Prerequisite: Six hours of history or permission of instructor.

HIST 3843 Sex in History (3)

Sexual codes and customs and how they affected relationships throughout the ages; consideration of sexual attitudes in the context of social, economic and political change. (SO)

Prerequisite: Six hours of history or permission of instructor.

HIST 3850 Explorations in Psychohistory(3)

Assessment of various writings in the field of psychohistory, a discipline which combines the art of psychoanalysis with historical interpretations.

Prerequisite: Six hours of history or permission of instructor.

HIST 3852 History of Science (3)

The history of science from ancient times to the present. General topics include: the origins of science, its development and interaction with society, the impact of science on society-religion, literature, philosophy, and popular culture. (FA)

Prerequisite: Six hours of history or permission of instructor.

HIST 3853 Charles Darwin: A Life and Times (3)

Examination of the career and world of Charles Darwin, founder of modern evolutionary biology. From student to naturalist author, the role of 19th century literature and culture in the writing of *On the Origin of the Species*. (SE)

Prerequisite: Six hours of history or permission of instructor.

HIST 3854 History of Pseudoscience (3)

A social and intellectual history of pseudoscience in American from 1800 to the present. Claims made that the mainstream dismissed as outside the bounds of scientific inquiry or which do not follow the scientific method. (SE)

Prerequisite: Six hours of history or permission of instructor.

HIST 3860 Jewish History to 1789 (3)

The mystery of the Jewish people's survival, from their birth in the Near East and struggles for identity in dispersion, to their interactions with paganism, Christianity, and Islam and search for deliverance in ghettos and the surrounding world.

Prerequisite: Six hours of history or permission of instructor.

HIST 3861 Modern Jewish History (3)

The growth of a distinctive Jewish culture in our time as well as key threats to that culture, from modern Jewry's 18th and 19th century Emancipation from ghetto isolation to the rise and virulence of racial anti-Semitism. (FE)

Prerequisite: Six hours of history or permission of instructor.

HIST 3864 The First World War: A Historical Watershed (3)
An examination of the causes, conduct and world-wide repercussions of the First World War. (FA)
Prerequisite: Six hours of history or permission of instructor. Can be used to fulfill a European history course requirement.

HIST 3865 World War II (3)
An examination of the causes, conduct and world-wide repercussions of World War II. (SP)
Prerequisite: Six hours of history or permission of instructor. Can be used to fulfill European or American history course requirement.

4000 LEVEL COURSES

HIST 4000 Special Topics in History (3)
Study of a particular area of history not covered comprehensively in one of the other advanced (3000 or 4000 level) history courses. Topics to be announced by department. A student may receive credit more than once for HIST 4000 if a different topic is covered each time. (FA/SP)
Prerequisite: Six hours of history or permission of instructor.

HIST 4235 Industrial Revolution: Topics in the History of Technological Society (3)
Selected topics in the social history of machines, their inventors, and industrial revolutions which have transformed world societies with increasing power since the end of the Middle Ages. Extensive investigations of conditions for technological innovation such as war. (SO)
Prerequisite: Six hours of history or permission of instructor

HIST 4236 History of Alchemy and the Origins of Modern Science (3)
The medieval and Renaissance origins of modern science. Practical aspects of alchemy, how it was performed, and the goals of its practice, plus the Islamic, Jewish and Christian components of alchemical philosophy, and its contribution to modern science. (SE)
Prerequisite: Six hours of history or permission of instructor.

HIST 4305 The Atlantic World in the Long 18th Century
Examines the Atlantic World in the long eighteenth century, with focus on the movement of peoples, goods and ideas in the Age of Revolutions. Course will draw heavily upon primary sources in and related to Liberty Hall for case studies of the broader themes under investigation.
Prerequisite: 6 credits of history or permission of instructor

HIST 4320 Pirates and the Atlantic World (3)
Theme of pirates used to understand connections and transformations across the Atlantic world (Europe, Africa, and the Americas) from the late fifteenth century until 1800. Topics include colonization and settlement, labor, race, and ethnicity. Special attention paid to victims of pirates, buccaneers, and privateers and to an exploration of the enduring fascination with pirates. (SE)

HIST 4371 Cold War in History (3)
An examination of the confrontation from 1945-1991 of the two post war nuclear superpowers—the USSR and the United States—and its impact around the world.
Prerequisite: Six hours of history or permission of instructor.

HIST 4374 History of Just War (3)
An historical inquiry into the classical theories of just war, from classical times through the middle ages and into the present. Comparative analysis of a wide variety of religious and cultural perspectives. Emphasis on seminal texts and applications to examples of just war theory in practice in a range of historical circumstances. (FE)
Prerequisite: Six hours of history or permission of instructor.

HIST 4840 Women in History (3)
The role of women in different cultures throughout the ages. The lives of outstanding women and movements seeking greater equality.
Prerequisite: Six hours of history or permission of instructor.

HIST 4850 Emancipation and Liberation: Africana and Jewish Dimensions (3)
An examination of emancipation and liberation movements through study of the Africana and Jewish experiences. Emphasis on these movements' pre-modern origins and on their modern successes and failures.
Prerequisite: Six hours of history or permission of instructor

HIST 4875 The Emergence of Law in Society (3)
Development of the legal norm from the primitive stages of society to the organization of the first legal systems before modern times. (FE)
Prerequisites: Six hours of history and/or political science or permission of instructor.

HIST 4876 Human Evolution and Modern Society (3)
An examination of the history of evolution studies, focusing on the controversial aspects of human evolution and how it impacts health care, religious culture, politics, and public education, from the 1600s to the present. (SO)
Prerequisite: Six hours of history or permission of instructor.

HIST 4882 Modern Scientific and Technological Impact (3)
A comparative study of the impact of modern science and technology upon Christian, Islamic, African and Asian religious beliefs, showing their varied and unsettling effects upon traditional cultural patterns and ideals.
Prerequisite: Six hours of history or permission of instructor.

EUROPEAN HISTORY

3000 LEVEL COURSES

HIST 3110 Greek Civilization (3)
Hellenic history and culture from prehistoric origins to the creation of the Graeco-oriental or "Hellenistic" civilization. Political experience of the Greeks and their intellectual and artistic contribution to Western civilization. Formation of the Polis, Greek imperialism, the heroic and tragic world-view and the develop-

ment of philosophic method. (FO)
Prerequisite: Six hours of history or permission of instructor.

HIST 3120 Roman Civilization (3)
Rome's growth and decline from Etruscan times to the barbarian invasions. Rome's success in creating a government unity throughout the Mediterranean world. The internal consequences of the acquisition of empire. (SE)
Prerequisite: Six hours of history or permission of instructor.

HIST 3121 The Ancient City (3)
Urbanization from the beginning of history to the fall of the Roman Empire. Study of the problems faced by early city dwellers as related to the modern urban situation.
Prerequisite: Six hours of history or permission of instructor.

HIST 3231 Medieval Europe: History and Civilization I (3)
Europe from the barbarian invasions to the Renaissance of the 12th century. A survey of the history, institutions and culture of the middle centuries of Western civilization. (FE)
Prerequisite: Six hours of history or permission of instructor.

HIST 3232 Medieval Europe: History and Civilization II (3)
The height of the Middle Ages; the decline and end of medieval civilization. (SO)
Prerequisite: Six hours of history or permission of instructor.

HIST 3233 England in the Middle Ages (3)
England from the coming of the Anglo-Saxons to the Tudor Era; Pre-Christian English society, the Danish and Norman conquests and occupations, fruition under the early Plantagenets. The development of Parliament, the Hundred Years' War and the War of the Roses. (SO)
Prerequisite: Six hours of history or permission of instructor.

HIS 3234 Europe in the Seventeenth Century (3)
The political, economic, and cultural history of Europe in the seventeenth century. Emphasis on the role of Old Regime politics, social order, court culture, globalization, and religion in shaping models of seventeenth century state building. (SO) (S)
Prerequisite: Six hours of history or permission of instructor.

HIST 3235 Europe in the Eighteenth Century (3)
The intellectual, cultural, and political revolutions that took place across Europe over the course of the long eighteenth century. Emphasis on the impact of the Enlightenment, as well as cultural and social tensions on the political order, culminating in the French Revolution. (FA)
Prerequisite: Six hours of history or permission of instructor.

HIST 3236 The Tudor-Stuart Age: Society in Conflict (3)
Study of 16th and 17th century England as a period of ferment and revolution. Focus will be on the political and religious upheavals, cultural achievements, economic changes and overseas expansion which characterized the Age. (SP)
Prerequisite: Six hours of history or permission of instructor.

HIST 3237 The Emergence of Modern England: 1689-1815 (3)

England's progress during the 17th and 18th centuries toward big power status. Cultural, political and social developments discussed with emphasis on England's emergence as a modern industrial power. Literary as well as historical sources used. *Prerequisite: Six hours of history or permission of instructor.*

HIST 3238 The Age of Reform: England Since 1815 (3)

Describes the political and social reform movements in England: the emergence of liberalism and the fight for an extended suffrage; the conflicts between laissez-faire and state intervention; isolationism and interventionism. Literary as well as historical sources used.

Prerequisite: Six hours of history or permission of instructor.

HIST 3239 France and the Revolutionary Tradition Since Napoleon (3)

History of modern France, highlighting the impact of modern ideologies of social change and revolution upon French politics and culture since 1815. Emphasis placed on the uniquely French responses to the great social transformations which have fashioned the contemporary world society.

Prerequisite: Six hours of history or permission of instructor.

HIST 3241 The Wealth of Nations: Roots of the 20th Century World Economy (3)

The development of modern capitalism and "economic man" up to the twentieth century. Analysis of the history of trade, empire, banking and material civilization which form the essence of our contemporary capitalistic world system. *Prerequisite: Six hours of history or permission of instructor.*

HIST 3242 Europe Since 1870 (3)

Changes in European societies since the unification of Italy and Germany, with particular attention to nationalism and imperialism, democracy and dictatorship. Post-war trends toward European integration assessed in terms of Europe's position in the late 20th century world. (SP) (S)

(Formerly HIST 4237)

Prerequisite: Six hours of history or permission of instructor.

HIST 3244 The Nazi Era: Germany Before the Holocaust (3)

The political and social history of totalitarian Germany under Hitler, culminating in world war and genocide. (FA)

Prerequisite: Six hours of history or permission of instructor.

HIST 3245 The Holocaust: 1939-45 (3)

Examines the main aspects of The Holocaust—the mass murder of European Jews and other victims—standing as the horrific event and a twentieth century major crime. Issues covered include: tension between the extermination process and the Nazi war economy, development and effectiveness of resistance by Jews and other victims, responses of the Allies to the Holocaust, and the legacy for modern humanity and the contemporary world. (SP)

Prerequisite: Six hours of history or permission of instructor.

HIST 3250 Rise and Fall of the British Empire (3)

An analysis of the origins, development, and decline of the British Empire from the seventeenth to the mid-twentieth century with emphasis on commercial penetration; settlement; military conquest; cultural imperialism; race, class, gender, and empire; and cooperation and resistance as aspects of globalization and modernization. (FA)

Prerequisite: Six hours of history or permission of instructor.

HIST 3252 European Intellectual History in the 19th and 20th Centuries (3)

An examination of the main currents of European thought in the 19th and 20th centuries. Emphasis on source readings and discussions in philosophy, literature, science, political, literary and artistic theory. Also, an attempt to trace of the history of ideas.

Prerequisite: Six hours of history or permission of instructor.

HIST 3260 Renaissance Europe (3)

Focuses on the intellectual, cultural, and social revolutions from 1350 to 1600. Initial emphasis will be placed on the emergence of the Renaissance in Italy, and process its spread across Europe. (FA) (SP)

Prerequisite: Six hours of history or permission of instructor.

HIST 3261 Reformation Europe (3)

An analysis of the causes, course, and consequence of the European Reformations of the sixteenth century. Special attention will be paid comparing religious, political, and social contexts. (FE) *Prerequisite: Six hours of history or permission of instructor.*

HIST 3273 Ireland: Mystique and History(3)

A study of the history of Ireland beginning with legends and myths, then the impact of the arrival of Christianity on Irish culture and society. Also the role of modern myth and traditions in Irish society. (SE)

Prerequisite: Six hours of history or permission of instructor.

HIST 3274 Ireland: 1801-1977 (3)

A study of the history of Modern Ireland from the Act of Union to the present. The struggle for independence as well as social and cultural changes after the Famine. The development of modern Ireland from industrialization to entry into European Union. (FE)

Prerequisite: Six hours of history or permission of instructor.

HIST 3280 Spain: The Rise of the First World Power (3)

The historical development of the Iberian peninsula from the earliest times to the moment of emergence of Spain as a unified state.

Prerequisite: Six hours of history or permission of instructor.

HIST 3281 Imperial Spain (3)

The Spanish Empire and its development from 1516 to 1700; the social, political, economic and religious factors that contributed to its development and eventually to its downfall.

Prerequisite: Six hours of history or permission of instructor.

HIST 3845 Witchcraft in the Western Tradition (3)

History of the belief in and fear of witches from ancient times to the present with an emphasis on the witch trials in Europe and America from the 15th through the 17th centuries with a focus on the intellectual, cultural, and social factors shaping the trials and their eventual decline. (FE)

Prerequisite: Six hours of history or permission of instructor.

4000 LEVEL COURSES

HIST 4110 The Roman Revolution: 133 B.C.-A.D.14 (3)

A study of the social and political upheavals of the late Roman Republic, 133 B.C.-A.D. 14, commonly referred to as the Roman Revolution; in-depth study of some personalities of the last generation of the republic; causes of the fall of republican form of government and the rise of autocracy.

Prerequisite: Six hours of history or permission of instructor.

HIST 4111 The Roman Empire (3)

In-depth study of the Roman Empire, from the transformation of a Republic under Julius Caesar and Augustus to the fall ca. AD 475. Special attention paid to political events; contemporary sources and modern interpretations; social changes; religious conflict and synthesis; the machinery and ideology of empire; and culture. (SE)

Prerequisite: Six hours of history or permission of instructor

HIST 4120 Archaeology (3)

Introduction to the methods of archaeology and survey of recent archaeological excavation. Emphasis on classical archaeology but study of other cultures included.

Prerequisite: Six hours of history or permission of instructor.

HIST 4140 The Trojan War (3)

History and historiography concerning the Trojan War. Earliest source material compared with modern archeological and technological discoveries. Special topics include: Minoan, Mycenaean, and Hittite culture; military technology; leadership; mythology; trade; artistic and literature depictions through modern times.

Prerequisite: Six hours of history or permission of instructor.

HIST 4150 Athens in the Age of Pericles (3)

The history of Athens during the height of its greatness, the fifth century, B.C.; the origins and development of Athenian democracy and empire; surviving monuments, both literary and artistic, as sources for Athenian history; the war with Sparta as precursor to the degeneration of 5th century values and culture; acknowledgment of the legacy of Athens. (FO)

Prerequisite: Six hours of history or permission of instructor.

HIST 4152 Alexander the Great: History and Legend (3)

History and historiography concerning Alexander the Great. Expansion from Macedonia to Asia and special topics: military prowess, leadership skills, enculturation and other strategies for empire-building to use of his alleged divinity, the myth of Alexander. (FO)

Prerequisite: Six hours of history or permission of instructor

HIST 4220 The Revolutionary Era: 1789-1870 (3)

A detailed examination of the French Revolution of 1789 is followed by a study of its legacy. The role of nationalism, the development of socialism in 19th century Europe, the unification of Italy and Germany and the emergence of realpolitik. (SE)

Prerequisite: Six hours of history or permission of instructor.

HIST 4233 Tsarist Russia: From the Moscovite Period to the Great Emancipation (3)

Imperial Russia under the Rurik and Romanov Tsars studied as an important aspect of the growth of European Absolutism and the social system of the Old Regime. The unique problems of the Moscovite state traced to the eve of the Russian Revolutionary Movement. Culture, personalities and institutions critically evaluated by readings in the classic and contemporary literature. (FA)

Prerequisite: Six hours of history or permission of instructor.

HIST 4234 Revolutionary and Soviet Russia, and Beyond (3)

Modernization and revolution in modern Russia from the crises of the 1990's. Russia's participation in the critical moments of the last century; the industrial revolution, world wars, and the continuing ideological struggle between varying forms of liberalism and communism. The problems of continuity and change in modern Russia since 1917, highlighted by readings and discussions. (SP)

Prerequisite: Six hours of history or permission of instructor.

HIST 4238 History of Germany, 1805 to Present (3)

A discussion of how the German people came to support 19th century Wilhelmine authoritarianism and permit moral anarchy in the Weimar 1920s and terror and destruction in the Nazi era. An exploration of the interplay between ideas and power. (SE)

Prerequisite: Six hours of history or permission of instructor.

HIST 4241 Weimar Germany (3)

An examination of the economic, social, political and cultural life of Germany from 1919 through 1933. Particular emphasis is placed upon roles of women, labor, the arts and cinema, and political dissidents in the development and collapse of democracy in Germany. (FO)

Prerequisite: Six hours of history or permission of instructor.

HIST 4242 Twentieth Century France: Imperial Glory to Identity Crisis (3)

Twentieth century France traced from the aftermath of the Dreyfus Affair to the present. The struggles of a declining European "great power" to preserve its historical role, cultural "mission," and national identity amidst the catastrophic transformations of the twentieth century, the decline of imperial Europe and the restructuring of the world into ideological spheres controlled by superpowers.

Prerequisite: Six hours of history or permission of instructor.

HIST 4250 The Papacy and Its History (3)

The political development of the Papacy and its role and influence in shaping Western history and civilization. (SE)

Prerequisite: Six hours of history or permission of instructor.

AMERICAN

1000 LEVEL COURSES

HIST 1000 History of Civil Society in America (3)

Introduction to American History through the growth of values shaping American society, with comparisons to cross-cultural case studies. Historical antecedents of modern America, with special focus on the interrelationships between institutions and individuals that have shaped the idea of civil society in the United States, and the applicability of the American experience to understanding other historical contexts. (E)

2000 LEVEL COURSES

HIST 2303 United States History to 1877 (3)

A survey of the history of the exploration, settlement and development of the United States from the pre-Columbian period through the Civil War. Special emphasis is placed upon the contributions of Native Americans, African-Americans, Hispanics, women and working class peoples in the social, political and economic development of early American society. (E)

HIST 2304 United States History From 1877 to Present (3)

A survey of recent American history from the Reconstruction period to the present. Particular emphasis is given to the emergence of the United States as a world power and to the contributions of labor, women, and peoples of color in the building of contemporary society. (E)

3000 LEVEL COURSES

HIST 3010 American History Through Film (3)

An historical examination principally through the use of film, video, tapes, and other mass media of the major political, economic, social, and cultural developments in United States history. (FA)

Prerequisite: Six hours of history or permission of instructor.

HIST 3305 The History of the Black American to 1900 (3)

African-American history from the colonial period to 1900, stressing African roots, slavery, Reconstruction and the era of Jim Crow. (FO)

Prerequisite: Six hours of history or permission of instructor.

HIST 3306 20th Century Black History (3)

The development of the African-American community during the 20th century, from the Age of Accommodation to the rise of Black militancy in the 1960s and beyond. (SE)

Prerequisite: Six hours of history or permission of instructor.

HIST 3323 History of American Medicine(3)

Survey of the development of the medical profession in the United States. Medical education and practice, scientific research, public health and their institutions. (SO)

Prerequisite: Six hours of history or permission of instructor.

HIST 3324 The American West (3)

An examination of the social, economic and political factors that led to the exploration and settlement of the American West. Special emphasis is placed upon the historical contributions of Native Americans, Hispanics, Asians, African-Americans, women, and other ethnic, political or cultural minorities to the development of the West. The role of the West in the American imagination and national identity is also examined. (FA/S)

Prerequisite: Six hours of history or permission of instructor.

HIST 3326 History of New Jersey (3)

Social and political development of New Jersey within context of American history. (E)

Prerequisite: Six hours of history or permission of instructor.

HIST 3329 History of Religion in America (3)

In depth study of the impact of religion on America from pre-colonial times to the present. Special consideration to intersection of politics and religion. Attention given to contemporary sources and modern interpretations. Particular topics might include: Native American spirituality, Puritanism, the Great Awakening, the Enlightenment, Revivalism, the rise of denominationalism, the emergence of sects and cultures, African-American religions, and civil religion. (SO)

Prerequisite: Six hours of history or permission of instructor.

HIST 3330 The Labor Movements in America: 1864 to Present (3)

Analysis of the reaction of the American working class to the rise of the industrial state. Examination of the trade union movement and the millenarian movements.

Prerequisite: Six hours of history or Permission of instructor.

HIST 3331 The History of Sports in the United States (3)

The history of the United States during the two hundred years of this nation's existence; the birth and phenomenal growth of sports in the United States and the relationship of sports to American society. (SP)

Prerequisite: Six hours of history or permission of instructor.

HIST 3340 20th Century America (3)

An examination of the major economic, social, political and diplomatic trends in the 20th century, with emphasis on the quest for social justice at home and abroad. (SE)

Prerequisite: Six hours of history or permission of instructor.

HIST 3341 End of American Innocence: The 1920s (3)
The emergence of flappers, flivvers, prosperity, prohibition, conservatism, jazz, the Ku Klux Klan, Republican dominance, and a literary Renaissance. (SO)
Prerequisite: Six hours of history or permission of instructor.

HIST 3360 History of Business in America (3)
Survey of rise of American business institutions and practices from colonial times to present. Emphasis on influence of businessmen in shaping of American values and the role of American businessmen in contemporary society.
Prerequisite: Six hours of history or permission of instructor.

HIST 3363 America in the 1960's: The Turbulent Decade (3)
Study of the social, political, economic, philosophical and religious tensions in America in the 1960's including involvement in Vietnam and role of the media. Special attention to the dynamic influence of American youth. (FA)
Prerequisite: Six hours of history or permission of instructor.

HIST 3365 From Immigrants to Citizens: History of Latinos in the United States (3)
Historical perspective on why some people emigrate from certain areas of Latin America and the social, cultural and economic problems related to the making of Latino communities in the United States. Emphasis on both earlier and contemporary immigration waves with particular attention to the experience of Latinos in the New York/New Jersey region. (SO)
Prerequisite: Six hours of history or permission of instructor.

HIST 3863 American Jewish History (3)
The development of American Jewry from the arrival of Jews in colonial America to the present day. Four periods of migration; Sephardic (1654-1840). German-Jewish (1830-1880), East European (1880-1924), and postwar suburban (1945-the present). Focus on the evolution of American-Jewry and its relationship with American public and civic life. (SO)
Prerequisite: Six hours of history or permission of instructor.

HIST 3999 The American Experience in Vietnam (3)
An analysis of American involvement in Vietnam from 1945-1975. Examination of military, political, and social factors in Vietnam and the United States including the anti-war movement and post-war issues. (FO/SE)
Prerequisite: Six hours in history or permission of instructor.

4000 LEVEL COURSES

HIST 4317 Colonial America (3)
Introduce students to the literature of Colonial America from the pre-Columbian period through the Seven Years' War. It will examine several of the major themes in colonial history, including the nature of the colonists, the development of slavery and the creation of a distinct American society. (FE)
Prerequisite: Six hours of history or permission of instructor.

HIST 4318 The American Revolution (3)
Examines the American Revolution from the initial tensions between the colonists and Great Britain through the conclusion of the War for Independence, and the creation of the Constitution. Political, social, economic, and constitutional issues will be examined. (FO)
Prerequisite: Six hours of history or permission of instructor.

HIST 4320 Pirates and the Atlantic World (3)
Theme of pirates used to understand connections and transformations across the Atlantic world (Europe, Africa, and the Americas) from the late fifteenth century until 1800. Topics include colonization and settlement, labor, race, and ethnicity. Special attention paid to victims of pirates, buccaneers, and privateers and to an exploration of the enduring fascination with pirates. (SE)
Prerequisites: Six hours of history or permission of instructor.

HIST 4321 American Liberty and Law (3)
After a brief introduction to the Supreme Court and Constitution, a detailed analysis of the growth and development of the Bill of Rights. A probe into topics such as how free speech actually is, what religious liberty means, what the right of privacy entails, and what rights the accused person has. (FO)
Prerequisites: Six hours of history or permission of instructor.

HIST 4323 The New Nation (3)
Examination of the period from the writing of the United States Constitution through the presidency of James K. Polk, including topics such as the development of an American identity, manifest destiny and the expansion of the United States, and the paradoxical development of slavery and freedom. (SO)
Prerequisite: Six hours of History or permission of instructor.

HIST 4350 America in the Gilded Age, 1865-1905: The Making of Modern America (3)
The History of the United States from the end of the Civil War, in 1865 to the first decades of the 20th Century.
Prerequisite: Six hours of history or permission of instructor.

HIST 4351 America 1945 to the Present (3)
The History of the United States from 1945 to the present.
Prerequisite: Six hours of history or permission of instructor.

HIST 4361 The American City (3)
The growth of urban America, beginning with the colonial seaports through the 20th century, including the spread of industrialization, transportation and communication. The impact of the city on American culture. Present day problems include: race relations, the population explosion, the rise of suburbia, and the development of megalopolis.
Prerequisite: Six hours of history or permission of instructor.

HIST 4364 History of the North American Indian (3)
Survey of the history and culture of the North American Indian from primeval times to the contemporary period. (FO)
Prerequisite: Six hours of history or permission of instructor.

HIST 4365 American Foreign Affairs I: 1775-1899 (3)
A basic survey of American diplomatic history to 1899 dealing with the formation and implementation of American foreign policy with a view to its effect on the world situation and domestic developments.
Prerequisites: HIST 2303-2304 or permission of instructor.

HIST 4366 The United States Becomes a Super Power: American Foreign Affairs II: 1899 - Present (3)
The emergence of the United States as a world power, examined with particular attention to imperialism, World Wars I and II, and the Cold War.
Prerequisites: HIST 2303-2304 or permission of instructor.

HIST 4367 The History of American Immigration (3)
American society as a mosaic made up of various immigrant groups. Each successive wave of newcomers treated separately: their origins and character; their settlement and reception in the United States; their reaction to the new world; their impact on their adopted country; the effect of the exodus on their homelands; and United States immigration policies. (FA/SP)
Prerequisite: Six hours of history or permission of instructor.

HIST 4368 The Civil War and Reconstruction (3)
Inquiry into social classes in the Old South; slavery as an institution; the Civil War on the military, home, and diplomatic fronts; Reconstruction; Grantism. Emphasis on the study of various schools of historical thought on the character of slavery, on the causes of the Civil War, and on the nature of Reconstruction. (FA)
Prerequisite: Six hours of history or permission of instructor.

HIST 4370 The Modern Civil Rights Movements in the United States (3)
An Examination of the mid-twentieth-century movement for social, political, cultural, and economic rights for African Americans in the United States with an emphasis on its roots, the barriers to social progress, its key figures, the role of gender and class, and its outcomes. (SO)
Prerequisite: Six hours of history or permission of instructor.

HIST 4372 The American People In Depression and War 1929-1945 (3)
In depth study of the Great Depression of the 1930s leading up to and including the United States' response to and participation in the Second World War, 1931-1945.
Prerequisite: Six hours of history or permission of instructor.

LATIN AMERICAN

2000 LEVEL COURSES

HIST 2381 Colonial Latin America (3)
An introduction to the history of Latin America from the Pre-Columbian Civilizations to the end of the colonial times. Emphasis on the encounter of peoples of Amerindian and Iberian cultures and the process of conquest, resistance and mutual transformation that ensued over the next three centuries, the emergence of a colonial society, the imperial efforts to reform and adjust the colonies to a changing international order, and the process that culminates in the wars of independence. (FA)

HIST 2382 Modern and Contemporary Latin America (3)
An examination of the historical tides that have shaped contemporary Latin America and the Caribbean in a neo-colonial context. Emphasis on the making of new nations and problems of sovereignty, reformist and revolutionary political processes, democratic and authoritarian experiences, the quest for economic development, the persistence of societal inequities, racial and gender relations, labor, urbanization and migration, religion, and popular culture. (SE)

3000 LEVEL COURSES

HIST 3381 History of Cuba (3)
An examination of changes and continuities in the making of modern Cuba. Emphasis on the colonial experience under Spanish rule, the neo-colonial relation with the United States during the first half of the 20th century, the consolidation and crisis of contemporary Socialist Cuba. Special attention to issues such as the dominant role of sugar in Cuban economic and social history, race relations, and national identity. (FO)
Prerequisite: Six hours of history or permission of instructor.

HIST 3382 History of Mexico and Central America (3)
Historical survey of Mexico and Central America from the conquest to the war on terror. Emphasis on race and gender and on the relationship of Mexico and Central America with the United States. Focus on the role of migration – internal, regional and international – and the influences of diaspora communities both abroad and in their home countries. (SE)
Prerequisite: Six hours of history or permission of instructor.

HIST 3383 History of the Caribbean (3)
An examination of the social, political, economic, and cultural issues of the Caribbean and Central America from Pre-Columbian times to the present. Special emphasis on problems of slavery and ethnicity, Spanish, French and British Colonialism, political fragmentation, nationalism, and neo-colonial relationships with the United States. (SE)
Prerequisite: Six hours of history or permission of instructor.

4000 LEVEL COURSES

HIST 4362 Amerindian Peoples of the Andes: The Incas (3)
Examination of the Andean civilizations, their economic, social and cultural developments and their legacies in the colonial and neo-colonial times. Special attention to historiographical debates, issues of material life and the environment, socio-political organizations, labor systems and technology, religion, problems of ethnohistory, and the impact of the European conquest.
Prerequisite: Six hours of history or permission of instructor.

HIST 4363 Amerindian Civilizations in Mesoamerica: Aztecs and Mayas (3)
Examination of the Aztec and Mayan civilizations, their economic, social and cultural developments and their legacies in colonial and neo-colonial times. Special attention to historiographical debates, issues of material life and the environment, socio-political organizations, labor systems and technology, religion, problems of ethnohistory, and the impact of the European conquest.
Prerequisite: Six hours of history or permission of instructor.

HIST 4384 History of Brazil (3)
An introduction to the Brazilian experience from the colonial times to the present. Emphasis on the legacies of slavery and the plantation system; race relations and the idea of a “Brazilian racial democracy,” modernization, economic growth and social inequalities in a peripheral, neo-colonial context; popular music, soccer and carnival in the making of the national Brazilian identity. (FO)
Prerequisites: Six hours of history or permission of instructor.

ASIAN

2000 LEVEL COURSES

HIST 2471 History of East Asian Civilization to 1600 (3)
Survey of the major historical developments in China, Korea, Japan and Vietnam, from earliest times to the seventeenth century. (FA)

HIST 2472 Modernization of China and Japan, 1600 to the Present (3)
The major developments in the recent history of China and Japan with particular reference to changes in institutions and values resulting from Western imperialism in East Asia in the nineteenth and twentieth centuries. (SP)

3000 LEVEL COURSES

HIST 3400 Diplomatic History of the Far East in the 19th and 20th Centuries (3)
A survey of the diplomatic relations and power politics of East Asia; the rise of the Japanese Empire as a world power, and its repercussions on China in particular. (SE)
Prerequisite: Six hours of history and/or political science or permission of instructor.

HIST 3410 China in the 20th Century (3)
A study of Nationalist and Communist China with special emphasis upon the rise of nationalism and the issue of modernization. (SO)
Prerequisite: Six hours of history or permission of instructor.

4000 LEVEL COURSES

HIST 4410 The Rise of Modern Japan, 1600 to Present (3)
Focus on Japan's transition to modernity and its rise to world power status in the twentieth century. (FE)
Prerequisite: Six hours of history or permission of instructor.

HIST 4430 Genocide in Asian History (3)
Exploration of the contested notion of genocide through selected examples of mass death in Asian history. Examination of the events and their impact on perpetrators, victims, and bystanders. Discussion of history and memory, commemoration, reparations and restitution, especially in the context of law and notions of universal rights.
Prerequisite: Six hours of history or permission of instructor.

HIST 4842 The Asian Woman (3)
An overview of continuity and change in the roles and conditions of women in Asia from early times to the present. An exploration of how class and gender create different life possibilities for women; a study of the relationship between individual life histories, the development of consciousness, and historical events; and an analysis of personal documents and fictional writings by Asian women as historical sources.
Prerequisite: Six hours of history or permission of instructor.

AFRICAN

HIST 2500 African History to 1885 (3)
Introductory survey of the origins and flowering of continental civilization in pre-colonial times, including the classical African civilization of Kemet (Egypt), the organization and culture of ancient, medieval and early modern kingdoms, and the logic and legacy of alternative democratic modes of life. Examines controversial role of foreign cultural and economic influences upon the continent from the earliest times through the era of the slave trade. Gives exposure to historical methodology and epistemology of historical knowledge through opportunities to manipulate a wide array of oral, written and non-textual source materials. (FA)

HIST 2510 African History Since 1885 (3)
Introduction to the colonial and postcolonial eras, emphasizing the imposition of structures of alien dominance and the creation of strategies of African resistance. Both hopeful and tragic scenarios in recent history are considered. Particular attention is given to the exploitation of women and children by colonial and postcolonial regimes and the problem of attaining meaningful personal liberation in the family setting. Uses reading, lecture, video, role-playing and group discussion to clarify the dilemmas of, and define the choices available to the continental community today. (SP)

MIDDLE EASTERN

HIST 3600 Historical Survey of Islamic Civilization in the Near East (3)
From the emergence of Islam until the dissolution of the Caliphate in the 20th century. (FA)
Prerequisite: Six hours of history or permission of instructor.

HIST 3610 The Ottoman Empire (3)
A study of the rise and decline of Ottoman power, from vibrant conqueror to "the sick man of Europe." (SP)
Prerequisite: Six hours of history or permission of instructor.

HIST 3620 Modern Israel (3)
Development of Zionism from the era of the French Revolution through the establishment and development of the state of Israel. (FA)
Prerequisite: Six hours of history or permission of instructor.

HIST 4121 The Crusades (3)
Examines the causes, course, and consequences of the medieval Crusades from inter-religious and cross-cultural perspectives. Analyzes especially multiple primary sources and conflicting historiographical interpretations during and after the events. (SO)
Prerequisite: Six hours of history or permission of instructor.

HONORS COURSES

HIST 4900 Honors Seminar in American History
Studies American History in depth and detail for the most advanced students through intensive reading and analysis of primary and secondary sources. Course will engage a variety of topics central to a sophisticated analysis of American History as selected by the instructor.
Prerequisite: Accepted in History Honors Program

HIST 4901 Honors Seminar in European History
Examines European history in depth and detail for advanced students. Course engages a variety of topics central to a sophisticated analysis of European history through intensive reading and analysis of primary and secondary sources.
Prerequisite: Accepted in History Honors Program

HIST 4902 Honors Seminar in World History
Studies World History in depth and detail for the most advanced students. Through intensive reading and analysis of primary and secondary sources. Course engages topics central to a sophisticated analysis of World History as selected by the instructor.
Prerequisite: Accepted in History Honors Program

HIST 4988 Honors Thesis Research Seminar in History
Introduces history honors students to advanced research methods in both primary and secondary sources. Methodologies, analysis, and the writing process will be engaged regularly. Students will begin the process of developing their major honors research topic.
Prerequisite: Accepted in History Honors Program

SEMINARS AND INDEPENDENT STUDY

HIST 3990 Junior Seminar in History
Introduction to historical methodology and historiography. Investigates the major schools of historical thought from antiquity to the present, theories and methods specifically related to the practice of history. Develop critical reading, thinking, information literacy, research, advanced writing, and presentation skills.
Pre-requisite for HIST 4990.

HIST 4990 Senior Seminar in History (3)
Open only to senior history majors. Geared to the highest competency. Exploration of the problems of historical methodology and research. (E)
Prerequisite: HIST 3990, 30 hours of history. Writing Emphasis Course

HIST 4991 Internship and Seminar in Public History (3)
Provides direct participation in doing public history through supervised placement 100 hours in a public or private agency in the region during one semester of the junior or senior year. Supervision provided to discuss the field experience and general problems in public history. Internship planned individually to fit student program. (E)
Prerequisite: Twelve hours of history.

HIST 4995 Independent Study in History(3)
Opportunity for history majors to develop independent research projects in particular fields under the guidance of members of the department. Meeting hours arranged by student and advisor. The student is responsible for the plan of work, its development, and a final presentation in conformity with standards set by the advisor. (E)
Prerequisite: Twelve hours of history.

TRAVEL COURSES

HIST 3150 A Greek Adventure (3)
An archaeological and historical tour of Greece with emphasis on the Bronze Age and the Classical Age. Visits to important archaeological sites and museums on the mainland, Crete and the Aegean Islands. Continuity of cultural institutions from the past to the present. May only be used as a free elective. Graded on pass/fail basis only.
Prerequisite: Six hours of history or permission of instructor.

INTERDISCIPLINARY COURSES

The following are found in the Interdisciplinary courses section. (See Index.)

ID	1800	Holocaust, Genocide, and Modern Humanity	(3)
ID	3100	Greek and Roman Mythology	(3)
ID	3300	Approaches to the Holocaust	(3)
ID	4001	Myth and Symbolism in Pre-Hispanic Mexico	(3)
ID	4002	Egyptian Mythology	(3)
ID	4100	China During the Age of Confucius	(3)
ID	4200	The Victorian Age 1837-1901	(3)

B.A. ASIAN STUDIES

Director, Dr. Xurong Kong

T 117, (908) 737-0250

An Asian Studies degree program provides for the concentrated study of Asian languages, Asian cultures, and Asian societies. Course work provides for the rigorous study of Asia that is essential for future K-12 teachers, future business leaders, and future professionals in multiple arenas including education, politics, art, and diplomacy.

For more information about College of HSS programs, please see:

<http://www.kean.edu/academics/college-humanities-and-social-sciences>

GENERAL EDUCATION 46-48

FOUNDATION REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition² 3

MATH 1000, 1010, 1016, 1030, 1054 3

COMM 1402 Speech Communication 3

GE 2023 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

Choose two from different areas:

Fine Arts/Art History 3

Philosophy or Religion 3

Foreign Language

(Must take I and II for credit) 3

Music or Theater 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

Choose two from different areas:

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science and Mathematics 10-11

CPS 1032 Microcomputer Applications 3

Lab Science (select two courses): Biology, Chemistry, Physics, Geology, Meteorology, Earth Science, Astronomy 4

Additional Science course: ID or one different science course from above 3-4

Health and Physical Education 2-3

ID 1225 Issues in Contemporary Health 3

OR

ID 1010 Leisure & Recreation in Multicultural Society 3

OR

TWO one credit PED courses 2

GE AND MAJOR CAPSTONE: 3

HIST 4990 Senior Seminar⁴ 3

ACADEMIC MAJOR⁴ 42 SH CREDITS

REQUIRED: FOUNDATION CORE 12

CHIN 2101 Intermediate Chinese 3

CHIN 2102 Intermediate Chinese II 3

HIST 2471 History of East Asian Civ 3

AS 2000 Intro to Asian Studies 3

REQUIRED: MAJOR COURSES 18

(Choose 6 from following)

AS 3116 Introduction to Chinese Civil. 3

AS 3451 Images of Asians & Asian Americans 3

AS 3416 Chinese Popular Culture & Films 3

AS 3233 Indian Cinema 3

AS 4991 Internship 3

HIST 2472 Modernization of China and Japan 3

HIST 4842 The Asian Woman 3

PHIL 2203 Philosophies of Asia 3

ENG 3205 Literature of the East 3

ENG 3750 Writers of the Asian Diaspora 3

PS 3430 International Terrorism 3

PS 3490 US-China Relations 3

REL 2700 Eastern Religions 3

SOC 3061 China: Sociological Approach 3

MAJOR ELECTIVES⁴ 12 S.H.

HIST 4999 (Independent Study) 3

Choose 9 credits from the list of approved courses for Asian Studies Program

FREE ELECTIVES: 30-32 S.H.

(At least 50% must be at the 3000/4000 level)

TOTAL 120

Special Notes:

*G.E. required course

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

² A minimum grade of C is required.

³ Credit only upon the completion of two semesters of Elem or Int language. 3 credits for Humanities and 3 for Free Electives.

⁴ All Major courses and capstone require a grade of B- or better. Maximum of two C's in major.

MINOR IN ASIAN STUDIES

REQUIREMENTS 18

FOUNDATION COURSES 6

AS 2000 Intro to Asian Studies 3

AS 3451 Images of Asians & Asian Americans 3

PROGRAM RELATED ELECTIVE COURSES 12

Select 12 credits from list of approved courses below; at least 2 of the courses must be at the 3000-4000 level:

AS 2110 Survey of Chinese Culture

AS 2260 Asian Theatre

AS 3116 Intro to Chinese Civilization

AS 3211 Chinese Literature in Translation I

AS 3212 Chinese Literature in Translation II

AS 3215 Chinese Literature across Media

AS 3231 Indian Bhakti Poetry

AS 3233 Indian Cinema

AS 3416 Chinese Popular Culture & Films

AS 4991 Internship

AS 4999 Independent Study

AH 3750 The Arts of China

AH 3751 The Arts of Japan

AH 3720 The Arts of India

COMM 3613 International Comparative Media

COMM 3623 International News

ENG 3205 Literature of the East

ENG 3365 Post-Colonial Literature

ENG 3725 Ethnic American Literature

ENG 3750 Writers of the Asian Diaspora

HIST 2471 History of East Asian Civilization

HIST 2472 Modernization of China and Japan

HIST 3400 Diplomatic History of the Far East in the 19th & 20th Centuries

HIST 3410 China in the 20th Century

HIST 4410 The Rise of Modern Japan, 1600-1970

HIST 4430 Genocide in Asian History

HIST 4842 The Asian Woman

ID 4100 China During the Age of Confucius

PHIL 2203 Philosophies of Asia

PS 3320 Politics of the Middle East

PS 3330 Far Eastern Politics

PS 3430 International Terrorism

PS 3450 Conduct of US Foreign Policy

PS 3455 Chinese Foreign Policy

PS 3470 The Politics of International Economic Relations

PS 3490 US-China Relations

REL 2700 Eastern Religions

SOC 3061 China: Sociological Approach

MINOR IN CHINESE STUDIES

REQUIREMENTS 18

LANGUAGE COURSES: SELECT TWO FROM THE FOLLOWING:

CHIN 2101 Intermediate Chinese I 3

CHIN 2102 Intermediate Chinese II 3

CHIN	3101	Advanced Chinese I	3
CHIN	3102	Advanced Chinese II	3
CHIN	3110	Business Chinese	3

CHINESE LITERATURE AND CULTURE COURSES: SELECT THREE FROM THE FOLLOWING:

AS	3116	(FL3216) Introduction to Chinese Civilization	3
AS	3211	(FL3550) Chinese Literature in Translation I	3
AS	3212	(FL3551) Chinese Literature in Translation II	3
AS	3416	(FL3556) Chinese Popular Culture and Films	3

BREADTH/COGNATE REQUIREMENTS: SELECT ONE FROM THE FOLLOWING:

HIST	3410	China in the 20th Century	3
AH	3750	Art of China	3

ASIAN STUDIES COURSES

CHIN	1101	Basic Chinese I	(3)
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CHIN 1102 Basic Chinese II (3)
Introduction to the Chinese Mandarin language, focusing on the nature between language and Chinese culture. Emphasis on developing grammatical competence and communicative skills: listening, speaking, reading, and writing in Chinese. Not open to native speakers of Mandarin Chinese. Six credits must be successfully completed to fulfill the three credit hours for General Education Disciplinary Requirement. Lab required. (FA) (SP)
Prerequisite: 0-2 yrs high school Chinese equivalent and permission of instructor. Not open to native speakers of Mandarin Chinese

CHIN	2101	Intermediate Chinese I	(3)
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CHIN 2102 Intermediate Chinese II (3)
Continuation of Basic Mandarin Chinese, focusing on the relation between language and Chinese culture. Emphasis on developing grammatical competence and communicative skills: listening, speaking, reading, and writing. Six credits must be successfully completed to fulfill the three credit hours for General Education Disciplinary Requirement. Lab required. (FA) (SP)
Prerequisite: 1 yr college Chinese or equivalent and permission of instructor.

AS	2000	Introduction to Asian Studies	(3)
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An interdisciplinary survey course that examines Asian culture, history, politics, religion, economics, and international relations; assesses the importance of Asia in the world including the study of the Asian Diaspora; and enhances students' understanding of the Asian region, its peoples, and their interactions. (E)

AS 2110 Survey of Chinese Culture
Vivid introduction to Chinese culture. Aspects like the spirit and core values of Chinese people, religion, literature, music, performing arts, Chinese character and calligraphy, sports and recreation, food and drinks, and education, and so on will be exemplified. Knowledge of Chinese language is not required. (E)

PHIL 2203 Philosophies of Asia (3)
Introduces students to philosophies of Asia through the study of philosophical and religious texts and key concepts. Provides understanding of influence of geographical, historical, and cultural particularities of Asia as alternatives to Western perspectives.

AS 2260 Asian Theatre (3)
Introduction to the aesthetics, history, and performance styles and texts of selected traditional theatrical performance genres in India, China, Japan, and Indonesia. Field trip fees may be required. (SO)
Prerequisite: ENG 1030, AS 2000

HIST 2471 History of East Asian Civilization to 1600 (3)
Survey of the major historical developments in China, Korea, Japan and Vietnam, from earliest times to the seventeenth century. (FA)

HIST 2472 Modernization of China and Japan, 1600 to the Present (3)
The major developments in the recent history of China and Japan with particular reference to changes in institutions and values resulting from Western imperialism in East Asia in the nineteenth and twentieth centuries. (SP)

REL 2700 Eastern Religions (3)
The history and thought of Hinduism, Buddhism, Jainism, Sikhism, Taoism, Confucianism and Shinto; their role in the culture of India, China, Japan, and South East Asia; their impact on the West. (E)

CHIN	3101	Advanced Chinese I	(3)
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CHIN 3102 Advanced Chinese II (3)
Continuation of Intermediate Mandarin Chinese, focusing on the relation between language and culture. Development of grammatical competence and communicative skills: listening, speaking, reading, and writing. Six credits must be successfully completed to fulfill the three credit hours for General Education Disciplinary Requirement. Lab required. (FA) (SP)
Prerequisite: 2 yr college Chinese or equivalent and permission of instructor.

CHIN 3110 Business Chinese (3)
This course is designed for students who are interested in business studies concerning China. It offers systematic descriptions of Chinese language used in business discourse, its vocabulary, syntactic structures and pragmatic usages. This course introduces some typical business activities and business related social events in the Chinese business world. Besides business terms in modern Chinese, students will gain business related social-cultural awareness. (SO)
Prerequisites: Undergraduate status or permission of instructor

COMM 3202 International Film (3)
International and multicultural contributions to the art of film examined through screenings and lectures.

ENG 3205 Literature of the East (3)
Traditional and contemporary writings (epic, novel, poetry, short story, drama) from the Near and Far East examined for literary, aesthetic, and trans-cultural values.

AS 3116 (FL 3216) Introduction to Chinese Civilization (3)
A general survey of Chinese civilization, from antiquity to the present, with an examination of traditional Chinese society and thought from ancient times through imperial China, with an emphasis on the establishment of the empire, the flowering of Chinese culture, and the rich array of intellectual and social development that occurred during the middle and later empires, ending with the exploration of modern Chinese civilization after 1911. (SP)
Prereq: UG status or permission of instructor

AS 3211 (FL 3350) Chinese Literature in Translation I (3)
Broad overview of the literature and civilization of traditional China. Introduction to major work by Chinese writers and of the Chinese cultural context. Understanding of literary theory in general. Knowledge of Chinese not required. (FO)
Prerequisite: None

AS 3212 (FL 3351) Chinese Literature in Translation II (3)
Introduction to the history, themes and forms of Chinese literature from the sixteenth century to the late twentieth century. Inclusion of the most representative works and a number of different ways to approach literary texts critically. Knowledge of Chinese is not required. (SO)
Prerequisite: None

AS 3231 Indian Bhakti Poetry (3)
A survey (from the medieval period to the present) of Indian Bhakti poetry, a type of ecstatic protest verse written by a loosely connected school of poets from both northern and southern India. Critical perspectives include an exploration of not only literary but also psychological, neurological, sociopolitical, historical, and religious implications. All selections will be read in translation. (FA)
Prerequisites: ENG2403

AS 3233 Indian Cinema (3)
Survey of mainstream Indian (Bollywood) cinema, with a view to understanding the relation between Indian culture/society and its cinematic representations, the cinematic resistance to nationalist and patriarchal ideologies as well as the changes brought on by globalization. (E)

PS 3320 The Politics of the Middle East (3)
A comparative study and analysis of the government and policies of the nations of the Levant with major focus on political development and change in the region; emphasis on institutions, leadership, and policy making. (E3)

PS 3330 Far Eastern Politics (3)
A study of political culture, ideologies, political parties, constitutions, governmental institutions and policies in China, Japan, and Taiwan. (E3)

ENG 3365 Post-Colonial Literature (3)
Examination of literatures and literary theories of colonialism and post colonialism, with an emphasis on narrative written in English.

- HIST 3400 Diplomatic History of the Far East in the 19th and 20th Centuries (3)**
A survey of the diplomatic relations and power politics of the Western powers in the Far East; the rise of the Japanese empire as a world power, and its repercussions on China in particular. (SE)
- HIST 3410 China in the 20th Century (3)**
A study of Nationalist and Communist China with special emphasis upon the rise of nationalism and the problems of industrialization. (SO)
- AS 3416 (FL3556): Chinese Popular Culture and Films**
Broad overview of the development of cinemas from China, Taiwan and Hong Kong. Introduction to major works by Chinese directors and of the Chinese cultural context. Knowledge of Chinese not required. (FA)
- PS 3430 International Terrorism (3)**
An examination of the evolution of political violence and the strategies of contemporary terrorism by international and transnational revolutionary groups. A critical analysis of the social, political, economic and legal ramifications on society and governments resulting from international terrorist activities. (E3)
- PS 3450 Conduct of US Foreign Policy (3)**
A study of political and administrative institutions and processes involved in foreign policy making. The development of foreign policy. How political and administrative organizations respond to change. The substance of modern foreign policy questions. (E3)
- AS 3451 Images of Asian and Asian Americans (3)**
A survey of media images of Asians and Asian Americans in the United States from the historical, psychological, social-economic and artistic aspects. Critical analysis of the media impact on race attitude, self-image and cultural and ethnic identities. (SP)
- AS 3455 Chinese Foreign Policy (3)**
This course introduces students to the international relations of the People's Republic of China. It will examine China's Relations with major players and assess how these important relationships have affected- and been affected by- China's rise as a great power
- PS 3470 The Politics of International Economic Relations (3)**
Description and analysis of the reciprocal and dynamic interaction in international relations of the pursuit of wealth and the pursuit of power. A discussion of the role of the United States in the management of post World War II international relations, the emergence of Japan as a superpower, and the developing world's question for a new international economic order. (E3)
- COMM 3530 Communication Across Cultures (3)**
Exploration of theories and methods of communication competence and communication effectiveness in intercultural situations. (FA)
- COMM 3613 International Comparative Media (3)**
A comparative study of broadcast media systems around the world. Students will learn about broadcasting in selected countries and how international media affect and are affected by the relationship between the media and local culture. (E3)
- COMM 3623 International News (3)**
The study of international news and international news organizations and services.
- ENG 3725 Ethnic American Literature (3)**
Study of African, Asian/Pacific, Hispanic, Native American, and other ethnic American literature. (SE)
- ENG 3750 Writers of the Asian Diaspora (3)**
Examination of Asian fiction (including cinematic literature) in the west, particularly in the U.S., with an emphasis on the concepts of diaspora, colonial histories, border identities, and cultural and ethnic representations. (FO)
- AH 3750 The Art of China (3)**
The art of China from Neolithic time to the Ch'ing Dynasty.
- AH 3751 The Art of Japan (3)**
The art of Japan from prehistoric times to the end of the Edo Period with emphasis on painting, sculpture and architecture. (SP)
- AH 3752 The Art of India (3)**
The art and culture of India including Buddhist art, Moslem art, Hindu art and art of Southeast Asia. (FO)
- ID 4100 China During the Age of Confucius (3)**
Ancient China from late Neolithic early imperial times with special emphasis on the Eastern Chou period (770-221 B.C.) An interdisciplinary approach to the history, geography, art, written tradition and archeology of China in this early period of its development.
- HIST 4410 The Rise of Modern Japan, 1600-1970 (3)**
Focus on Japan's transition to modernity and its rise to world power status in the twentieth century. (FE)
- HIST 4430 Genocide in Asian History (3)**
Exploration of the contested notion of genocide through selected examples of mass death in Asian history. Examination of the events and their impact of perpetrators, victims, and bystanders. Discussion of history and memory, commemoration, reparations and restitution, especially in the context of law and notions of universal rights.
- HIST 4842 The Asian Woman (3)**
An overview of continuity and change in the roles and conditions of women in Asia from the earliest times to the present. an exploration of how class and gender create different life possibilities for women.
Prerequisite: six hours of history or permission of instructor
- AS 4991 Internship (3)**
Under the guidance of a University supervisor, students will engage in fieldwork in Asian Studies. Combines work in the field and discussions with supervising faculty members to assist in integrating field experience with coursework in Asian Studies. Career development activities included in the fieldwork. (E)
- AS 4999 Independent Study (3)**
In-depth study of an appropriate topic based on individual interests under the supervision of a member of the program. Meeting hours will be arranged by the student and the instructor. Content must not duplicate any existing course. (E)

School of General Studies

Dr. Karin Beck, Executive Director
CAS-201 (908) 737-0330

The mission of the School of General Studies is to develop students' knowledge and skills acquisition to improve their academic success. The School strategically implements and assesses the General Education Program and its curriculum to support students in completing their degree requirements. The School collaborates with programs that address academic and non-academic issues affecting student retention and integration into the university community.

Through the General Education Program students will learn to integrate knowledge and methods to address historical and contemporary questions. The General Education Program will develop habits of mind including proficiency in communication in both oral and written forms, quantitative literacy, critical thinking, and information and technology literacies.

The General Education Program will instill students with a distinct set of values. These values include ethical judgment and integrity, active citizenship and diversity.

The School of General Studies provides support to first-year students, through experiences that acculturate students to the academic, social and emotional demands of college and modeling behavior designed to ensure retention, successful degree completion, and graduation.

The School of General Studies is committed to creating a sustainable culture of assessment dedicated to advancing Kean University's mission of access and excellence. The School of General Studies provides leadership for the planning and implementation of assessment, student-learning outcomes and faculty/staff-related training.

The General Education Program is the signature of Kean University, branding Kean's unique knowledge and skills on each student and appropriate in rigor and content to build a diverse community of learners consistent with the University's mission. Students are engaged in active learning experiences in a curriculum consisting of a wide-range of liberal arts courses designed to enhance knowledge and skills of all Kean University undergraduate students.

For more information about College of HSS programs, please see:
<http://www.kean.edu/academics/college-humanities-and-social-sciences>

STUDENT LEARNING OUTCOMES

Content (Liberal Arts)

1) Transdisciplinarity (KU4)

The ability to integrate knowledge and methods from different fields to address historical or contemporary questions.

Building Habits of Mind

2) Critical Thinking (KU1)

The ability to utilize reflective analysis to draw informed conclusions.

3) Quantitative Literacy (KU1)

The ability to utilize numerical data accurately and effectively to address real world problems.

4) Communication Literacies (KU1)

The ability to speak and write effectively to convey an evidence-based argument.

5) Information and Technology Literacies (KU2)

The ability to utilize information and communications technology critically and effectively in a rapidly changing world.

Values

6) Active Citizenship (KU3)

A commitment to lifelong civic engagement at a local, national and/or global level.

7) Ethical Judgment and Integrity (KU3)

The ability to draw responsible conclusions from ethical questions to guide personal conduct.

8) Diversity (KU3)

A commitment to promote inclusivity in a diverse world.

GENERAL EDUCATION PROGRAM STRUCTURE

Kean's GE Program has three major components:

- the Foundation Requirements (13 credits)
- the Disciplinary/ Interdisciplinary Distribution Requirements (typically 30 – 32 credits for B.A. degree programs and 19 credits for B.S., B.M., B.F.A., and B.I.D. degrees)
- and the Capstone (3 credits)

GE FOUNDATIONS COURSE REQUIREMENTS

All students must complete the following Foundations courses:

- Transition to Kean or Transfer Transitions
- College Composition (offered in different formats)
- A college-level math course (as specified by the major)
- Speech Communication as Critical Citizenship
- Research and Technology (offered in different versions)

Some students must also complete developmental math and/or reading courses (if required because of placement test scores) as part of their foundational GE coursework.

Transition to Kean (GE 1000): In this one-credit course, students learn about university programs/services and develop academic skills to function successfully in a university setting. **Prerequisites:** none. **Note:** Required of all freshmen and transfers with < 30 credits.

Transfer Transitions (GE 3000): In this one-credit course, transfer students learn the workings of Kean University; academic planning and expectations; writing, research, and other skills needed for success in the intended major; as well as career exploration and planning. **Prerequisite:** ENG 1030 or equivalent; at least 30 credits. **Note:** Required of all transfers with 30 credits or more.

College Composition (ENG 1030 or ENG 1031/1032, or ENG 1033/1034): This course covers expository and persuasive writing for academic purposes. Emphasis is placed on writing as a reflective and social process; writing across the curriculum; critical thinking; and the development of a personal intellectual perspective and style of expression. The ESL equivalent of College Composition is ENG 1430 (College Composition for Non-Native Speakers II) **Prerequisites:** none.

Note: The format of College Composition a student is required to take is determined by placement testing. (Students exempt from placement testing due to their SAT scores or prior college coursework are required to take ENG 1030 unless they have already received transfer credit for a course that fulfills the College Composition requirement.)

College-Level Math Course: Depending on the major, students will be required to take one of the following mathematics courses: Math 1000 (Algebra for College Students, prerequisite: Math 0901, if required), Math 1010 (Foundations of Mathematics, prerequisite: MATH 0901 or MATH 0902, if required), MATH 1016 (Statistics, prerequisite: MATH 0901 or MATH 0902, if required), MATH 1030 (Problem Solving in Math, prerequisite: MATH 0901 or MATH 0902, if required), Math 1044 (Pre-Calculus for Business Majors, prerequisite: MATH 1000), or MATH 1054 (Pre-Calculus, prerequisite: MATH 1000).

Note: The requirement of MATH 0901 or MATH 0902 is determined by placement testing. (Students exempt from placement testing due to their SAT scores or prior college coursework will place into MATH 1000, MATH 1010, MATH 1016 or MATH 1030, as appropriate for their major, unless they have already received transfer credit for a course that fulfills the Foundation Mathematics requirement.)

Speech Communication as Critical Citizenship (COMM 1402): This course addresses understanding and practicing speech communication as a central value of a civil society. It is this value that provides the frame for producing, presenting, interpreting, and evaluating oral messages in dyadic, small group, and public speaking contexts. (E) **Prerequisites:** successful completion of developmental reading (if required); ENG 1031/1032 or ENG 1033 (if required); may be taken concurrently with ENG 1030, ENG 1034 or ENG 1430.

Research and Technology (GE 2021, GE 2022, GE 2023, GE 2024, GE 2025, or GE 2026): This course provides an introduction to the research process, including preparing a formal research paper and an oral presentation with an emphasis on the use of computer technology to design, investigate, and report research activities. **Prerequisites:** successful completion of developmental reading (if required), College Composition, and Speech Communication as Critical Citizenship (COMM 1402). (E)

Note: this course is offered in different versions, as follows: GE 2021 for College of Business and Public Management (BPM) majors; GE 2022 for College of Education (EDU) majors; GE 2023 for College of Humanities and Social Sciences (HSS)

majors; GE 2024 for College of Natural, Applied, and Health Sciences (NAHS) majors; GE 2025 for College of Visual and Performing Arts (VPA) majors; and GE 2026 for Undecided majors and ESL students.

GE DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION COURSE REQUIREMENTS

Students are required to take a specified number of credits (typically 30-32 credits for B.A. degrees and 19 credits for B.S., B.M., B.F.A., and B.I.D. degrees) in the areas described in more detail below, i.e., in the Humanities (GEHU), Social Sciences (GESS), Science & Mathematics (GESM), and (for B.A. degrees only) Health/Physical Education (GEHPE).

For B.A. Degrees

- To fulfill their Humanities requirements, students will complete 9 credits, taking 3 approved courses from 3 of the following 6 areas: Literature, Visual Arts/Fine Arts/Art History, Philosophy/Religion, Foreign Languages, Performing Arts/Music/Theatre, or Interdisciplinary. One of these three courses must be the literature course that is required of all students, ENG 2403 (World Literature). A selection of courses from three different areas is required unless otherwise specified by the major program on the major guidesheet.
- To fulfill their **Social Sciences requirements**, students will complete 9 credits, taking 3 approved courses from 3 of the following 6 areas: History, Psychology, Economics/Geography, Political Science, Sociology/Anthropology, or Interdisciplinary. One of these three courses must be the history course that is required of all students, HIST 1062 (Worlds of History: Traditions and Encounters). A selection of courses from three different areas is required unless otherwise specified by the major program on the major guidesheet.
- To fulfill their **Science & Mathematics requirements**, students will complete 10-11 credits, taking 3 approved courses from 3 of the following 5 areas: Math/Computer Science, Biology, Chemistry/Physics, Astronomy/Earth Science/Geology/Meteorology, or Interdisciplinary. One of these three courses must be an approved math/computer science course (i.e., MATH 1010, MATH 1016, MATH 1030, MATH 1034, CPS 1032 or CPS 1231). Another one of these three courses must be a laboratory-based science course. A selection of courses from three different areas is required unless otherwise specified by the major program on the major guidesheet.
- To fulfill their **Health/Physical Education requirements**, students will complete 2 credits of approved Physical Education courses or the three-credit approved Health course, ID 1225 (Critical Issues & Values of Contemporary Health) or the three-credit approved Recreation course,

ID 1010 (Leisure & Recreation in a Multicultural Society).

For B.S., B.M., B.F.A., and B.I.D. Degrees

- To fulfill their Humanities requirements, students will complete 6 credits, taking 2 approved courses from 2 of the following 6 areas: Literature, Visual Arts/Fine Arts/Art History, Philosophy/Religion, Foreign Languages, Performing Arts/Music/Theatre, or Interdisciplinary. One of these courses must be the literature course that is required of all students, ENG 2403 (World Literature).
- To fulfill their **Social Sciences requirements**, students will complete 6 credits, taking 2 approved courses from 2 of the following 6 areas: History, Psychology, Economics/Geography, Political Science, Sociology/Anthropology, or Interdisciplinary. One of these courses must be the history course that is required of all students, HIST 1062 (Worlds of History: Traditions and Encounters).
- To fulfill their **Science & Mathematics requirements**, students will complete 7 credits, taking 2 approved courses from 2 of the following areas: Math/Computer Science, Biology, Chemistry/Physics, or Astronomy/Earth Science/Geology/Meteorology. One of these courses must be an approved math/computer science course (i.e., MATH 1010, MATH 1016, MATH 1030, MATH 1054, CPS 1032 or CPS 1231). The other course must be a laboratory-based science course.

Only selected, pre-approved courses can be used to fulfill *Disciplinary/ Interdisciplinary* distribution requirements. The list of approved GE distribution courses is posted on the GE website (www.kean.edu/~gened) and is included at the end of this section. Many majors will indicate (on the major guidesheet) specific *Disciplinary/Interdisciplinary* distribution courses their students must take.

GE CAPSTONE REQUIREMENT

A three-credit GE Capstone experience (as determined by each major program) is required of all students. In the Capstone, students will complete projects using the skills developed through the GE Program to demonstrate mastery of their major content. The Capstone will:

- require and facilitate a student project, either research or service-learning oriented, that demonstrates attainment of the cognitive goals of the GE Program, the mastery of the skills developed throughout the GE Program, and the knowledge and skills acquired through the study of a major;
- offer opportunities for students to integrate GE experience with the major; and
- offer opportunities for students to work with students from disciplinary and cultural perspectives other than their own and to investigate areas of knowledge that may be unfamiliar to them.

Successful completion of the project in the

Capstone course will demonstrate that students are active learners who have accumulated knowledge of the liberal arts and sciences, have reached an advanced level of skill proficiencies, can collaborate effectively, and can apply knowledge to the achievement of tasks and the solution of problems.

MINIMUM GRADE REQUIREMENTS IN GE COURSES

Students must earn acceptable grades in courses taken to fulfill GE requirements. Students must earn at least the University-wide standard minimum grade in each GE course or, if applicable, the higher grade in the course that may be required by their particular majors.

- The standard minimum required grade in *College Composition* is "C"; however, some majors require a grade higher than "C".
- The standard minimum required grade in *Transition to Kean* and *Transfer Transitions* is "D".
- The standard minimum required grade in *Speech Communication as Critical Citizenship, Research and Technology*, and GE Academic Foundations Math courses is "D"; however, some majors require grades higher than "D".
- The standard minimum required grade in *Disciplinary/Interdisciplinary Distribution* courses is "D"; however, some majors that require completion of specific *Disciplinary/Interdisciplinary Distribution* courses may require grades higher than "D" in these courses.
- The standard minimum required grade in *Capstone* courses is "C".

Note: No course taken to fulfill a GE requirement may be taken on a pass/fail basis.

GENERAL EDUCATION ADVISEMENT

Students seeking general program information should contact the General Education Office, CAS 201, ge@kean.edu, 908-737-0330. Students who require registration advisement should contact their major advisor, special program advisor, or T2K instructor (as applicable).

Other General Education Services include:

- *Administration of the Transition to Kean course*: GE houses our nationally recognized first year experience course, GE 1000, Transition to Kean. This course is a continuation of the initial Orientation Program, helping students adjust to academic and student life at Kean, along with introducing them to the General Education Program, and emphasizing student success skills. GEP staff schedule and arrange instructors for all sections of the course. This course also provides the Early Warning Intervention and Referral Program for new freshmen, which monitors their performance during their first semester at Kean University.
- *Administration of the Research & Technology Course*: This course is an introduction to

the research process; preparation of a formal research paper and an oral presentation with an emphasis on use of the library and of computer technology to design, investigate, and report research activities. GEP staff schedule and arrange instructors for the college-based Research & Technology course (GE 2021-2026) and also staff, schedule, and maintain the GEP computer classrooms.

- **GEP Assessment:** GEP assessment informs the University about student learning and success. Through appropriate course embedded assessments, student development in GEP is monitored and evaluated. GEP assessment is instrumental in communicating and examining the central GEP goals of knowledge, and skill development. Assessment information is used in curriculum development and improvement. Participation in General Education assessment activities directly benefits students, facilitating their personal growth by providing opportunities to explore their own interests and insights to learning. All General Education assessment data is confidential and reported in aggregate form to the appropriate university constituents.
- **Adjuncts Teaching English And Mathematics (ATEAM):** ATEAM Mission Statement: The ATEAM program will increase student passing rates in essential General Education courses by providing supplemental instruction from adjunct professors, and by providing academic interventions for students who are academically at-risk. Our unwavering focus is to improve student outcomes and foster learning.
- **General Education Mentors (GEM's)** *Upperclass students that mentor first year students as they transition into Kean University. With appropriate training, GEMs assist with peer advisement and registration, welcome students during New Student Orientation, and Co-facilitate Transition to Kean. GEM's continue to assist and support students throughout the first year and assist the efforts of the General Education Program in the School of General Studies.*

APPROVED GE DISTRIBUTION COURSES

Students entering Kean as Freshmen in Fall 2002 and in subsequent semesters must select all GE distribution courses from the following list. Transfer students accepted for admission to Kean starting in Fall 2002 and in subsequent semesters must select all their remaining GE Distribution requirements from the following list. The following codes identify the distribution area in which the course may be used.

GEHU	Humanities
GESS	Social Sciences
GESM	Science and Mathematics
GEHPE	Health and Physical Education

GEHU

AH 1700	
AH 1701	
CDD 1101	
CDD 1102	
CHIN 1101	
CHIN 1102	
CHIN 2101	
CHIN 2102	
ENG 2403	
FA 1000	
FA 2150	
FA 2300	
FA 2950	
FREN 1101	
FREN 1102	
FREN 2101	
FREN 2102	
GERM 1101	
GERM 1102	
GERM 2101	
GERM 2102	
HEBR 1101	
HEBR 1102	
HEBR 2101	
HEBR 2102	
ID 1300	
ID 1500	
ID 3230	
ITAL 1101	
ITAL 1102	
ITAL 2101	
ITAL 2102	
MUS 1000	
MUS 1050	
MUS 1051	
MUS 2201	
MUS 2202	
MUS 2220	
MUS 2950	
PHIL 1100	
PHIL 2300	
PHIL 2505	
PORT 1101	
PORT 1102	
PORT 2101	
PORT 2102	
REL 1700	
REL 2700	
REL 2702	
REL 3709	
SPAN 1101	
SPAN 1102	

HUMANITIES

Art-Prehistoric to Middle Ages	
Art-Renaissance to Modern World	
America Sign Language I	
American Sign Language II	
Basic Chinese I	
Basic Chinese II	
Intermediate Chinese I	
Intermediate Chinese II	
World Literature	
Introduction to Art	
Digital Multimedia Arts	
Visual Thinking	
Creative Concepts in Arts and Crafts	
Basic French I	
Basic French II	
Intermediate French Grammar	
French Conversation	
Basic German I	
Basic German II	
Intermediate German I	
Intermediate German II	
Elementary Hebrew I	
Elementary Hebrew II	
Intermediate Hebrew I	
Intermediate Hebrew II	
Introduction to Women's Studies	
Critical Reading and Community	
Understanding Images	
Elementary Italian I	
Elementary Italian II	
Intermediate Italian I	
Intermediate Italian II	
Music Survey	
Music Fundamentals	
Music in the P-5 Classroom	
Music History I	
Music History II	
Music and World Culture	
Intro. to Music Therapy	
Introduction to Philosophy	
Introduction to Ethics	
Critical Thinking	
Basic Portuguese I	
Basic Portuguese II	
Intermediate Portuguese I	
Intermediate Portuguese II	
Introduction to Religions of the World	
Eastern Religions	
Western Religions	
Liberation Theology	
Basic Spanish I	
Basic Spanish II	

SPAN 2101	
SPAN 2102	
THE 1000	
THE 1010	
THE 1100	
GESS	
ANTH 1800	
ANTH 1900	
ANTH 2805	
ECO 1000	
ECO 1020	
ECO 1021	
GEOG 2010	
HIST 1000	
HIST 1062	
ID 2415	
PS 1010	
PS 2100	
PS 2300	
PS 2400	
PSY 1000	
PSY 1005	
SOC 1000	
SOC 1001	
SOC 2052	
SOC 2100	
SOC 2300	
SOC 2500	
GESM	
ASTR 1100	
BIO 1000	
BIO 1200	
BIO 2402	
CHEM 1010	
CHEM 1030	
CHEM 1083	
CHEM 1084	
CHEM 1200	
CPS 1031	
CPS 1032	
CPS 1231	
ENV 1100	
ES 1000	
GEOL 1200	
ID 1400	
MATH 1010	

Intermediate Spanish I	
Intermediate Spanish II	
Intro to Theatre	
Introduction to Theatre Criticism & Aesthetics	
Acting I	
SOCIAL SCIENCES	
Cultural Anthropology	
Introduction to Archeology	
Films of African World Experience	
Economics Issues	
Principles of Economics I	
Principles of Economics II	
World Geography	
History of Civil Society in America	
Worlds of History: Traditions and Encounters	
Group Communication	
Introduction to Politics	
American Government and Politics	
Introduction to Comparative Politics	
Introduction to International Relations	
General Psychology	
Honors General Psychology	
Introduction to Sociology	
Introduction to Sociology Honors	
Methods of Social Research	
Sociology of the Family	
American Racial and Ethnic Groups	
Introduction to Global Studies	

SCIENCE AND MATHEMATICS

Introduction to Astronomy	
Principles of Biology	
Biology and Society	
Human Physiology and Anatomy	
Preparatory Chemistry	
Essentials of Chemistry	
Chemistry I	
Chemistry II	
Chemistry in Your World	
Introduction to Computers	
Microcomputer Applications	
Fundamentals of Computer Science	
Foundations of Environmental Science	
Observing the Earth	
Introduction to Geology	
Computing in Modern Society	
Foundations of Mathematics	

MATH 1016	Statistics
MATH 1030	Problem Solving in Math
MATH 1054	Precalculus
METR 1300	Introduction to Meteorology
PHYS 1050	Energy, Physics, and the Environment
PHYS 2091	General Physics I
PHYS 2092	General Physics II
PHYS 2095	Physics I
PHYS 2096	Physics II

GEHPE HEALTH AND PHYSICAL EDUCATION

ID 1010	Leisure & Recreation in a Multicultural Society
ID 1225	Critical Issues and Values of Contemporary Health

All PED "Movement Forms" courses except PED 1500. All 1000 and 2000 level PED dance courses. (See below)

PED 1010	Beginning Basketball
PED 1011	Strength Fitness
PED 1020	Personal Fitness
PED 1021	Personal Fitness II
PED 1022	T'ai Chi Chih
PED 1023	Yoga
PED 1045	Beg. Gymnas: Men's Events
PED 1047	Beg. Gymnas: Women's Events
PED 1065	Beginning Soccer
PED 1070	Beginning Softball
PED 1080	Beginning Swimming
PED 1081	Intermediate Swimming
PED 1088	Beginning Tennis
PED 1095	Beginning Volleyball
PED 1101	Beginning Modern Dance I
PED 1102	Beginning Modern Dance II
PED 1103	Beginning Jazz Dance I
PED 1104	Beginning Jazz Dance II
PED 1105	Beginning Ballet I
PED 1107	Creative Movement
PED 1108	Pilates I
PED 1109	Zumba Fitness
PED 1110	Ballroom Dancing
PED 1130	Ballroom Dancing
PED 1151	Folk and Square Dance
PED 1920	Designing Games
PED 2048	Inter Gymnastic (Mixed Events)
PED 2065	Intermediate Soccer
PED 2084	Swimming Fitness
PED 2088	Intermediate Tennis
PED 2095	Intermediate Volleyball
PED 2101	Intermediate Jazz Dance

MATHEMATICS COURSES

ELEMENTARY MATHEMATICS

MATH 0901 Basic Algebra (3*) *Note: Credits do not count towards graduation

Topics include: Operations with Real Numbers, Simplifying Algebraic Expressions, Linear Equations, Graphing Equations of Lines, Applications and Word Problems, Operations with Polynomials, Factoring Polynomials, Solving Quadratic Equations, Operations with Square Roots. (E)

Prerequisites: By Placement Test Results General Education Support Course

MATH 0902 Basic Algebra (1*) *Note: Credit does not count towards graduation

Topics include: Operations with Real Numbers, Simplifying Algebraic Expressions, Linear Equations, Graphing Equations of Lines, Applications and Word Problems, Operations with Polynomials, Factoring Polynomials, Solving Quadratic Equations, Operations with Square Roots. (E)

Condensed version of MATH 0901.

Prerequisite: Eligibility determined by placement test results

Corequisite: Designated (paired) sections of MATH 1010, 1016, 1030

General Education Support Course

MATH 1000 Algebra for College Students (3)
Rational Expressions, Radical and Exponential Expressions. Quadratic, rational and radical equations and inequalities Systems of Equations. Properties of Functions and their Graphs, polynomial functions, inverse functions. Conic sections. Binomial Theorem. (E)
Prerequisite: MATH 0901 or Placement Test Results General Education Foundation Course

MATH 1010 Foundations of Mathematics (3)
An introduction to mathematical reasoning including problem-solving strategies sets and set operations, logic, geometry, and statistics. Mathematics majors cannot receive credit for this course. (E)
Prerequisite: MATH 0901 or MATH 0902 or Placement Test Results
Approved General Education Course

MATH 1016 Statistics (3)
Descriptive and inferential statistics: graphic treatment of data, characteristics of distributions, statistical models, correlation, regression, estimation and hypothesis testing. Computer applications. (E)
Prerequisite: MATH 0901 or MATH 0902 or Placement Test Results
Approved General Education Course

MATH 1030 Problem Solving in Mathematics (3)

Development and application of problem solving strategies to a variety of problems within and outside of mathematics making connections between mathematics and other content areas. Numerous and varied experiences with problem solving as a method of inquiry and applications. (E)

Prerequisite: MATH 0901 or MATH 0902 or Placement Test Results Approved General Education Course

MATH 1044 Precalculus for Business (3)
Equations, inequalities, and their applications. Functions and graphs, lines, parabolas and systems of equations, exponential and logarithmic functions, compound interest, present value, annuities and amortization of loans. Matrix algebra, Gauss-Jordan elimination and applications. Inverse of a matrix, solutions of systems of equations and inequalities. Problem solving methods. Students will be required to acquire a specified graphing calculator. Cannot be used as a prerequisite for MATH 2415 (Calculus I)
Prerequisites: Math 1000 or equivalent
Approved General Education Course

MATH 1054 Precalculus (3)
Polynomial, Rational, Exponential and Logarithmic functions. Trigonometric functions with emphasis on trigonometric identities and trigonometric analysis. Problem solving methods. Students will be required to acquire a specified graphing calculator.
Prerequisites: MATH 1000, or the equivalent, or a qualifying score on the placement examination.
Approved General Education Course

Philosophy and Religion

Kean University no longer offers a BA in Philosophy and Religion for newly admitted students beginning in the Fall 2010. However, all students may take courses or minor in Philosophy and Religion.

MINOR IN PHILOSOPHY AND RELIGION

REQUIRED COURSES 9

PHIL 1100 Philosophy 3

REL 1700 Introduction to Religions of the World 3

PHIL 4600 Senior Philosophy Seminar 3

ELECTIVES 9

Selected with advisement. At least one course must be at 3000 level or above.

TOTAL 18

PHILOSOPHY COURSES

INTRODUCTORY

PHIL 1100 Introduction to Philosophy (3)
Survey of major issues in philosophical thought and their implications for science, ethics, religion and politics. (E)
General Education Distribution Course

PHIL 1101 Honors Course in Philosophy (3)

A general introduction to the ideas of the great philosophers, major schools of thought and basic issues dealing with knowledge, values and experience. Classical philosophical writings are examined to show their philosophical and historical influence. This course may be substituted for PHIL 1100.

Prerequisite: Top 25% entering students on SAT verbal scores, or 3.0 cumulative average. Credit not given for both PHIL 1100 and 1101.

HISTORY OF PHILOSOPHY

PHIL 2200 Ancient Philosophy (3)
Classical philosophical views on human nature, morality, education, art and politics. Emphasis on the philosophies of Plato and Aristotle.
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 2203 Philosophies of Asia (3)
Introduces students to philosophies of Asia through the study of philosophical and religious texts and key concepts. Provides understanding of influence of geographical, historical, and cultural particularities of Asia as alternatives to Western perspectives.

PHIL 3200 Modern Philosophy: The Age of Genius (3)
Survey of the beginnings of modern philosophical thought concerning human freedom, the nature of reality, the foundations of knowledge and the conflict between reason and emotion. Emphasis on the philosophies of Descartes, Spinoza, Hobbes and Leibnitz.
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3205 Making of the Modern Mind: A Critical Exposition of Hume and Kant (3)
Study of the role of reason and experience in the philosophies of Hume and Kant and the impact of these philosophers on modern thought.
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3208 Hegel, Marx and Nietzsche: 19th Century German Philosophy (3)
A study of some of the great metaphysical systems produced by nineteenth century German philosophy. Among the philosophers to be considered will be Hegel, Marx, Nietzsche, Fichte and Schopenhauer.
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3209 Latin American Philosophy (3)
A study of the historical background and present trends in Latin American philosophy.
Prerequisite: PHIL 1100 or permission of instructor.

PHIL 4200 Contemporary Philosophy: The Analytic School (3)
Fundamental themes and methods of twentieth century British and American analytical philosophy. Among philosophers covered are Moore, Russell, Wittgenstein and Ayer.
Prerequisite: Three hours in philosophy or permission of instructor.

VALUE THEORY

PHIL 2300 Introduction to Ethics (3)
Introduction to philosophical methods for developing a personal moral code and dealing with moral conflicts. Emphasis on issues concerned with sex and gender, racial discrimination, family obligations, free speech and human rights. (E3)
General Education Distribution Course

PHIL 2301 Feminist Philosophies (3)
An introduction to feminist philosophies, from an historical and thematic approach.

PHIL 2302 Philosophy of Peace (3)
Philosophical analysis of ideological conflicts, causes of war, world community, the morality of war, alternatives to violence, the concept of justice.
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 2303 Sounds and Sensibilities: Values and Meanings in American Popular Music (3)
Exploration and analysis of the diverse aesthetic sensibilities associated with American popular music from blues and jazz to rock and soul. Focus on values and meanings expressed in the work of representative artists from Bessie Smith to Madonna.
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3300 Social and Political Philosophy (3)
The nature of the good society, the justification and criticism of social institutions as well as proposals for their reconstruction; a critique of the basic moral assumptions underlying various political doctrines and an analysis of concepts like law, natural law, rights, political obligation, equality, liberty and the common good. (SP)
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3304 The Symbolism of Evil (3)
A dialogue on the nature of evil: its manifestations in defilement, sin and guilt; its expression in symbol, myth and religion. (SP)
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3305 Aesthetics (3)
A critical analysis of the meaning of aesthetic terms, the aesthetic experience, the structure of the aesthetic object, the nature of creative activity, and the nature of aesthetic judgment and its possibility of verification. (SE)
Prerequisites: Three hours in philosophy or permission of instructor, and junior standing.

PHIL 3307 The Philosophy of Law (3)
A critical discussion of the most prominent theories of the sources, nature, and function of the law, as well as a study of basic problems such as the logic of legal argumentation and the relation between law and morality. (E)

PHIL 3308 Values in Conflict (3)
An introduction to the basic theories of values and ethics, with practical application to problems which the student may face in personal and professional life.

PHIL 3309 Theories of Punishment (3)
A description and critical appraisal of various philosophical and legal justifications for punishment. Special emphasis on philosophical pictures of human nature relative to punishment. (E)

PHIL 3310 Business Ethics (3)
An applied ethics course that examines the role of moral principles in contemporary business practices. Theory and cases are used to provide the tools for ethical decision-making through the examination of actual dilemmas faced by managers in organizations. (E)

PHIL 3311 Values and Society (3)
Practical and theoretical introduction to problems in ethics and social philosophy. Emphasis on developing philosophical techniques for making decisions about actions, social issues and life styles.
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3312 Contemporary Ethical Theory(3)
Analysis of significant problems in ethical theory: the nature of the good; the moral ought; naturalistic fallacy; metaethics and the meaning of ethical terms.
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3313 Justice and Human Rights (3)
Philosophical theories of social justice and their application to contemporary problems in human rights. Emphasis on issues related to equality, discrimination and reverse discrimination, economic justice and the right to violence. (E)
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3314 Moral Problems in Medicine and Health Care (3)

Introduction to philosophical theories dealing with moral problems in medicine and health care. Emphasis is given to problems concerning patients' rights, justice in health care distribution and experimenting on human subjects. (E)
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3800 Environmental Philosophy

Critical examination of crucial environmental issues such as animal and plant rights, preservation of the ecosystem, pollution, and toxic waste disposal from historical and modern philosophical perspectives.

METAPHYSICS, PHILOSOPHY OF THE PERSON, THEORY OF ACTION

PHIL 2400 Philosophy of the Person (3)

A study of some of the modern and classical philosophical approaches to human nature; perception and intellection, free will and determinism, soul and mechanism; mind and body. An investigation into some of the philosophical foundations of modern theories of psychology. (SE)
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3402 Existentialism (3)

The nature and modes of human consciousness, the meaning of embodied existence and being-in-the-world, the problem of freedom and value. Selected readings from the philosophies of Nietzsche, Kierkegaard, Husserl, Jaspers, Heidegger, Sartre, Camus and Merleau-Ponty. (SSI)
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3404 Philosophy of Mind (3)

A conceptual study attempting to analyze the following topics: the mind, its relation to the body, the problems of motivation, intention, freedom, action, the self, the unconscious, emotion, memory and imagination. (SO)
Prerequisite: Three hours in philosophy or permission of instructor.

PHIL 3406 Contemporary Schools of Philosophy (3)

Major philosophic clashes of our time: the uses of language; the sources, limits, and test of knowledge; and the nature of the universe, man, morality, and the good society. Modern and traditional approaches including idealism, existentialism, neoscholasticism, pragmatism, logical empiricism and realism. (FE)

THEORY OF KNOWLEDGE AND LOGIC

PHIL 2505 Critical Thinking (3)

Evaluation of arguments in many areas: advertising, everyday life, ethics, multicultural encounters, politics, religion, and the applied and social sciences. Emphasis on constructing effective arguments. (SP)
General Education Distribution Course

PHIL 3503 Theory of Knowledge (3)

Analysis of the concepts of knowledge, belief, truth, falsity, error, meaning and ideas.
Prerequisite: Three hours in philosophy or permission of instructor.

SEMINARS AND INDEPENDENT STUDY

PHIL 4600 Senior Philosophy Seminar (3)

Intensive research and writing on selected topics integrating knowledge of philosophical theories and issues with skills in presenting philosophical reasoning and analysis. (Formerly entitled: Seminar in Great Philosophers.)

Prerequisite: Senior status or permission of instructor. General Education Capstone Course. Writing Emphasis Course

PHIL 4605 Seminar in Major Philosophical Problems (3)

The study in-depth of one major philosophical issue. The problems to be studied vary.

Prerequisite: Nine hours in philosophy or 6 semester hours with permission of instructor.

PHIL 4610 Independent Study in Philosophy (3)

Independent research projects under the guidance of members of the department. Meeting hours and times are arranged by the student and instructor.

Prerequisite: Nine hours in philosophy or six hours with permission of instructor.

RELIGION COURSES

REL 1700 Introduction to Religions of the World (3)

Survey of Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity and Islam, emphasizing the origin, tenets, developments and cultural and social influence. (E)
General Education Distribution Course

REL 2700 Eastern Religions (3)

The history and thought of Hinduism, Buddhism, Jainism, Sikhism, Taoism, Confucianism and Shinto; their role in the culture of India, China, Japan and South East Asia; their impact on the west. (E)

REL 2702 Western Religions: Judaism, Christianity, Islam (3)

The history and impact of three major Western religions; their differences and similarities, and their role in the formation of contemporary religious thought. (E)

General Education Distribution Course

REL 3700 Philosophy of Religion (3)

The philosophical basis of the major Western religions. Attention is given to traditional proofs of God's existence, the problem of evil, the relation between science and religion, and religion's responses to the challenges of atheism and secularism. (FO)
Prerequisite: Three hours in philosophy or religion or permission of instructor. Writing Emphasis Course

REL 3701 New Religions in America (3)

Background, survey and analysis of Oriental mysticism in America; Zen, Yoga, Meher Baba, Transcendental Meditation, Krishnamurti, Tibetan Buddhism, International Society for Krishna Consciousness and other contemporary movements.

Prerequisite: Three hours in philosophy or religion or permission of instructor.

REL 3702 Foundations of Mystical Experience (3)

Critical analysis of the truth-claims underlying mystical experience.

Prerequisite: Three hours in philosophy or permission of instructor.

REL 3703 Origin and Impact of the African-American Church (3)

Study of the founding of the churches among African Americans, and the role that the churches have played in educational leadership, social and cultural advancements, economic, moral and spiritual empowerment.

REL 3704 Types of Religious Philosophy (3)

Study of two or three classical Western philosophers of religion selected from the following: Aquinas (classical theism), Eckhart (mysticism), Spinoza (pantheism), Hume (skepticism), Kant (moral theism), Hegel (absolute idealism), Kierkegaard (existentialism).

Prerequisite: Three hours in philosophy or permission of instructor.

REL 3705 Major Ideas in Jewish Religion (3)

The major ideas of Jewish religious thought beginning with the Old Testament and the Talmud. Jewish philosophers from Philo of Alexandria and Saadya Goan; some of the great Jewish philosophers of the Middle Ages.

Prerequisite: Three hours in philosophy or religion or permission of instructor.

REL 3706 Major Trends in Jewish Philosophy in the 19th and 20th Centuries (3)

An analysis of the problems and issues in Jewish thought in the past century and a half, set against the background of general philosophy and within the scope of changes in Jewish life during the same period.

Prerequisite: Three hours in philosophy or religion or permission of instructor.

REL 3708 Black Theology and Black Liberation Movements (3)

Examination of significant personalities, movements and organizations that have been involved in the ideological articulation of Black protests and liberation movements in America. Special emphasis on developments such as the Black Theology movement and the leadership of Malcolm X and Martin Luther King.

REL 3709 Liberation Theology (3)

A critical and expository survey of liberation theology, from its beginnings in Latin American and African American communities to its present adoption by other groups, including an analysis of common themes and problems.

Prerequisite: REL 1700 or permission of instructor.

General Education Distribution Course

REL 3709 SL Liberation Theology: Service Learning

Students will enhance their understanding of the dimensions of liberation theology by becoming involved in the development of service programs run by faith-based organizations. Field experience will be integrated into the course through journals, reports, and group activities.

Co-requisite: REL 3709

REL 4000 Religion In Contemporary Life (3)

An in-depth look at the pervasive influence of religion and the way in which policies are affected by its response to a broad range of issues within social institutions including the family, the economy, schools, government, and faith organizations.

REL 4615 Independent Study in Religion (3)

Independent research projects under the guidance of members of the department. Meeting hours and times are arranged by the student and instructor.

Prerequisites: Nine hours in philosophy/religion or 6 hours with permission of instructor.

REL 4800 Honors Course in Critical Issues in Modern Religion (3)

A study of selected significant issues in modern religious thought-natural science and religion; biology and religion; social theory and religion; history and religion. Arrangements have been made to utilize the resources of lecturers from the natural, biological and social sciences.

Prerequisites: "B" average, Junior or Senior level, and permission of Instructor.

INTERDISCIPLINARY COURSES

The following are found in the Interdisciplinary courses section (See Index.)

ID 3010 Philosophy in Literature (3)

ID 3300 Approaches to the Holocaust (3)

ID 3315 Ethics and Public Policy (3)

School of Psychology

Dr. Verneda Hamm-Baugh, Acting Executive Director

EC 234 (908) 737-5870

The major in Psychology is intended to acquaint students with the scientific field of knowledge of human and animal behavior and the research methods by which such knowledge is acquired. The student develops research and measurement skills, knowledge of ethics, interpersonal skills and communication skills in addition to an understanding of the developmental and other processes that explain human behavior. The person who majors in psychology is generally prepared for a wide variety of roles, including mental health technician, research assistant, parent, teacher, human services provider, personnel administrator, statistical assistant and graduate student in psychology or other professional areas.

Additional information is available on the School of Psychology website, please see <http://www.kean.edu/~psych/>

For more information about College of HSS programs, please see: <http://www.kean.edu/academics/college-humanities-and-social-sciences>

B.A. PSYCHOLOGY

GENERAL EDUCATION 43-45

FOUNDATION REQUIREMENTS¹: 13

GE 1000 Transition to Kean² 1

OR

GE 3000 Transfer Transitions² 1

ENG 1030 College Composition³ 3

MATH 1000; 1010; 1016; 1030; 1054 3

COMM 1402 Speech Communication for Critical Citizenship 3

GE 2023 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

ENG 2403 World Literature 3

Select two from different areas:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary ID 1300, ID 3230 3

Social Sciences 9

HIST 1062 Worlds of History 3

PSY 1000 General Psychology^{3, 4 **} 3

Select one course from areas below:

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary ID 2415 3

Science & Mathematics 10-11

Math or Computer Science 3

MATH 1010; 1016; 1030; 1054

OR CPS 1031; 1032; 1231

Select two courses from areas below; one must be a lab science

Biology 3,4

Chemistry or Physics 3,4

Astronomy, Earth Science, Geology or Meteorology 3, 4

Interdisciplinary ID 1400 3

Health/Physical Education 2-3

ID 1225 Issues in Contemporary Health 3

OR

ID 1010 Leisure and Recreation 3

OR

Physical Education 2

Physical Education 2

ADDITIONAL REQUIRED COURSES⁵ 6-8

(Two courses selected from the College of Humanities and Social Sciences.)

MAJOR REQUIREMENTS⁶ 31

REQUIRED COURSES 13

PSY 2000 Professional Psychology 3

PSY 3200 Psychological Statistics 3

PSY 4200 Tests and Measurements^{7, 9, *, **} 3

PSY 4230 Experimental Psychology^{7, 9, *, **} 4

MAJOR ELECTIVES 15

(Five psychology courses selected from at least three areas with departmental advisement.)

DEVELOPMENTAL PSYCHOLOGY

PSY 2100 Child Psychology

PSY 2110 Psychology of Adolescence

PSY 3110 Life-Span Developmental Psychology

PSY 3120 Adult Psychology*

PSY 3130 Psychology of Aging*

PSY 4960 Special Topics in Psychology

PSY 4970 Independent Study⁸

THEORETICAL FOUNDATIONS

PSY 3310 Psychology of Learning

PSY 3320 Theories of Personality

PSY 3360 Theories of Motivation

PSY 3540 Abnormal Psychology

PSY 4310 History and Systems of Psychology

PSY 4350 Evolutionary Psychology

PSY 4960 Special Topics in Psychology

PSY 4970 Independent Study⁸

APPLIED AREAS

PSY 3300 Research Design and Analysis

PSY 3400 Organizational Behavior

PSY 3410 Educational Psychology

PSY 3420 Environmental Psychology

PSY 3660 Community Psychology

PSY 4400 Principles of Behavioral Analysis

PSY 4420 Industrial/ Organizational Psychology

PSY 4430 Forensic Psychology

PSY 4450 Psychotherapy and Counseling Techniques

PSY 4950 Field Experience in Psychology

PSY 4960 Special Topics in Psychology

PSY 4970 Independent Study⁸

SOCIAL AND INTERPERSONAL APPROACHES

PSY 2630 Psychology of Prejudice and Racism

PSY 2640 Marriage and Family Relationships

PSY 3000 Cross-Cultural Psychology

PSY 3340 Psychology of Women

PSY 3630 Social Psychology

PSY 3650 Understanding Self and Others

PSY 3680 Positive Psychology

PSY 4960 Special Topics in Psychology

PSY 4970 Independent Study⁸

PSRT 1101 Psychiatric Rehabilitation

MIND/BRAIN

PSY 3330 Psychology of Consciousness

PSY 3370 Psychology of Attention

PSY 3380 Psychology of the Arts

PSY 4360 Physiological Psychology

PSY 4380 Psychology of Perception

PSY 4390 Cognitive Processes

PSY 4440 Functional Neuropsychology

PSY 4960 Special Topics in Psychology

PSY 4970 Independent Study⁸

****Note:** PSY 4960 Special Topics in psychology/PSY 4970 Independent Study can be taken in any content area as determined by instructor. It may be taken more than once as a major elective

MAJOR GE/CAPSTONE COURSE 3

PSY 4940 Seminar: Issues in Contemporary Psychology^{9**3}

FREE ELECTIVES: 42-50

Selected with advisement. At least 50% must be at 3000 level or above.

No more than 3 additional courses in Psychology

TOTAL 124

¹ See prerequisites and equivalencies.

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

³ Requires a grade of C or better.

⁴ PSY 1000 is a prerequisite for all psychology courses.

⁵ Not required of students with a second major, minor or collateral.

⁶ All major courses including Capstone require a grade of C or better

⁷ PSY 3200 is a prerequisite.

⁸ Requires a contract

⁹ In order to take PSY 4200, 4230, 4940, must have overall GPA of 2.5

* Requires a prerequisite besides PSY 1000 and the specific prerequisite(s) are detailed in the course description.

** May be taken as honors courses. See PSY 4205, 4235, 4945

GPA of 2.5 required to declare the psychology major

MINOR IN PSYCHOLOGY

A variety of specializations may be taken with the minor in psychology. Some examples are: developmental, for those who wish to gain a perspective on human behavior over the life span; business-related, for those who plan to work in business or industry; education-related, for those who plan to teach; experimental, for those who wish to develop research skills; professional, for those who plan to enter a graduate program in psychology. Particulars of these or other individualized approaches should be discussed with the departmental advisor to minors.

The minor in Psychology must include General Psychology (PSY 1000) plus one course in at least three elective areas listed above, plus three additional courses chosen from any of the areas (including required courses) - for a total of 21-22 credits.

Note that General Psychology is a prerequisite to all the other courses. This means it must be completed before any of the other courses are taken. In addition, some courses have an additional prerequisite or prerequisites beyond General Psychology; these are indicated with an asterisk (*), and the specific prerequisite(s) are detailed in the course description. At least three (3) of the courses in psychology must be taken at Kean University. All courses for the minor must be completed with a final course grade of C or better.

B.S. DEGREE PSYCHOLOGY AND PSYCHIATRIC REHABILITATION

Coordinator: Dr. Sharon Boyd-Jackson

EC 226E, (908) 737-5877

This program is designed for students interested in obtaining a dual major in Psychology and Psychiatric Rehabilitation. This is a joint program that Kean University has established with Rutgers University, School of Health Related Professions. Students will take courses for the Psychology and General Education components of this major at Kean University. However, the Rutgers University faculty will teach the Psychiatric Rehabilitation classes at their Scotch Plains campus. Please Note: Kean University will be responsible for registration for all classes for this major option, however, all tuition and fees for the Psychiatric Rehabilitation courses will be charged according to Rutgers's tuition and fee rates for all students.

The completion of this major will give students three career options in the area of Psychology that would allow for either gaining experience for work in the field or entrance into graduate school. More specifically, the three options include:

- **Working in the field with a BS degree** - the practical skills gained with this major give students experience in the area of Psychiatric Rehabilitation and prepares them for employment in this area
- **Graduate school in Psych Rehab** - The completion of this program will give students a focused option for a career in Psychiatric Rehabilitation. Students who choose to obtain graduate education in this area may apply for admission to Rutgers's Master of Science Degree and Doctoral Degree Programs in Psychiatric Rehabilitation
- **Graduate school in any area of Psychology** - The dual major provides students with essential undergraduate courses needed in Psychology and valuable practical experience in a specialized area that will enhance an application for graduate education in any area of psychology.

Students interested in becoming an intended major should take the introductory course (PSRT-1101) then speak to the program coordinator for information about the application process. All PRST courses will be taught at the Rutgers/Scotch Plains campus.

Students who choose this major automatically become "intended majors" and should get advisement from Dr. Boyd-Jackson. However, to become a declared major you must complete the application process. In addition, students must meet the following requirements before applying to the program: 1) G.P.A. of 3.0 in Psychology; 2) Overall G.P.A. of 2.5; 3) Taken at least 9 credits of Psychology or Psychiatric Rehabilitation courses; 4) Have at least 40 credits of classes overall. For an application and additional requirements please see the school of psychology secretary, or the program coordinator or download it from the website. Applications will be accepted March 1st for the Fall semester and November 1st for the Spring semester.

Transfer students may apply to the university and this program simultaneously as long as they meet deadline dates. However, all students must be admitted to Kean before any application to the dual major program will be considered for admission. Transfer students with an Associate Degree in Psychosocial Rehabilitation also need to apply before related credits will be accepted for the dual major.

ALL APPLICATIONS MUST BE SENT TO THE PROGRAM COORDINATOR IN THE SCHOOL OF PSYCHOLOGY.

Note: This program does not accept Second Bachelor Degree candidates.

GENERAL EDUCATION 32

FOUNDATION REQUIREMENTS¹ 13

GE	1000	Transition to Kean ²	1
OR			
GE	3000	Transfer Transitions ²	1
ENG	1030	College Composition ³	3
MATH	1000; 1010; 1016; 1054		3
COMM	1402	Speech Communication for Critical Citizenship	3
GE	2023	Research & Technology	3

DISCIPLINARY/INTERDISCIPLINARY/ DISTRIBUTION REQUIREMENTS:

Humanities			6
ENG	2403	World Literature*	3
Select one course:			
Fine Arts or Art History			3
Philosophy or Religion			3
Foreign Languages			3
Music or Theatre			3
Interdisciplinary ID	1300, ID 3230		3
Social Sciences			6
HIST	1062	Worlds of History*	3
PSY	1000	General Psychology ^{3, 4 **}	3
Science & Mathematics			7
Math or Computer Science			3
Lab Science			4

PSYCHOLOGY MAJOR REQUIREMENTS^{5&7} 25

PSYCHOLOGY REQUIRED COURSES 13

PSY	2000	Professional Psychology	3
PSY	3200	Psychological Statistics	3
PSY	4200	Tests and Measurements ^{6**}	3
PSY	4230	Experimental Psychology ^{6**}	4

PSYCHOLOGY ELECTIVES 9

Three psychology courses selected with departmental advisement.

MAJOR GE/CAPSTONE COURSE 3

PSY	4940	Seminar: Issues in Contemporary Psychology ^{5**}	3
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PSYCH REHAB REQUIREMENTS⁷ 45***,

REQUIRED COURSES 33***

PSRT	1101	Intro to Psychosocial Rehab	3
PSRT	1102	Comm Tech. For Interv & Rehab	3
PSRT	1103	Introduction to Group Dynamics	3
PSRT	1204	Clinical Principles in Rehab	3
PSRT	2121	Comm Resource and Sys Mgmt	3
PSRT	2231	Emerging Trends and Topics	3
PSRT	4121	Case Management Approaches	3
PSRT	4111	Pract in Psychiatric Rehab I	6
PSRT	4112	Pract in Psychiatric Rehab II	6

PSYCHIATRIC REHAB ELECTIVES 12***

Four courses selected from below or others with advisement.

PSRT	4209	Vocational Rehab Approaches ³	3
PSRT	4231	Independent Living Rehab	3
PSRT	4251	Substance Abuse and Mental Ill	3
PSRT	4261	Developmental Disabilities	3
PSRT	4271	The Role of Families in Rehab	3
PSRT	4015	Wellness and Recovery	3
PSRT	4280	Research Methods in Rehab	3

FREE ELECTIVES**22*****

May include 2 PSRT gradcourses.

TOTAL**124**¹ See prerequisites and equivalencies.

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

³ Requires a grade of C or better.⁴ PSY 1000 is a prerequisite for all psychology courses.⁵ All major courses including Capstone require a grade of C or better. Exception: a grade of "B" is required for PSRT 1101.⁶ PSY 3200 is a prerequisite.⁷ An average GPA of at least a "B" must be maintained in major courses and an average GPA of at least a 2.5 must be maintained overall for all Psychology/Psych Rehab Majors in order to remain in good standing⁹ In order to take PSY 4200, 4230, 4940, must have overall GPA of 2.5

*Required Distribution Course.

**May be taken as honors courses. See PSY 1005, 4205, 4235, 4945

***Subject to Change by Department

GPA of 2.5 required to declare the psychology major

#Descriptions for all PSRT courses should be obtained from the program coordinator

PSYCHOLOGY COURSES**GENERAL****PSY 1000 General Psychology (3)**

Introduction to the scientific study of behavior: biological bases of development and behavior; learning, motivation, perception, cognition, personality, abnormal behavior, measurement of behavior, and social behavior. Foundation for those interested in the behavioral sciences of human service occupations. (E, SSI)

Disciplinary/Interdisciplinary
Distribution Requirement in Social Sciences

PSY 1005 Honors General Psychology (3)

Introduction to the scientific study of behavior: biological bases of development and behavior; learning, motivation, perception, cognition, personality, abnormal behavior, measurement of behavior, and social behavior. Foundation for those interested in the behavioral sciences of human service occupations. (FO)

Prerequisite: Permission of Instructor

Disciplinary/Interdisciplinary.

Distribution Requirement in Social Sciences.

Can be substituted for PSY 1000. Credit may not be received for both PSY1000 and PSY1005.

REQUIRED: FOUNDATION CORE**PSY 2000 Professional Psychology: Principles and Practices (3)**

This course is intended to establish basic skills necessary for planning and pursuing a career in psychology. Students will be introduced to different methods of conducting psychological research and exposed to the diverse areas of study in psychology and career preparation. Students will become familiar with the history of measurements and the professional ethical code of conduct. (E, WS, SSI)

Prerequisite: PSY 1000

PSY 3200 Psychological Statistics (3)

Introduction to both descriptive and inferential statistics, including measures of central tendency, variability, hypothesis testing, probability, correlation, regression, t-tests, analysis of variance and chi square and the use of computer-based statistical software package. (E, SSI, SSII)

Prerequisite: PSY 1000.

PSY 4200 Psychological Tests and Measurements (3)

An introduction to psychological tests and practices as used in educational, employment and counseling settings. Includes discussion of classical measurement concepts and selected measures of intelligence, aptitude, achievement, interest and personality. (E, SSI, SSII)

Prerequisite: PSY 1000, PSY 3200.

PSY 4205 Honors Psychological Tests and Measurements (3)

An introduction to psychological tests and practices as used in educational, employment and counseling settings. Discussion of classical measurement concepts and selected measures of intelligence, aptitude, achievement, interest and personality. Completion of a major project applying classical measurement theory. Can be substituted for PSY 4200.

Credit may not be received for both PSY 4200 and PSY 4205. (FA)

Prerequisite: PSY 1000, PSY 3200, 3.5 GPA and permission of instructor.

PSY 4230 Experimental Psychology (4)

Systematic methods used in conducting and evaluating psychological research, primarily experimental. Topics include identifying and defining research problems, classifying variables, experimental design and analysis, collecting and evaluating data, use of computers as an experimental tool, and writing research reports (includes laboratory sessions).

Credit may not be received for both PSY 4230 and PSY 4235. (E, SSI, SSII)

Prerequisite: PSY 1000, PSY 3200.

PSY 4235 Honors Experimental Psychology (4)

Systematic methods used in conducting and evaluating psychological research, primarily experimental. Topics include identifying and defining research problems, classifying variables, experimental design and analysis, collecting and evaluating data, use of computers as an experimental tool, and writing research reports (includes laboratory sessions).

Credit may not be received for both PSY 4230 and PSY 4235. (FA)

Prerequisite: PSY 1000, PSY 3200; 3.5 GPA in Psychology; and permission of instructor.

DEVELOPMENTAL**PSY 2100 Child Psychology (3)**

Examination of development from conception to adolescence. Emphasis on the developmental effects of maturation and experience and the interactional nature of physical, cognitive, emotional, social, and cultural development on the psychological development of the child. (E, WS, SSI)

Prerequisite: PSY 1000.

PSY 2110 Psychology of Adolescence (3)

Developmental processes in adolescence, emphasizing the interaction between physiological, social, emotional, and cognitive domains of development. Topics include influence of family and peer group, identity, achievement, vocational development, sexuality, and adjustment. (E, WS, SSI, SSII)

Prerequisite: PSY 1000.

PSY 3110 Life-Span Developmental Psychology (3)

Examination of the psychological development of the individual across the life-span. The influence of biological, sociological, and historical changes on psychological development is discussed. Developmental concepts and theories are reviewed and applied in the study of the various ages. (E, WS, SSI)

Prerequisite: PSY 1000.

PSY 3120 Adult Psychology (3)

Human development from young adulthood into later maturity: application of the developmental approach as a systematic framework for viewing the adult years and the aging process; interaction of psychological, social, and physiological aspects of development. (SO)

Prerequisite: PSY 1000, PSY 2100 or 2110.

PSY 3130 Psychology of Aging (3)

Developmental processes in later life: the effects of aging on various aspects of behavior, including motivation, memory, learning, motor performance, intellectual ability, problem solving, personality, social adjustment and psychopathology. (FO)

Prerequisites: PSY 1000, PSY 2100 or 2110.

THEORETICAL FOUNDATIONS**PSY 3310 Psychology of Learning (3)**

Behavioral, sociocultural, cognitive, and neurophysiological theories of learning. Learning research, processes, principles, and applications in education, child rearing, clinical psychology, and self-regulation. (E, WS, SSI)

Prerequisite: PSY 1000.

PSY 3320 Theories of Personality (3)

Various systematized conceptualizations of personality including psychoanalytic, behavioral, cognitive, humanistic, and phenomenological. Current areas of research including cognitive and biological factors. Relationships to clinical applications. (E, WS, SSI, SSII)

Prerequisite: PSY 1000.

PSY 3360 Theories of Motivation (3)

Motivation studied through systematic theory and current research. Topics include physiological and regulatory system, ethology, drives, arousal, hedonism, reinforcement, need-systems and motivation as related to personality theory. (SO)

Prerequisite: PSY 1000.

PSY 3540 Abnormal Psychology (3)
The study of psychopathology from bio-psychosocial perspectives, emphasizing understanding, diagnosis, treatment, and prevention. (E, SSI, SSI)
Prerequisite: PSY 1000.

PSY 4310 History and Systems of Psychology (3)
History of psychology from its origins to its modern systematic conceptualizations. The influence of early systems, theories and schools on contemporary psychology. (FO)
Prerequisite: PSY 1000.

PSY 4350 Evolutionary Psychology (3)
Evolutionary psychology and theories on the origins of human nature. Perspectives on human behavior and contemporary traits, as originating in the ancestral environment. The controversies and issues of domain-specific modules of brain/mind and psychological mechanisms. Parenting, kinship, mating strategies, issues of human group living and culture are explored. The approaches of evolutionary psychology, human behavioral ecology, memetic evolution, sociality, and multi-level selection are utilized. (SP)
Prerequisite: PSY 1000.

APPLIED AREAS

PSY 3300 Research Design and Analysis (3)
An introduction to research design emphasizing quasi-experimental and correlational strategies. Students will carry out research studies, analyze their data via computer, and interpret their results. Analyses will include factorial ANOVA, correlation and regression. (SO)
Prerequisite: PSY 1000, PSY 3200.

PSY 3400 Organizational Behavior (3)
Psychological perspectives on aspects within work organizations. Representative aspects include basic processes and problems; motivation, personnel policies, authority issues and control, organizational information processing, productivity, job redesign, organization development and workers' participation. (SO)
Prerequisite: PSY 1000.

PSY 3410 Educational Psychology (3)
Educational Psychology relates the concepts of psychology to the processes of learning, development, assessment, and effective classroom practice in P-12 settings. Attention will be directed toward the study of cognitive, emotional, and social development, theories of motivation and learning, teaching strategies, individual and group differences of students, as well as the role of educator in classroom management, curriculum decisions, and traditional and non-traditional forms of student assessment. A range of theories, models, and concepts relevant to planning and reflecting upon educational practice and improvement are covered in this course. (E)
Prerequisite: PSY 1000.

PSY 3420 Environmental Psychology (3)
Principles of psychology applied to experienced physical settings and their effects upon various aspects of human behavior. Selected topics include the built environment, psycho-environmental issues, environmental stresses, crowding, perceptual and motivational aspects of work, play and therapeutic environments. (FO)
Prerequisite: PSY 1000.

PSY 3660 Community Psychology (3)
Emphasis on the transactions between people and social systems. Methods of intervention in and evaluation of the ways persons and various levels of environment fit together. Origins and developments of community psychology examined. Applications for psychologists and other community service providers considered. (E)
Prerequisite: PSY 1000.

PSY 4400 Principles of Behavioral Analysis (3)
Predicting and modifying human behavior. The terms, concepts, methodologies, theoretical and ethical issues, and research findings of the scientific analysis of behavior based on classical and operant conditioning. (FE)
Prerequisite: PSY 1000, PSY 3310

PSY 4420 Industrial/Organizational Psychology (3)
Principles of psychology applied to industrial problems and organization. Selected topics in personnel selection and training, human factors engineering, worker morale, consumer and organizational psychology. (FA)
Prerequisites: PSY 1000 and a course in statistics.

PSY 4430 Forensic Psychology (3)
The course provides an introduction to the field of forensic psychology through an examination of the relationship between psychology and the legal system. The course will address the nature of forensic psychology, ethical issues, criminal causality, offender responsibility, and discrimination issues. (E, VWS)
Prerequisite: PSY 1000.

PSY 4450 Psychotherapy and Counseling Techniques (3)
Basic principles, major theories and research in therapeutic psychology. Includes psychoanalytic, humanistic and behavioral models. (SP)
Prerequisite: PSY 1000, PSY 3540.

PSY 4950 Field Experience in Psychology (3)
A learning experience derived from a field experience, usually off-campus, related to the major. Specific job or volunteer work in institutional, industrial, governmental or social setting to be arranged in conference with course instructor. Weekly seminar to integrate course knowledge with field experience. (E, SSI)
Prerequisites: Junior or senior psychology major. Minimum 3.00 GPA in psychology, courses appropriate to specific placement and permission of instructor.

SOCIAL AND INTERPERSONAL APPROACHES

PSY 2630 Psychological Perspectives on Prejudice and Racism (3)
Use of psychological theory and research to explore the nature and causes of prejudice and racism. Students will examine their behavior and beliefs in the context of psychological theory and their own socialization. Methods of reducing prejudice and promoting fairness and multicultural sensitivity are examined. (FA)
Prerequisite: PSY 1000 or equivalent.

PSY 2640 Marriage and Family Relationships (3)
This course is designed to provide an overview of the formation, meaning, and function of marriage and family relationships. Different issues such as intimacy, communication, sexuality, ethnicity, dysfunctional behavior, and treatment will also be examined. (E)
Prerequisite: PSY 1000 or equivalent.

PSY 3000 Cross-Cultural Psychology (3)
Cultural factors that shape and affect human behavior. Factors include roles, norms, human-made objects, ideas, values, and institutions. Fields of psychology, examined from levels of the individual and universal, with culture-specific perspectives. (FA)
Prerequisite: PSY 1000.

PSY 3340 Psychology of Women (3)
An exploration of the theories and research on the physiological and psychological factors affecting contemporary women. Topics of interest to both males and females. (E, SSI)
Prerequisite: PSY 1000.

PSY 3341 Psychology of Women: Service Learning Module (1)
Students will use class content and service at selected sites to explore issues affecting contemporary women, and how these relate to psychological theories and research. (E)
Prerequisite: PSY 1000
Corequisite: PSY 3340

PSY 3630 Social Psychology (3)
The social determinants of behavior. An examination of theories and current research in such areas as: aggression, attitudes, communication, conformity, group processes and interpersonal perception. (E)
Prerequisite: PSY 1000.

PSY 3650 Understanding Self and Others (3)
Theory of group dynamics through small group interaction and structured exercises. Experientially based opportunities for learning about individual behavior in groups. Emphasis on building group skills applicable to family, social and work groups. (E, VWS, SSI)
Prerequisite: PSY 1000.

PSY 3680 Positive Psychology (3)
An introduction to positive psychology, including meaning, measurements, and its relationships with attributes such as self-regulation, happiness, and character strengths. (SP)
Prerequisite: PSY 1000.

MIND/BRAIN

PSY 3330 Psychology of Consciousness (3)
Survey of recent trends and findings in the psychological investigation of consciousness. Topical areas include theories of the mind, brain bilaterality, experienced time, dreams and hypnosis, language, meditation, biofeedback and consideration of the mind/body problem. (FO)
Prerequisites: Six hours of psychology and Junior standing.

PSY 3370 Psychology of Attention (3)
The course is an introduction to the multidisciplinary field of human attention. Important issues, theories, and models of attention from cognitive psychology, neuroscience, computational modeling and human factors will be explored. Discussion of the application of the various models to understanding attentional impairments, clinical diagnosis, and rehabilitation will also be included. (SE)
Prerequisite: PSY 1000

PSY 3380 Psychology of the Arts (3)
The psychological processes that make possible the creation of and response to the arts are explored by examining the psychology of the participants in the artistic process—the artist, the performer, the audience, and the critic. (SE)
Prerequisites: Six hours of psychology.

PSY 4360 Physiological Psychology (3)
Study of basic physiological processes involved in human behavior. Fundamentals of neuronal and synaptic activity in the nervous and endocrine systems, and their impact on behavior. Overview of perception, memory systems and psychological disorders. (FA)
Prerequisite: PSY 1000.

PSY 4380 Psychology of Perception (3)
Major mechanisms of human sensation and perception, neurophysiological pathways, cognitive processes which contribute to sensory information, and relations between sense modalities. (FO)
Prerequisite: PSY 1000.

PSY 4390 Cognitive Processes (3)
Processes of cognition including perception, sensory memory, short-term or working memory, long-term memory, retrieval from memory, response formulation, problem solving, creativity, concept formation, language acquisition, and intelligence. (SP)
Prerequisite: PSY 1000.

PSY 4440 Functional Neuropsychology (3)
Review of neurological variation and disorders associated with behavioral dysfunction or atypical development. Remediation alternatives based on neuropsychological research on such topics as brain organization, sensory-motor integration, dysphasia, biofeedback, and behavioral controls. (SP)
Prerequisites: BIO 2402 and PSY 3540.

VARYING FIELDS OF STUDIES

PSY 4960 Special Topics in Psychology (3)
Study of a particular area of psychology not covered comprehensively in one of the other advanced psychology courses. Topics to be announced by department. A student may receive credit more than once for PSY 4960 if a different topic is covered each time. (FA)
Prerequisites: PSY 1000, at least one Psychology course at the 3000 level and permission of the instructor

PSY 4970 Independent Study in Psychology (3)
In-depth study of an appropriate topic of individual interest under the supervision of a member of the department. Meeting hours arranged by the student and the instructor to consist of the equivalent of thirty 75-minute periods. Content not to duplicate any existing course. (E, SSI, SSII)
Prerequisites: Senior psychology major, 3.00 GPA in major and permission of instructor.

G.E. AND MAJOR CAPSTONE

PSY 4940 Seminar: Issues in Contemporary Psychology (3)
A synthesis of student's previous course work in psychology, with a consideration of significant current developments in theory, research and practice. Course content will integrate the liberal arts' foundation with the entirety of the students' experience in the psychology major. Students cannot receive credit for both PSY 4940 and 4945. (E, SSI, SSII)
Major/General Education Capstone Course.
Prerequisite: Open only to senior psychology majors. Petition required.

PSY 4945 Honors Seminar: Issues in Contemporary Psychology (3)
Synthesis of student's previous course work in psychology with a consideration of significant current developments in theory, research and practice. Completion of senior research project: data collection and analysis, oral and written presentations. May be substituted for PSY 4940. Credit cannot be received for both PSY 4940 and 4945. (SP)
Major/General Education Capstone Course.
Prerequisite: PSY 4235 and permission of instructor.

School of Social Sciences

The School of Social Sciences houses programs in Economics, Political Science and Sociology, and is committed to training students to become critically active and informed members of their communities, their governments, their societies, and their world.

Economics

The program offers a B.A. in Economics with an option in Teacher Certification. The Economics major introduces the student to the basic structure, processes, institutional framework and theories of the field of study. The student is trained in the analytical tools used in their study. Courses in economics prepare the student for graduate work in economics, finance, management, and law as well as corporate and public sector employment. Majors are urged to seek early advisement and to take additional mathematics and computer science courses if they plan on doing graduate work in Economics. Advisement by a Economics faculty member is required.

For more information about College of HSS programs, please see:
<http://www.kean.edu/academics/college-humanities-and-social-sciences>

B. A. DEGREE IN ECONOMICS (GENERAL) 124 S.H.

GENERAL EDUCATION REQUIREMENT 46-48

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition² 3

MATH 1044 Pre-Calculus for Business and Economics 3

COMM 1402 Speech Comm. As Crit. Cit. 3

GE 2021 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

AND

(Select **TWO** courses from different areas)

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

ID 1300 or ID 3230 3

Social Sciences 9

*HIST 1062 Worlds of History 3

AND

(Select **TWO** courses from the following areas, see approved Distribution Course List:)

Economics and Geography 3

Psychology 3

Political Science 3

Sociology or Anthropology 3

ID 2415 3

Science & Mathematics 10-11

*CPS 1032 Microcomputer Applications 3

AND

(Select **ONE** 4 credit lab science course from the approved GE distribution Course List.)

Astronomy, Biology, Chemistry, Earth Science, Geology, Meteorology, Physics, Interdisciplinary) 4

Select **ONE** 3 or 4 credit science course from the above GE list 3,4

Health/Physical Education 2-3

ID 1225 Issues in Contemporary Health 3

ID 1010 Leisure and Recreation in Multicultural Society 3

OR two one credit PED courses 1,1

MAJOR/GE CAPSTONE COURSE5 3

ECO 4500 Selected Topics in Economics 3

MAJOR REQUIREMENTS5 36

(All major courses require a "C" or better)

ECONOMICS FOUNDATION CORE 21

ECO 1020 Principles of Economics I 3

ECO 1021 Principles of Economics II 3

ECO 2120 Business Statistics 3

ECO 3020 Intermediate. Macroeconomics 3

ECO 3021 Intermediate. Microeconomics 3

ECO 3300 Money & Banking 3

ECO 4200 Econometrics 3

ECONOMICS MAJOR ELECTIVES 15

Select Five Economics Courses. At least 12 credits at the 3000-4000.

FREE ELECTIVES 37-40

(At least 50% must be at 3000-4000 level)

Footnotes

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

² ENG 1030 College Composition: Minimum grade of C required.

MINOR IN ECONOMICS

The department offers a minor in Economics. The requirement is 18 credits hours as noted:

ECO 1020, 1021

ECO 3020, 3021 and 3300

And one 3000/4000 level economics elective course.

(BUSINESS ECONOMICS OPTION)

Kean University is not currently offering this option to new students.

GE 1000 Transition to Kean¹ 1

GENERAL EDUCATION REQUIREMENT 54-61

FOUNDATIONS REQUIREMENTS2 123

ENG 1030 College Composition⁴ 3

MATH 1000 Algebra for College Students 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2021 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

(Select two courses from different areas)

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 9

*HIST 1000 History of Civil Society in America

OR HIST 1062 Worlds of History 3

ECO 1020 Principles of Economics I⁵ 3

ECO 1021 Principles of Economics II 3

Science & Mathematics 10-11

*CPS 1031 Intro to Computers 3

(Select TWO sciences; one must be a lab science:)

Biology 3-4

Chemistry or Physics 3-4

Astronomy, Earth Science, Geology or Metrology 3-4

Interdisciplinary 3-4

Health/Physical Education 2-3

ID 1225 Issues Contemporary Health 3

OR

Physical Education 2

CONCENTRATION 6-8

(Select with faculty advisement)

ADDITIONAL REQUIREMENT 3

CPS 1032 Micro. Applications 3

MAJOR/GE CAPSTONE COURSE5 3

ECO 4500 Selected Topics in Economics 3

MAJOR REQUIREMENTS5 48

REQUIRED COURSES 33

ECO 3200 Quant. Meth. 3

ECO 2120 Statistics for Business and Economics 3

MGS 2030 Organization & Management 3

ACC	2200	Princ. Acct. I	3
MGS	3040	Management Information Systems	3
FIN	3310	Corporate Finance I	3
ECO	3400	International Economics	3
ECO	3020	Intm. Macroeconomics	3
ECO	3021	Intm. Microeconomics	3
ECO	3300	Money & Banking	3
BL		Business Law I	3

MAJOR ELECTIVES 15

Select three of the following ECO & FIN courses:

ECO	3022	Managerial Economics	3
ECO	4200	Intro to Econometrics	3
ECO	3600	Ind. Org. & Public Policy	3
FIN	3311	Corporate Finance II	3
FIN	3350	International Business Finance	3
FIN	4310	Money & Capital Markets	3
FIN	4330	Working Capital Management	3

Select two courses from Economics, Finance, Accounting, or Co-op. Education: 6

FREE ELECTIVES 17-21

50% of free electives must be taken at the 3000-4000 level; no MGS, MKT, ACC, OR FIN in this area; FIN 1300, and Co-op are acceptable

B.A. DEGREE IN ECONOMICS (TEACHER CERTIFICATION OPTION)*

GENERAL EDUCATION REQUIREMENTS 47-48

FOUNDATIONS REQUIREMENT 13

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030	College Composition ⁴	3
MATH	1044	Precalculus for Business	3
COMM	1402	Speech Communication as Critical Citizenship	3
GE	2021	Research & Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities	9
ENG 2403 World Literature	3
AND	

Select TWO courses from the following areas:

Fine Arts or Art History	3
Philosophy or Religion	3
Foreign Languages	3
Music or Theatre	3
Interdisciplinary	3
Social Sciences	9
HIST 1062 Worlds of History	3
PSY 1000 General Psychology	3
SOC 1000 OR ANTH 1800	3

Science & Mathematics	10-11
CPS 1032 Microcomputer Applications	3
(Select <u>ONE</u> 4 credit lab science course from the approved GE distribution Course List.)	

Astronomy, Biology, Chemistry, Earth Science, Geology, Meteorology, Physics, Interdisciplinary)	4
Select <u>ONE</u> 3 or 4 credit science course from the above GE list.	3,4

Health/Physical Education	3
ID 1225 Issues Contemporary Health	3

ADDITIONAL REQUIREMENTS 21

MATH 2400 Calculus for Business	3
GEOG 2010 World Geography	3
ID 2955 Disabled Person in American Society	3
PSY 2110 Psychology of Adolescence	3
HIST 2303 U.S. History to 1877	3
HIST 2304 U.S. History 1877 to Present	3
HIST 3226 History of NJ	3

MAJOR/GE CAPSTONE COURSE 3

ECO 4500 Selected Topics in Economics	3
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MAJOR REQUIREMENTS 36

ECONOMICS FOUNDATION CORE 21

ECO 1020 Principles of Macroeconomics	3
ECO 1021 Principles of Microeconomics	3
ECO 2120 Business Statistics	3
ECO 3020 Intm. Macroeconomics	3
ECO 3021 Intm. Microeconomics	3
ECO 3300 Money & Banking	3
ECO 4200 Econometrics	3

MAJOR ELECTIVES 15

(Select five ECO courses, at least 12 credits at the 3000-4000 level:)

PROFESSIONAL EDUCATION 30

(A B- grade required in all Professional Education courses)

Sophomore Level

EMSE 2801 Intro. Field Experience	3
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Junior Level

EDUC 3000 Curr. Eval. & Learner	3
EDUC 3401 Language Arts/Reading K-12	3
EMSE 3122 Computers in Education	3
EMSE 3240 Social Studies K-12 (W-E)	3
EMSE 3801 Junior Field Experience	2
EMSE 3903 English Language Learners in American Schools	1

Senior Level

EMSE 4811 Professional Internship	9
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CAPSTONE COURSE

EDUC 4000 Teacher & Classroom	3
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TOTAL 134

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

* Please see Secondary Education section of this catalog and advisor about required minimum GPA (3.0), required minimum grades in specific courses, PRAXIS exams, and other requirements for Education majors.

ECONOMICS COURSES

GENERAL

ECO 1000 Economic Issues (3)
Economic Issues introduces current issues from an economic perspective, analyzes the issues, considers policy implications of them, and debates alternative views. Credit for the course does not count toward the economics major. (E)

THEORY, HISTORY, SYSTEMS, ENVIRONMENT

ECO 1020 Principles of Economics I (3)
The American economy; aggregate economics with emphasis on the relationships of income, consumption, savings and investment; money and banking, economic growth and the role of government. (The 1020-1021 sequence may be taken in either order.) (E)

ECO 1021 Principles of Economics II (3)
The allocation of resources and distribution of income through the price systems with emphasis on the American economic system. (The 1020-1021 sequence may be taken in either order.) (E)

ECO 2030 History of Economic Thought (3)
The development of economic thought with special emphasis on Aristotle, Mercantilism, Physiocrats, Hume, the Classical School, Marx and the Neo-Classical School. (E3)

ECO 2040 American Economic Development (3)
Development of the American economy from colonial times to the present, including the development of agriculture and industry, the impact of technology and the evolution of the banking system. (E3)

ECO 2041 European Economic Development (3)
Economic development of Europe from ancient times to the present with emphasis on medieval era, Reformation, Industrial Revolution and conditions in the 20th century. (E3)

ECO 2120 Statistics for Business and Economics (3)
The methods for the collection, presentation and analysis of business and economic data, including sampling, the estimation of population parameters, index numbers, probability theory, the normal distribution, confidence intervals, testing of hypothesis, regression and correlation. (E)

ECO 3020 Intermediate Macroeconomics(3)
An analysis of economic aggregates. Interrelationship between money supply, interest rates, output and employment. Classical, Keynesian, post-Keynesian theories. (E)
Prerequisites: ECO 1020-1021.

ECO 3021 Intermediate Microeconomics (3)
Theory of value and distribution. Prices, output and factor proportion problems of firms operating under conditions of competition, monopolistic competition, oligopoly and monopoly. (E)
Prerequisites: ECO 1020-1021.

ECO 3022 Managerial Economics (3)
The course develops a foundation of economic understanding for use in managerial decision making. A comprehensive treatment of economic theory focusing on the use of managerial economic tools and techniques in specific decision-making settings is developed. The nature of the decision process and the role economic analysis plays in that process are emphasized. (E)
Prerequisites: ECO 1020, 1021.

ECO 3050 Comparative Economic Systems (3)
Principles and practices of capitalism, socialism and communism with special emphasis on the economics of the U.S. and Soviet-style economies. (E3)
Prerequisites: ECO 1020 - 1021

ECO 3051 The Capitalist System (3)
An analysis of the functioning of the capitalist system with respect to social problems. Conservative and liberal views sympathetic to the market system are contrasted with radical views that are unsympathetic to capitalism. (E3)
Prerequisites: ECO 1020 and 1021.

ECO 4050 Seminar in Comparative Economic Systems (3)
A study of contemporary alternative modes of economic organization and the rationale for these modes. Special attention is devoted to the U.S., Britain, Scandinavia, China, and Soviet-style economies. (E3)
Prerequisites: ECO 1020 and 1021.

ECO 4500 Selected Topics in Economics (3)
The course surveys areas in Economics and/or Finance influenced by contemporary developments in the disciplines that result from changes in the economy, technology or methodological breakthroughs. (SO)
Prerequisites: ECO 3020, ECO 3021, CAPSTONE COURSE

DEVELOPMENT, PLANNING, FLUCTUATIONS

ECO 3100 Economic Development (3)
A brief survey of development theories. Problems and factors of economic development. Case studies of underdeveloped countries. (FE)

ECO 3110 Latin American Economic Development (3)
Examination and critical analysis of Latin American Economic Development Strategies. Discussion of resource constraint, policy application and development issues in Latin America. Emergence of newly industrialized Latin American countries and new international economic order are evaluated. (E3)
Prerequisites: ECO 1020, 1021.

ECO 4100 Business Cycle Theory (3)
Historical and theoretical analysis of business cycle theory. Measures to control cyclical fluctuations and methods of investment forecasting.
Prerequisites: ECO 1020-1021. (FE)
Writing Emphasis Course

QUANTITATIVE METHODS

ECO 3200 Introduction to Quantitative Methods in Economics (3)
Mathematical statement of equilibrium, maximization and minimization of economic models. Introduction to dynamic techniques and linear production models. Review of necessary mathematics. (E)
Prerequisites: ECO 1020 and 1021.

ECO 4200 Introduction to Econometrics (3)
The testing and construction of economic models using mathematical and statistical models. Application in macroeconomics. (E)
Prerequisites: ECO 1020, 1021 and ECO 2120.

MONETARY AND FISCAL THEORY AND INSTITUTIONS

ECO 3300 Money and Banking (3)
The nature and function of money, operations of banks, the Federal Reserve System and the Treasury. Income and monetary theory and its applications to achieve stability, employment and growth. (E)
Prerequisites: ECO 1020-1021.

ECO 3320 Public Finance (3)
Principles of taxation, budgeting, public expenditure, debt management and fiscal policy with special reference to federal, state and local governments. (SO)
Prerequisites: ECO 1020-1021.

ECO 4300 Monetary and Fiscal Policy (3)
An examination of different hypotheses dealing with the mechanisms through which variations in the national budget and the money supply are said to affect such problems as unemployment, inflation, economic growth and the balance on international payments. (E3)
Prerequisite: ECO 3020.

ECO 4310 Monetary Economics (3)
A theoretical analysis of topics in monetary theory and policy; demand and supply of money; monetary influences on prices and interest rates; monetary channels; instruments and targets; lags in the effect of monetary policy. (E3)
Prerequisites: ECO 1020, 1021, 3020.
Recommended: ECO 3300, 3200, 4200.

INTERNATIONAL

ECO 3400 International Economics (3)
Principles of international trade, international finance and exchange. Introduction to the major international organizations. (E)
Prerequisites: ECO 1020-1021.

ECO 4420 Advanced International Economics (3)
A theoretical analysis of advanced topics in international trade. An investigation into the causes of international specialization, balance of payments, trade policy and the relation of international trade to growth and development. (E3)
Prerequisites: ECO 3100 and 3110.

ECO 4430 International Monetary Economics (3)
Analysis of the balance of payments accounts and adjustment policies. Determination of exchange rates, foreign exchange markets and the appropriate use of monetary and fiscal policy for a fixed versus a flexible exchange rate system. (E3)
Prerequisites: ECO 3020 and 3021.

ECO 4440 Seminar in International Economics: Advanced Theory and Policy (3)
Recent literature covering topics in advanced international economic theory and policy. Application of received theory to problems in international trade and finance including international monetary arrangements, the growth of world trade, customs, unions, the distribution of income, and economic growth and development. (E3)
Prerequisite: ECO 3400.

INDUSTRIAL ORGANIZATION; INDUSTRY STUDIES

ECO 3600 Government and Business (3)
The development of public policies towards business. The principles, purposes and effectiveness of anti-trust laws and other government regulations of business. (SE)
Prerequisites: ECO 1020-1021.

ECO 3610 Industrial Organization and Public Policy (3)
An analysis of American market structure with a consideration of the conduct and performance of industries under different modes of competition. An analysis of different public policy measures for improving industrial performance from a social viewpoint. (E3)
Prerequisites: ECO 1020 and 1021.

ECO 3630 The Economics of Transportation (3)
The operation of domestic transport modes, comparing the actual allocation of transportation resources with an ideal allocation dictated by free market criteria. The economic effects of regulation, subsidization and intermodal competition. Evaluation of proposals for integrated operation of the national transportation network. (E3)
Prerequisites: ECO 1020-1021.

GEOGRAPHY

ECO 3730 Economic Geography (3)
Man's economic activities in relation to environmental factors: climate, resources and cultural influences. (E3)
Perquisites: ECO 1020 - 1021

MANPOWER, LABOR, POPULATION

ECO 3800 Labor Economics I (3)
Economic analysis applied to the labor market and the wage structure; wage theories and policies; collective bargaining and unionism; labor problems. (SE)
Prerequisites: ECO 1020 and 1021.

ECO 3801 Labor Economics II
The economic behavior of employment and earnings; wages and inflation; social security and welfare programs; public policy; manpower and human capital formation. (E3)
Prerequisites: ECO 1020, 1021 and/or 3800.

ECO 3820 The Economics of Crime and Punishment (3)

A theoretical and empirical investigation into the economic forces that shape crime and punishment in the U.S. The course, using the tools of economic analysis, focuses on the social nexus of capitalism and crime, plutocracy and punishment, race and class; and how those relationships define, justify, and encourage the rise of the modern penal colony. (E3)

Prerequisites: ECO 1020 and 1021.

ECO 3840 Population Economics (3)

The economic determinants of population growth. Various economic theories of fertility behavior. The effects of rapid population growth on the economy, especially of population growth on savings, natural resources and the environment. (E3)

Prerequisites: ECO 1020 and 1021.

WELFARE, HEALTH, CONSUMER, URBAN, REGIONAL

ECO 2900 The Economics of Poverty (3)

The impact of industrialization and urbanization on society and the change in the attitude towards poverty. Theoretical aspects of the nature of poverty and the reasons for its existence in the U.S. The development of federal anti-poverty policies and programs. (E4)

Prerequisite: Eco 1020 - 1021

ECO 2920 Consumer Economics (3)

The general framework within which consumer choices are exercised; the tools of personal economic choice applied to consumption and investment decisions. (E3)

Prerequisite: ECO 1021.

ECO 3900 Economics of Discrimination (3)

The course surveys theories of economic discrimination. In a diverse society, it examines the social groups that suffer discrimination most and its resulting income/wealth distribution impact. Policies to improve domestic discrimination are studied and reviewed. Also, international aspects of discrimination are examined. (E)

Prerequisites: ECO 1020, ECO 1021.

ECO 3910 Health Economics (3)

Use of tools of economic theory in the study of special problems of health resources, markets, manpower shortages, insurance programs, Medicare and Medicaid. (FA)

Prerequisite: ECO 1021.

ECO 3930 Urban Economics (3)

An investigation of economic influence on the organization and form of urban areas. Problems and public policy issues in urban transportation, public finance, housing and poverty analyzed in relation to the evolving economic structure of metropolitan areas. (SP)

Prerequisites: ECO 1020 and 1021.

ECO 4801-4806 Cooperative Education-Economics (1-6)

Students will take one or two semesters of off-campus, on-the-job training in various aspects of economics. Interrelationships between theory and practice will be emphasized. Students may take a maximum of six credits in Cooperative Education in their major.

Prerequisites: ECO 3020, 3021. Juniors and Seniors majoring in economics, and subject to approval by faculty adviser.

ECO 4930 Regional and Urban Economic Theory (3)

A theoretical treatment of the factors that determine the economic base, growth, and development of economic regions with special emphasis on metropolitan regions. (E3)

Prerequisites: ECO 1020 and 1021.

Political Science

Political Science concerns itself with the study of governments and governing procedures; what they are, how they change and what one thinks they should be. This includes international organizations, national states and sub-units of nations. While political science is concerned with understanding legislative, executive and judicial bodies that are formally part of government, it is also concerned with the political activities and influence of many other related groupings. It considers, for example, political parties, voting behavior and interest groups, as well as relevant activities of other organizations and individuals. The entire process by which public policy is formulated and executed ("who gets what, when, where and how") constitutes the field of political science.

For more information about College of HSS programs, please see:
<http://www.kean.edu/academics/college-humanities-and-social-sciences>

B.A. DEGREE IN POLITICAL SCIENCE 124

GENERAL EDUCATION 46-48

FOUNDATION REQUIREMENTS² 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition 3

MATH 1016 Statistics 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2023 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS:

Humanities 9

ENG 2403 World Literature 3

Select two courses from different areas:

Fine Arts or Art History 3

Foreign Languages 3

Music or Theatre 3

Philosophy or Religion 3

Interdisciplinary 3

Social Sciences 9

HIST 1062 Worlds of History 3

Select two courses from different areas:

Economics or Geography 3

Political Science 3

Psychology 3

Sociology or Anthropology 3

Interdisciplinary 3

Science and Mathematics 10-11

Math 1010; 1030; 1054;

OR

CPS 1031; 1032; 1231 3

Lab Science

Biology; Chemistry; Physics; Geology

Meteorology; Earth Science; Astronomy 4

Additional Science Course:
 Interdisciplinary or one 3, 4

Different science course from above
 (3 or 4 credits)

Health and Physical Education 2-3

ID 1225 or ID 1010 3

OR

Two one credit PED courses 2

MAJOR/GE CAPSTONE COURSE 3

PS 4130 Senior Seminar:
 Political Issues 3

ADDITIONAL REQUIRED COURSES 9

(Three 3000-Level Courses from among the following subject areas: Communications, English, Foreign Languages, History, Philosophy Social Work, Sociology and Anthropology)

MAJOR REQUIREMENTS⁵ 30

REQUIRED COURSES 12

**PS 1010 Introduction to Politics I:
 Elements of Politics 3

PS 2100 American Government
 and Politics 3

PS 2300 Introduction to
 Comparative Government 3

OR

PS 2400 Introduction to
 International Relations 3

One course from political theory area 3

MAJOR ELECTIVES 18

Six political science courses, five of which must be at the 3000-4000 level; of these five courses, at least 3 must be 3000-level courses. One course must be a writing emphasis course.

FREE ELECTIVES 37-39

At least 50% must be at 3000 level or above.

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

² See prerequisites and equivalencies.

⁴ Not Required of students with a second major, minor or collateral.

⁵ Require grade of C or better.

*Required Distribution Course

**Prerequisite for PS 4130

POLITICAL SCIENCE MINOR

REQUIREMENTS 21

PS 1010 Introduction to Politics:
 Elements of Politics 3

PS 2100 American Gov't and Politics 3

PS 2300 Introduction to
 Comparative Government 3

OR

PS 2400 Introduction to
 International Relations 3

ELECTIVES 12

Four courses in political science, three of which must be at the 3000-4000 level, selected with advisement. May include one course in public administration, with prior approval of department chairperson.

B.A. DEGREE

OPTION: INTERNATIONAL/COMPARATIVE POLITICS 124

GENERAL EDUCATION 46-48

FOUNDATION REQUIREMENTS² 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition⁵ 3

MATH 1016 Statistics 3

COMM 1402 Speech Communication
 as Critical Citizenship 3

GE 2023 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS:

Humanities 9

ENG 2403 World Literature 3

Select two courses from different areas:

Fine Arts or Art History 3

Foreign Languages 3

Music or Theatre 3

Philosophy or Religion 3

Interdisciplinary 3

Social Sciences 9

HIST 1062 Worlds of History 3

**PS 1010 Introduction to Politics 3

****PS 2300 Introduction to
 Comparative Politics 3

Science and Mathematics 10-11

Math 1010; 1030; 1054; or
 CPS 1031; 1032; 1231 3

Lab Science

Biology, Chemistry; Physics; Geology; 3

Meteorology; Earth Science, Astronomy

Additional Science Course:

Interdisciplinary or one 3 or 4

Different science course from above
 (3 or 4 credits)

Health and Physical Education 2-3

ID 1225 or ID 1010 3

OR

Two one credit PED courses 2

MAJOR/GE CAPSTONE COURSE 3

PS 4130 Senior Seminar:
 Political Issues 3

ADDITIONAL REQUIREMENTS 9

Select three of the following; one must be from Social Sciences + below:

+ECO 3050 Comparative Economic
 Systems 3

+ECO 3400 International Economics 3

PHIL	3300	Social and Political Philosophy	3	PS	4400	Honor Seminar in International and Comparative Politics	3	Lab Science		
PHIL	3313	Justice and Human Rights	3	PS	4410	Seminar in International Politics	3	Biology; Chemistry; Physics; Geology		
REL	1700	Introduction to Comparative Religion	3	PS	4420	Seminar in African Politics	3	Meteorology; Earth Science; Astronomy		
MKT	4220	International Marketing	3			One Political Science course other than those listed above	3	Additional Science Course: Interdisciplinary (ID) or one different		
PA	2000	Introduction to Public Administration	3	FREE ELECTIVES	37-39			Science course from above	3	
PA	3110	American Federalism	3			<i>Selected with advisement. At least 50% must be at 3000 level or above.</i>		<i>Health and Physical Education</i>	3	
CJ	3640	Comparative Criminal Justice Systems	3	TOTAL	124			ID 1225 Contemporary Health	3	
+ANTH	1800	Cultural Anthropology	3			¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).		MAJOR/GE CAPSTONE COURSE	3	
+SOC	3170	Japanese Challenge	3			² See prerequisites and equivalencies.		PS 4130 Senior Seminar: Political Issues	3	
+HIS	2510	Political History of Africa in the 20th Century	3			⁵ Require grade of C or better.		ADDITIONAL REQUIREMENTS²	24	
+HIS	3400	Diplomatic History of the Far East	3			**Prerequisite for PS 4130		ECO 1020 Principles of Economics I	3	
+HIS	4366	American Foreign Affairs	3			****Course required for IR/Comp. Pol. Option		GEOG 2010 Geography of Man	3	
MAJOR REQUIREMENTS⁵	30			B.A. DEGREE				HIST 1030 Western Civilization	3	
REQUIRED COURSES	12			OPTION: TEACHER CERTIFICATION 131				HIST 2303 US History to 1877	3	
PS 2100 American Government and Politics	3			Students choosing this option must make a formal application for admission to the IEL Department. Prior to taking education courses, all prerequisites must be met.				HIST 2304 United States History, 1877 to Present	3	
PS 2400 Introduction to International Relations	3			GENERAL EDUCATION AND ADDITIONAL LIBERAL ARTS REQUIREMENTS²	47			HIST 3326 History of New Jersey	3	
PS 3550 Scope and Methods of Political Science	3			FOUNDATION REQUIREMENTS³	13			PSY 2110 Psychology of Adolescence	3	
One course from political theory area	3			GE 1000 Transition to Kean ¹	1			ID 2955 Disabled Persons in American Society	3	
MAJOR ELECTIVES	18			OR				MAJOR REQUIREMENTS⁶ 30		
Six courses selected with department advisement, at least 3 of which must be 3000-level courses. Students must take at least one seminar and one writing emphasis course.				GE 3000 Transfer Transitions ¹	1			**PS 1010 Introduction to Politics I: Elements of Politics	3	
PS 3240 Theory of International Relations	3			ENG 1030 College Composition ⁵	3			PS 2100 American Government and Politics	3	
PS 3300 Comparative European Politics and Government	3			MATH 1016 Statistics	3			PS 2300 Introduction to Comparative Politics	3	
PS 3310 Comparative Non-Western Government	3			COMM 1402 Speech Communication as Critical Citizenship ⁵	3			OR		
PS 3320 Politics of the Middle East	3			GE 2023 Research and Technology	3			PS 2400 Introduction to International Relations	3	
PS 3330 Far Eastern Politics	3			DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS				One course in political theory	3	
PS 3340 Latin American Politics	3			Humanities	9			MAJOR ELECTIVES	18****	
PS 3341 Central American Politics	3			ENG 2403 World Literature	3			Six political science courses, including five on the 3000-4000 level. Of these five courses, at least 3 must be at the 3000-level. One course must be a writing emphasis course. Students may take HIST 3000 as a substitute for one of their upper-level major elective courses.		
PS 3350 Totalitarian Politics	3			Select two courses from different areas:				PROFESSIONAL EDUCATION REQUIREMENTS⁶	30	
PS 3360 Southern African Politics	3			Fine Arts or Art History	3			Field Experience	15	
PS 3400 Politics of War & Peace	3			Foreign Languages	3			EMSE 2801 Introductory Field Experience K-12	3	
PS 3410 International Organizations	3			Music or Theatre	3			EMSE 3801 Junior Field Experience K-12	2	
PS 3418 Arab-Israeli Conflicts	3			Philosophy or Religion	3			EMSE 3903 Teaching ELL	1	
PS 3420 International Law	3			Interdisciplinary	3			EMSE 4801 Professional Internship: Secondary Education	9	
PS 3430 International Terrorism	3			Social Sciences	9			Education Core	9	
PS 3440 International Relations of Latin America	3			HIST 1062 Worlds of History	3			EDUC 3401 Language Arts/Reading K-12	3	
PS 3450 Conduct of US Foreign Policy	3			SOC 1000 OR ANTH 1800	3			EDUC 3000 Curriculum, Evaluation and Learner	3	
PS 3460 Human Rights and Politics	3			PSY 1000 General Psychology	3			EDUC 4000 Teacher and Classroom	3	
PS 3470 The Politics of International and Comparative Politics	3			Science and Mathematics	10-11			Specialty	6	
PS 3480 The Political Economy of Violence	3			Math 1010				EMSE 3240 Social Studies K-12 WE	3	
PS 3490 U.S.-China Relations Since World War II	3							EMSE 3122 Computers in Education	3	
				TOTAL	131					

*A maximum of two C's in all academic major courses. All other grades in academic major courses must be B- or better.

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

² A grade of C or better is required for all Additional Requirements courses.

³ See prerequisites and equivalencies.

⁴ Not Required of students with a second major, minor or collateral.

⁵ Require grade of C or better.

⁶ A "B-" or better is required for all professional education courses with the exception of EMSE 3801 and EMSE 4801, which require a grade of Satisfactory.

**Prerequisite for PS 4130

****HIST 3000 (Perspectives on History) is strongly recommend as a PRAXIS Exam preparation course.

POLITICAL SCIENCE COURSES

HONORS COURSES

Students completing a minimum of two honors courses in political science will receive an honors certification from the department, if their cumulative average in such courses is 3.5 and they complete their overall major requirements in political science with a minimum average of 3.45. Students who receive honors certification may count one honors course toward the minimum 30 credit requirement in their major, but all additional honors courses must be beyond this minimum requirement. Students who wish to take individual "Honors" designated courses should have a GPA of at least 3.0.

Students should also be aware that they may take no more than 40 credits in political science, including honors courses, toward meeting the minimum 124 credit requirement for graduation.

INTRODUCTORY COURSE

PS 1010 Introduction to Politics: Elements of Politics (3)

The concepts, terminology, problems and analytical approaches of the field of political science. General Education Breadth Course. Required course for PS Majors and Minors. (E)

AMERICAN GOVERNMENT COURSES

PS 2100 American Government and Politics (3)

The basic political principles and institutions and modes of citizen involvement in the American political system. General Education Breadth Course (E)

Required Course for PS Majors and Minors Satisfies General Education disciplinary and Interdisciplinary requirement in Social Sciences.

PS 2110 American State and Local Political Systems (3)

A systems analysis applied to American state and local politics, including the socio-economic setting and the responsiveness of American state and local political systems to current issues. (E)

PS 3100 The Legislative Process (3)

An analysis of the formal and informal institutions and processes of the United States Congress. (FO)

Prerequisites: PS 1010, 2100 or permission of instructor.

PS 3120 Political Parties (3)

The study of the behavior of American parties and interest groups and a comparison of their actions with theories of democracy. (FO)

Prerequisite: PS 1010, 2100 or permission of instructor.

PS 3130 The American Judicial Process (3)

The politics of the American judicial system, how cases come before the courts and their impact upon the political system. (E3)

Prerequisite: PS 1010, PS 2100 or permission of instructor.

PS 3135 Political Participation (3)

Fundamental questions of "citizen politics" with the main emphasis on the nature and function of political participation in the American political process. (FE)

Prerequisite: PS 1010, PS 2100 or permission of instructor.

PS 3140 The American Presidency

In-depth study of the presidency in terms of its institutional and behavioral aspects, with special emphasis on the exercise of the powers of the presidency. (E3)

Prerequisites: PS 1010, and 2100 or permission of instructor.

PS 3145 American Institutions and the Politics of Public Policy (3)

Examination and critical analysis of public policy making structures, processes and outcomes; emphasis on roles and interaction of the president, congress, judiciary, media and interest groups in domestic policy processes; and discussion and debate of prominent national issues. Several issue topics will be debated by students during the semester. (E3)

Prerequisites: PS 1010, PS 2100 or permission of instructor.

PS 3150 American Constitutional Law (3)

Development of American Constitutional law, both doctrinal and behavioral. Landmark cases examined, along with political and social topics, leading to an analysis of the position of the Supreme Court in the American system. (FA)

Prerequisite: PS 1010, PS 2100 or permission of instructor.

PS 3151 Constitutional Law: Civil Liberties (3)

The First Amendment to the Constitution and the Equal Protection Clause of the Fourteenth Amendment. (SP)

Prerequisite: PS 1010, PS 2100 or permission of instructor.

PS 3160 Ethnic Politics in the United States (3)

Evaluation of the importance and impact of ethnic identifications in American politics: organizational styles characteristic of various ethnic groups; differences in political culture and political behavior among groups; and an assessment of the relative success of different ethnic groups in achieving their objectives. (SO)

Prerequisite: PS 1010, PS 2100 or permission of instructor.

PS 3165 Women in American Political Life (3)

An examination of the diverse and changing roles played by women in the American political system; women as political participants, as office-holders and as advocates of issues relevant to their own needs; the differences between men and women in political behavior, the problems of women in government and the impact of the women's movement in public policy. (E3)

Prerequisite: PS 1010, PS 2100 or permission of instructor.

PS 3170 New Jersey: State Government and Politics (3)

An examination of governmental institutions and decision-making processes in New Jersey state government. Topics include: legislative-executive interaction, policy-making in departments and agencies, and current issues. (FA)

Prerequisite: PS 1010, PS 2100 or permission of instructor.

PS 3190 Politics of Public Bureaucracies (3)

Examination, analysis and critique of the political framework and process within which national government bureaucracies function; emphasis on the role(s) of cabinet level department and agency executives as political actors in the policy processes of initiation, development and legitimization; executive control and bureaucratic inertia in the politics of implementation; and sources and outcomes of public agency political influence. Current issues will serve to provide a context for discussion. (SO)

Prerequisites: PS 1010, PS 2100 or permission of instructor.

PS 4100 Honors Seminar in American Government and Politics (3)

Open to advanced political science majors. Concentration on in-depth analyses of particular aspects of American political institutions and processes. As topics vary, course, where appropriate, may be taken more than once for credit. (See comment on political science honors courses). Students who wish to take this course should have a GPA of at least 3.0. (E3)

Permission of instructor is needed.

PS 4130 Senior Seminar: Political Issues (3)

International and National Issues of the day are studied in both their historical and institutional setting. (E)

Required capstone course for all political science majors.

PS 4170 Seminar in New Jersey State Government and Politics (3)
Concentration on in-depth analyses of particular aspects of New Jersey political institutions and processes. Focus of course may vary from semester to semester. Flexibility in time scheduling may be required. (E3)
Prerequisites: PS 1010 and permission of instructor.

PUBLIC LAW COURSES

PS 3680 Constitutional Law: Criminal Procedures (3)
An analysis of the development of the Fourth, Fifth and Sixth Amendments to the Constitution, the effect of the Due Process clause of the Fourteenth Amendment on the application of the Bill of Rights, and related issues revealed in leading Supreme Court decisions in criminal justice. Writing Emphasis Course. (E)
Prerequisite: CJ 2600 or permission of instructor.

PS 3815 Law and Public Policy (3)
The legislative role and policy consequences of law and procedures in the United States. Analysis and critique of the politics of issue identification, as well as the development, enactment and implementation of public policy solutions. Emphasis on judicial decisions and interpretations in the development of federal and state law and procedures. (E)
Prerequisites: 6 credits in political science including PS 2100.

PS 3845 Regulatory Law and Public Policy (3)
A historical and contemporary survey, review and analysis of regulatory policy in the United States; examine, in depth, the relevant political and policy issues related to legislating and enforcing regulatory standards and rules. An analysis and critique of the politics and policy impacts of selected cases in environmental, health and safety regulation, e.g., ground water and air pollution, smoking, pharmaceuticals and worker safety. (E3)
Prerequisites: 6 credits in political science or permission of instructor.

PS 4850 Seminar: The Rule of Law in Society (3)
Open to juniors and seniors only. An in-depth analysis of contemporary problems and issues related to the American legal system and society. Since issue topics will vary from semester to semester, the course may be taken more than once for credit, with departmental permission. (SO)
Prerequisites: 18 credits in political science, including PS 2100 and PS 3150.

POLITICAL THEORY COURSES

PS 3200 Classical Political Theory (3)
A study of classical European political thought from pre-Platonic times to the dawn of the modern age. The contribution of individual theorists to the solution of economic, social, and political problems of their times. (E3)
Prerequisite: Six hours of political science or permission of instructor.

PS 3210 Early Modern Political Theory: Machiavelli to Rousseau (3)
European political thought from the 16th to the 18th century, with special emphasis upon the major theorists from the Renaissance to the Enlightenment. (E3)
Prerequisite: Six semester hours in political science or permission of the instructor.

PS 3220 Modern Political Thought: 19th and 20th Centuries (3)
Survey and analysis of the principal theories and ideologies of the 19th and 20th centuries. Variants of Marxism, liberalism, conservatism, libertarianism, and fascism will be studied. (E3)
Prerequisites: Six hours of political science or permission of instructor.

PS 3240 Theory of International Relations (3)
An examination of war and peace as alternating phases of relationships among nation-states. The various causes of war and approaches to securing peace. (E3)
Prerequisites: six hours of Political Science or permission of the instructor.

PS 3250 American Political Theory (3)
The central doctrinal developments in American political theory, from pre-revolutionary beginnings to various contemporary positions. Important ideological positions, both orthodox and critical. The influence of theory on practice. (E3)
Prerequisites: six hours of Political Science or permission of instructor.

PS 4200 Honors Seminar in Political Theory (3)
Open to advanced Political Science majors. An in-depth analysis of perennial questions and problems regarding the nature and purpose of political life and their application to contemporary political and/or moral issues. (E3)
Prerequisites and or Corequisites: Eighteen (18) credits in political science; 3.0 GPA.

COMPARATIVE POLITICS COURSES

PS 2300 Introduction to Comparative Politics (3)
The history, methodology, and general theoretical foundations of the field of comparative politics. Institutions, structures, and processes of pluralistic-liberal democracies and Marxist-Leninist societies are compared. (E)
Satisfies GE disciplinary/interdisciplinary requirement in Social Sciences.
General Education Breadth Course.

PS 3300 Comparative European Government and Politics (3)
The comparative study of political institutions in Eastern and Western Europe, including such countries as Russia, United Kingdom, France and Germany. (E3)
Prerequisites: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3310 Comparative Non-Western Government (3)
A comparative analysis of the governments and policies of the non-western nations with emphasis upon the study of change and stability in their political ideology and institutions; the process of political development and the problems of political leadership. (E3)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3320 The Politics of the Middle East (3)
A comparative study and analysis of the government and policies of the nations of the Levant with major focus on political development and change in the region; emphasis on institutions, leadership, and policy-making. (E3)
Prerequisites: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3330 Far Eastern Politics (3)
A study of political culture, ideologies, political parties, constitutions, governmental institutions and policies in China, Japan, and Taiwan. (E3)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3340 Latin American Politics (3)
A study of political culture, ideologies, political systems with emphasis on political culture, political development and the conflict between tradition and modernity. (E3)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3341 Central American Politics (3)
An analysis of Central America's socio-economic and political developments from the nineteenth century to the present, with emphasis on revolutions, civil wars, regime changes, transitions to peace, democracy, and free market economics. (E3)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3350 Totalitarian Politics (3)
Survey and analysis of the doctrine and practice of unlimited state power. (E3)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3360 Southern African Politics (3)
This course is aimed at promoting a greater understanding of the last remnant of the old paradigm, apartheid, and the current shift to a new paradigm which has been generated through South Africa's first multi-racial elections. An in-depth examination of the political, economic, and social challenges of contemporary South Africa as well as the impact of the nation's policies on the entire Southern African regions will be explored. (FA)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

INTERNATIONAL RELATIONS COURSES

PS 2400 Introduction to International Relations (3)

A critical examination of the nature of nation-state relations, also the relations between nation-states and nonstate actors like international organizations and multinational corporations. Required. Satisfies GE disciplinary requirement in Social Sciences. (E)
General Education Breadth Course

PS 3400 The Politics of War and Peace (3)

An examination of war and peace as alternating phases of relationships among nation-states. The various causes of war and approaches to securing peace. (FE)
Prerequisite: PS 1010, PS 2300 or PS 2400 or permission of instructor.

PS 3410 International Organization (3)

A study of the creation and existence of those institutions designed to resolve international conflicts and promote international cooperation, with special emphasis upon the United Nations. (E3)
Prerequisites: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3418 The Arab-Israeli Conflict (3)

Analysis of the nature of the Arab-Israeli conflict, its roots, its background and prospects of its resolution; emphasis on direct participants and forces in the conflict. (E3)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3420 International Law (3)

A study of the principles and historical development of the principles of international law, particularly in the latter part of the twentieth century. The topics include sovereignty, jurisdiction, human rights and state responsibility. (E3)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3430 International Terrorism (3)

An examination of the evolution of political violence and the strategies of contemporary terrorism by international and transnational revolutionary groups. A critical analysis of the social, political, economic and legal ramifications on society and governments resulting from international terrorist activities. (E)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3440 International Relations of Latin America (3)

A focus on Latin American states and their relationship with the US and the rest of the world. An analysis of the changing position of Latin America in the international division of labor and the security system since the collapse of Spanish Colonialism. (E3)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3450 Conduct of US Foreign Policy (3)

A study of political and administrative institutions and processes involved in foreign policy making. The development of foreign policy. How political and administrative organizations respond to change. The substance of modern foreign policy questions. (E3)
Prerequisites: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3460 Human Rights and Politics in the 20th Century (3)

An exploration and evaluation of the development of human rights and its impact on the politics and institutions of the 20th century. (E3)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3470 The Politics of International Economic Relations (3)

Description and analysis of the reciprocal and dynamic interaction in international relations of the pursuit of wealth and the pursuit of power. A discussion of the role of the United States in the management of post-World War II international relations, the emergence of Japan as a superpower, and the developing world's question for a new international economic order. (E3)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3480 The Political Economy of Violence (3)

A study of the relationship between socio-economic development and violence with emphasis on the political and criminal manifestation of that relationship. It explores also the social, political and economic functions of violence in a globalized world. (E3)
Prerequisite: PS 1010, PS 2300 or PS 2400, or permission of instructor.

PS 3490 U.S.-China Relations Since World War II (3)

Examination and critique—of the competing theoretic perspectives on U.S.-China relations since 1945. An assessment of competing explanations for the rise and fall of the Sino-Soviet alliance, the emergence of the U.S.-China-Soviet strategic triangle, and the rise of China as a major power in the post-Cold War world. (E3)

PS 4400 Honors Seminar in International and Comparative Politics (3)

Open to advanced political science majors. Concentration on in-depth analyses of particular problems or issues in international and comparative politics. (E3)
(See comment on political science honors courses.) Students who wish to take this course should have a GPA of at least 3.0.

PS 4410 Seminar in International Politics (3)

Analyses of particular problems and issues in international and comparative politics including the role of international institutions. Prior departmental arrangements for course admission is required because assignments may extend beyond the normal semester period. May be taken more than once for credit with departmental permission. (SP)
Prerequisite: permission of instructor. Writing Emphasis Course

PS 4420 Seminar in African Politics (3)

Survey and analysis of the political, social, and economic issues of post-independence Africa, including the patterns of cooperation that characterize intra-Africa diplomacy and Africa's relations with nation-states outside of the continent. Students will participate in the Howard University National Model Organization of African Union Conference held at Washington, D. C. As topics vary, the course may be taken more than once for credit with departmental permission. (SO)
Prerequisites: 12 credits in political science and/or permission of instructor.

POLITICAL BEHAVIOR AND METHODOLOGY COURSES

PS 3500 Political Behavior (3)

The empirical study of American politics, with emphasis on public opinion and support building through the mass media. Student research will be expected. (E3)
Prerequisite: six credits in Political Science or permission of instructor.

PS 3510 Conflict Resolution and the Polity (3)

A theoretical and behavioral approach to conflict resolution in the polity [political community]. Macro and micro systems of conflict resolution and their impact on one another will be examined. Specifically, students will review and simulate techniques employed to resolve complex problems ranging from local conflict over urban development to international negotiation on protecting national and transnational interests. (E3)
Prerequisites: six credits in Political Science or permission of instructor.

PS 3550 Scope and Methods of Political Science (3)

Focuses on what political scientists do, what their main concerns are and provides a methodological foundation for reading, understanding and criticizing the literature of political science. (E3)
Prerequisites: six credits in Political Science or permission of instructor.

URBAN POLITICS COURSES

PS 3700 The Urban Political System: Politics and Problems (3)

The analysis of the urban political system and its relation to other community systems, with emphasis on function and dysfunction. (E3)
Prerequisite: six credits in Political Science or permission of instructor.

PS 4700 The Politics of Urbanization in Postindustrial America: Contemporary Issues (3)

In-depth analysis of emerging political structures and processes of postindustrial American cities; emphasis on identifying and evaluating policy constraints and local popular control consequences for central cities in the hierarchically-ordered structure of a federal system; the impact of political and fiscal fragmentation on developing a national urban policy alternative. Several analytic perspectives are used in discussion and debate of political issues unique to the contemporary central city. (E3)

Prerequisites: Nine hours of political science, including PS 2100, or permission of instructor.

INTERNSHIP COURSES

PS 4800 Cooperative Education in Political Science (9)

PS 4801 Seminar for Cooperative Education Students in Political Science (6)

Opportunity for students to obtain practical, long-term experience in supervised governmental or public interest organization work linked to related academic seminars. Student works approximately four-and one-half days each week for approximately a full semester or the equivalent and participates in regular meetings of a related academic seminar. Financial remuneration as arranged. Six of the involved credits will count as major elective credits in political science and the remaining nine credits will count as free electives. (If a student is in a major other than political science, all 15 credits will count as free electives. However, the student's department may accept some of these credits as meeting major requirements.) No more than 40 credits in political science, including credits earned through this course, count toward the minimum requirements for graduation. PS 4800 and 4801 are taken concurrently. Students receiving credit for PS 4800 and 4801 may not also receive credit for PS 4802 and 4803. (E3)

Prerequisites: Junior status and permission of departmental selection board.

PS 4802 Cooperative Education in Political Science II (6)

PS 4803 Seminar for Cooperative Education Students in Political Science II (3)

Opportunity for students to obtain practical, long-term experience in supervised governmental or public interest organization work linked to related academic seminars. Student works approximately four-and one-half days each week for approximately eight weeks or the equivalent and participates in regular meetings of a related academic seminar. Financial remuneration as arranged. Three credits count as major elective credits in political science and the remaining six credits count as free electives. (If a student is in a major other than political science, all nine credits count as free electives. However, the student's department may accept some of these credits as meeting major requirements.) No more than 40 credits in political science, including credits earned through this course, count toward the minimum requirements for graduation. PS 4802 and 4803 are taken concurrently. Students receiving credit for PS 4802 and 4803 may not also receive credit for PS 4800 and 4801. (E3)

Prerequisites: Junior status and permission of departmental selection board.

PS 4810 Internship in Political Science I (3)

Career-related placement of one or two days per week in political, governmental or public interest areas, providing students with the opportunity to gain practical, on-the-job reinforcement of academic experiences. Assignments and placements are arranged by the department. Weekly seminars and/or tutorials serve to integrate and test concepts learned in the classroom with field experiences. (E)

Prerequisites: Junior status, nine hours in political science, including PS 2100, and permission of instructor.

Writing Emphasis Course

PS 4811 Internship in Political Science II (3)

Continuation of PS 4810. (E)

Prerequisites: PS 4810 and permission of instructor.
Writing Emphasis Course

INDEPENDENT STUDY COURSE

PS 4990 Independent Study: Tutorial Course for Political Science Majors (3)

A tutorial course for political science majors whose individual needs are not met by formal courses. Periodic meetings. Substantial research and reading is required. (E)

Prerequisites: Twelve hours of political science; open only to political science majors who have made prior arrangements with a faculty member.

Sociology

The Sociology major prepares students for undertaking graduate work in sociology, as well as entry level positions in education, business, government, public service, social research, teaching and social justice. It offers opportunities to learn about interpersonal behavior as well as the systemic functioning of groups, organizations, social institutions, and society. In a rapidly changing world, sociology remains important in addressing the challenges of society and the need for deeper understanding of the place of the individual in society. Students will be exposed to applied skills relevant to social research, social justice, and practical application of sociological theory and substantive sociological content. In addition, students interested in specific careers are invited to focus their sociology electives within concentrated areas of study. Student advisement plays an important part in enhancing the academic experience, and students are urged to consult with departmental advisors about courses, curriculum, and areas of academic and professional interest. Our department also offers a unique Master's degree Program in Sociology and Social Justice, which is open to qualified graduates.

*Sociology is also a content area for Early Childhood Education only.

For more information about College of HSS programs, please see:
<http://www.kean.edu/academics/college-humanities-and-social-sciences>

B.A. SOCIOLOGY

GENERAL EDUCATION 48-52

FOUNDATIONS REQUIREMENTS² 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition⁵ 3

MATH 1000, 1010, 1016 or 1030 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2023 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

(Choose two of the following from different areas)

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages² 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

*SOC 1000 Introduction to Sociology⁵ 3
 (One course from any one area below)

Anthropology 3

Psychology 3

Economics or Geography 3

Political Science 3

Interdisciplinary 3

Science & Mathematics 10-12

Math or CPS 3

(Two courses from areas below; one must be a lab science)

Biology 3, 4

Chemistry or Physics 3, 4

Astronomy, Geology, or Meteorology 3, 4

Interdisciplinary 3, 4

Health and Physical Education 2-3

ID 1225 Issues Contemporary in Health 3

OR

Physical Education 2

MAJOR/GE CAPSTONE

SOC 4600 Senior Seminar (W-E)^{2, 5} 3

MAJOR REQUIREMENTS⁵ 30

REQUIRED COURSES 15

SOC 2000 Introduction to Social Justice 3

SOC 2050 Social Statistics 3

SOC 2052 Methods of Social Research 3

SOC 3050 Development of Sociological Theory 3

SOC 3052 Qualitative Methods 3

MAJOR ELECTIVES 15

Five Sociology courses; at least three must be on the 3000-4000 level.

ADDITIONAL REQUIREMENTS 6 S.H. (ADDED TO 9/09 GUIDE SHEET)

(Any two courses in the Social Sciences with advisement and chairperson approval.) 6

FREE ELECTIVES 38-45

Selected with advisement. At least 50% must be at 3000 level or above.

TOTAL 124

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

² See prerequisites and equivalencies for General Education requirements

³ Additional 3 credit course paired with Reading may be required by placement testing

⁴ Not required of students with second majors, minors or collaterals

⁵ All major courses, including the capstone course, require a grade of C or better. ENG 1030 also requires a grade of C or better.

* Required distribution course

MINOR IN SOCIOLOGY

Six courses (18 s.h.) in Sociology: Sociology 1000; two courses on the 2000 level and three courses on the 3000 and 4000 level.

SOCIOLOGY COURSES

INTRODUCTORY

SOC 1000 Introduction to Sociology (3)

The study of social life, society, and the individual within a global and multicultural context. (E) (SSI)

SOC 1001 Introduction to Sociology: Honors Course (3)

The study of social life, society, and the individual within a global and multicultural context. An introduction to the theories, research, and methods of sociology. May be substituted for SOC 1000 as a prerequisite.

Prerequisites: In top 25% of entering students on SAT verbal scores, or sophomore standing or above with 3.0 overall grade point average.

SOC 2500 Introduction to Global Studies (3)

Earth viewed in terms of its major natural and social systems; attention to global problems, related values and possible courses of action; case studies of problems related to "sustainable development" such as global warming and environmental justice.

Prerequisites: One course in one of Sociology, Anthropology, Economics, History, Political Science or Psychology

THEORY AND RESEARCH METHODS

SOC 2050 Social Statistics (3)

Introduction to statistical techniques most frequently used in social research. Emphasis on statistics as a tool for presentation of information and decision-making process. (E)

Prerequisites: SOC 1000 or permission of department chairperson.

SOC 2052 Methods of Social Research (3)

Exposure to scientific paradigms, research designs, methods and analysis used in social sciences research. Development of critical thought and consideration of ethical and political issues in the practice of social research. Emphasis on writing skills through the development of a research proposal. (E)

Prerequisite: SOC 1000.

SOC 3050 Development of Sociological Theory (3)

A critical survey of the major theoretical viewpoints in nineteenth and early twentieth century sociological thought. (E)

Prerequisite: Six hours of sociology or permission of department chairperson.

SOC 3052 Qualitative Methods in Social Research (3)

An introduction to the qualitative aspects of research with emphasis on the theory and practice of the techniques of content analysis, participant observation and interviewing. (E)

Prerequisites: SOC 1000.

SOC 3060 Society and Self (3)
Analysis of the influence of social factors on the nature of self-attitudes. Beliefs and values. Review of theory and research on the nature of the socialization process. (E)
Prerequisite: SOC 1000.

SOC 3420 Environment and Society (3)
An analysis of environmental problems as a social phenomenon. Understanding the impact of social institutions, values, policies and movements on creating and resolving environmental problems. (E)
Prerequisites: SOC 1000 or permission of instructor.

SOC 4051 Contemporary Sociological Theory (3)
An investigation of various theoretical frameworks utilized by sociologists in viewing societies, social institutions and social interaction. An analysis of the major work of a number of modern and post-modern sociological theorists. *Prerequisite:* SOC 1000 or permission of department chairperson.

SOC 4052 Evaluation Research (3)
An introduction to the direct application of research methods to the evaluation of any purposive change plan; a social program, an advertising campaign, job training.
Prerequisites: SOC 2050 and 2052 or permission of department chairperson.

SOC 4054, 4055 Advanced Research Seminar I, II (3,3)
Direct involvement in the methodological and statistical techniques needed to collect and analyze "real-life" quantitative data. Large scale data analysis techniques. Experience in preparing data results for application to ongoing policy processes.
Prerequisites: SOC 2050 and 2052 or their equivalent and permission of department chairperson. CPS 1931 is recommended. SOC 4054 is prerequisite for SOC 4055.

SOC 4060 Personal and Social Interaction (3)
Face-to-face interaction, how the individual relates to others at work, in friendships, and in intimate relationships.
Prerequisite: SOC 1000 or permission of department chairperson.

SOC 4070 Special Topics in Sociology: Honors Seminar I (3)
Intensive study and exploration of a content area and/or research technique in which the instructor has special expertise and students have particular interest. Topics will vary.
Prerequisites: Minimum 9 Sociology credits with a 3.3 overall grade point average, or permission of instructor.

SOC 4071 Special Topics in Sociology: Honors Seminar II (3)
Intensive study and exploration of a content area and/or research technique in which the instructor has special expertise and students have particular interest. Topics will vary.
Prerequisites: Minimum 9 Sociology credits with a 3.3 overall grade point average, or permission of instructor.

SOC 4090 Independent Study (3)
An opportunity for the senior sociology student to develop and carry out an individual project subject to the permission of an advisor and the department chairperson. Meetings arranged by the student and advisor. (E)

SOC 4095 Internship in Sociology (3)
Application of sociological concepts to community settings. Combines work in a field placement and a weekly seminar to assist in integrating field experience with sociological theory. Career development activities included in seminar.
Prerequisite: Junior or Senior Sociology major or minor; SOC 2052 Methods of Social Research; approved petition required.

SOC 4600 Senior Seminar in Sociology (3)
Collaborative course dealing with major empirical and theoretical accomplishments in Sociology. Each seminar is focused on a theme and requires student research projects demonstrating integration of advanced sociological and general knowledge and skills. (E)
Prerequisites: Major in Sociology and senior status. Writing Emphasis Course

INSTITUTIONS & ORGANIZATIONS

SOC 2100 Sociology of the Family (3)
Study of families in contemporary society. Examination of the impact of globalizing forces upon family life, family as a gendered experience, and variations in families by race, ethnicity, social class, and sexual orientation. (E) (SSI)
Prerequisite: SOC 1000.

SOC 3110 Sociology of Education (3)
Education as a social institution and an organizational complex. The relationship between educational objectives and cultural values, manifest and latent functions of education. (E)
Prerequisite: SOC 1000.

SOC 3150 Urban Sociology (3)
Analysis of the process of urbanization, urban settlement patterns, social structure, and life styles. Consideration of the particular problems posed by the urban settings. (SP)
Prerequisite: SOC 1000.

SOC 3151 The Community (3)
An analysis of human communities studied in relationship to the global processes of industrialization and urbanization. Review of the theories and research on various types of communities with a focus on changing bases for the construction of community and inter-community relationships. (FA)
Prerequisite: SOC 1000.

SOC 3263 Sociological Analysis of Social Media (3)
A sociological examination of communication technologies in contemporary society. (E3)

SOC 3404 Society and Computer Culture (3)
Sociological investigation of relationships among computers, culture, and society. Social effects of the computer as an example of technological expansion within societies. The social bases for computer development. Familiarity with computers helpful.
Prerequisite: SOC 1000 or permission of department chairperson

SOC 4100 Sociology of Religion (3)
A comparative and analytical treatment of religion as a social institution. The relation of religion to family, government, economy and other structures. Religion considered as an agent of change and stability in society. (FA)
Prerequisite: SOC 1000.

SOC 4110 Political Sociology (3)
A review and analysis of theory and research on the nature and distribution of power in society. A study of the social variables and processes determining stability and change in the political institution. (SP)
Prerequisite: SOC 1000.

SOC 4120 The American Dream: Democracy and Capitalism (3)
The American Dream as a set of strongly held values, beliefs, and attitudes embodying the aspirations of people. Competing approaches on ways to achieve the American Dream including economic democracy. The future of the American Dream in a global context.
Prerequisites: Six hours taken from two of the following: Sociology, Political Science, or Economics or the permission of the instructor.

SOC 4150 Sociology of Death (3)
Examination of the social aspects of death and dying. An analysis of cultural factors involved in death-related behavior through the use of a cross-societal perspective. Discussion of mutual relationships between an individual's death and social systems.
Prerequisite: SOC 1000 or permission of department chairperson.

SOC 4300 Sociology of Health Care (3)
An examination of the influence of social and cultural phenomena on sickness and health. Analysis of the organization of medical care and medical institutions. (FA)
Prerequisite: SOC 1000 or permission of department chairperson.

SOC 3200 Work and Careers: A Sociological Approach (3)
The world of work in modern industrial society examined and analyzed in terms of management theory, human relations and occupations. (SP)
Prerequisite: SOC 1000 or permission of department chairperson.

SOC 4200 The Sociology of Organizational Life (3)
A survey of theory and research on complex or formal organizations. Major emphasis on the bureaucratic model and special adaptations.
Prerequisite: SOC 1000 or permission of instructor.

SOCIAL DIFFERENTIATION

SOC 2300 American Ethnic and Racial Groups (3)
Social relations, experiences, and cultures of ethnic and racial groups in American society. Comparisons with other societies. (E)
Prerequisite: SOC 1000.

- SOC 2305 Hispanic Americans in Contemporary Society (3)**
An intensive investigation of Hispanic ethnic groups in modern United States society, with attention focused on the dynamics of migration and settlement, enduring sociocultural patterns, and the processes and problems of inclusion and assimilation.
Prerequisite: SOC 1000.
- SOC 2308 The Female World: Fairy Tale and Fact (3)**
Women as members of a society; how their life chances are influenced by how societies define women and how these societies act toward women. Emphasis on society in the United States.
Prerequisite: SOC 1000.
- SOC 3061 China: A Sociological Approach (3)**
General overview of contemporary Chinese society from a sociological perspective. (E3)
- SOC 3170 Japanese Challenge: Lessons for America (3)**
A comparative study of Japanese society: the family, community, workplace, politics, and government. An evaluation of the claim that Japan is "number one" in crucial areas challenging America today such as worker productivity, crime control, quality and equality in education and industrial policy.
Prerequisite: SOC 1000.
- SOC 3350 Social Inequality in America (3)**
An analysis of wealth, power, and prestige in America. Comparisons with other societies. (E)
Prerequisite: SOC 1000.
- SOC 3360 Population (3)**
Analysis of fertility, mortality and migration processes in the United States and globally. Investigation of the social, economic and cultural determinants and consequences of population change. Exploration of contemporary social issues utilizing a demographic perspective.
Prerequisite: SOC 1000 or permission of instructor.
- SOC 3370 Sociology of the American Jewish Community (3)**
Sociological analysis of the American Jewish community; historical evolution of the community; social structure and religious movements; Jewish demography and politics; patterns of Jewish identification; anti-Semitism and Jewish reactions; future trends in the American Jewish community.
Prerequisite: SOC 1000 or permission of department chairperson.
- SOC 4301 Gender and Society (3)**
An analysis of the social and cultural determinants of sexual behavior. Examination of the social roles of men and women and the possible influence of sex differences on the organization of society. (E)
Prerequisite: SOC 1000.
- SOC 4350 Sociology of Aging (3)**
Aging as a social process at the individual and the societal level. The demography of age strata, strata boundaries and age-related experience in American society.
Prerequisite: SOC 1000.

SOCIAL DYNAMICS AND SOCIAL DEVIATION

- SOC 2710 Crime and Delinquency (3)**
An analysis of crime and delinquency as social phenomena. The relationship of crime and delinquency to various social institutions such as the economy, the family, the law. (E)
Prerequisite: SOC 1000.
Equivalent to CJ 2610: Students will not receive credit for both SOC 2710 and CJ 2610.
- SOC 3400 Collective Behavior (3)**
A review of concepts about human interaction in unstructured situations as in a panic, craze, a riot. The role of rumor, propaganda and public opinion in such phenomena. Studies in depth of selected contemporary examples.
Prerequisite: SOC 1000.
- SOC 3410 Social Movements (3)**
An examination of sociological and social psychological theories of the origins and career patterns of social movements. Study in depth of selected examples. (SP)
Prerequisite: SOC 1000.
- SOC 4401 Social Change (3)**
An investigation of various theoretical frameworks utilized in describing and explaining social change. Analyses of case studies of change in modern societies.
Prerequisite: SOC 1000 or permission of instructor.
- SOC 4450 Sociology of Extreme Situations (3)**
A sociological analysis of extreme situations. Emphasis on the mass murder and death camp experiences of Jews during World War II; comparisons with other extreme situations such as trench warfare, the bombing of Hiroshima and its aftermath, institutionalization in asylums and prisons, and mass suicide. Social problems of survivors and their families.
Prerequisite: SOC 1000.
- SOC 4700 Sociology of Deviance (3)**
Analysis of deviant behavior as a general characteristic of social systems. Critical review of various sociological theories concerning the nature and functions of deviance. (E)
Prerequisite: SOC 1000.

SOCIAL JUSTICE

- SOC 2000 Introduction to Social Justice (3)**
A sociological examination of social justice focusing on selected case studies at the local, national, and global levels. The study of the meaning of social justice, the manifestations and sociological explanations of injustice, and strategies for achieving a more just social world. (E)
Prerequisite: SOC 1000.
- SOC 4000 Seminar in Social Justice (3)**
Collaborative course dealing with major ongoing challenges as well as accomplishments in the areas of social justice at local, national, and global levels. Seminar will address empirical, theoretical, and applied work in sociological approaches to the area of social justice. Requires a seminar research project that uses conceptual skills in the design and conduct of the research.
Prerequisites: SOC 2000, Major in Sociology, and Junior or Senior Status.

Graduate (5000-level) courses in Sociology are also available for qualified undergraduate students with permission of the Sociology Program Coordinator. For graduate course options and course descriptions, please see the Kean University Graduate Catalog.

ANTHROPOLOGY COURSES

- ANTH 1800 Cultural Anthropology (3)**
Examination of the structures and functions of culture systems globally and over time, employing theories, methods and concepts of anthropology. Analysis based on cross-cultural and comparative perspectives. (E)
- ANTH 1900 Introduction to Archaeology (3)**
An introductory survey of contemporary archaeological concepts, methods and theories, and techniques used for understanding human cultural development. (FO)
- ANTH 2801 Introduction to Afro-American Culture I (3)**
A cultural exploration of Afro-American music, art, literature from their African roots to their diverse expressions.
- ANTH 2802 Introduction to African American Studies (3)**
An examination of the Black experience in the United States from slavery to the present from the perspective of the social sciences and using the Afrocentric model. (FA)
Prerequisite: ANTH 2801 or permission of instructor.
- ANTH 2805 Films of the African World Experience (3)**
A survey of the images of people of African descent in film designed to explore the contrast between the Afrocentric vs. the Eurocentric perspective. Attention will be given to works depicting various types of movie-myth Blacks from Sambo to Super Spade, but will emphasize the films of Africana world filmmakers.
- ANTH 2810 Physical Anthropology (3)**
A systematic examination of theories of human evolution; an investigation into genetic processes and the physiological basis for racial origins and variations. A consideration of natural and cultural selection, ethnology and eugenics.
- ANTH 2820 Urban Anthropology (3)**
An analysis of the city as a cultural setting using anthropological methods including ethnographic field work.
Prerequisite: ANTH 1800 or permission of instructor.
- ANTH 3200 Survey of American Folklore (3)**
An introduction to the discipline with emphasis on the genre of American folklore, which includes examples from oral and customary folklore and material culture.
Prerequisite: ANTH 1800 or permission of instructor.

ANTH 3750 Ancient Egyptian Culture (3)

An anthropological examination of ancient Egyptian culture from pre-dynastic times to the end of the New Kingdom. A systematic study of the cultural evolution of Egyptian philosophy, worldview, technology, plastic industry, religion, writing system and its impact on African and world civilization. (FA)

Prerequisite: ANTH 1800 or permission of the instructor.

ANTH 3820 Dynamics in Tribal and Peasant Economic Life (3)

Anthropological perspective on the dynamics of tribal and peasant economies.

Prerequisites: SOC 1000, ANTH 1800 or ECO 1020 or 1021.

ANTH 3830 Anthropology of North American Indian Cultures (3)

Study of North American Indian cultures 35,000 B.C.-1800 A.D. concluding with the disruptive effect of European settlements on these cultures.

Prerequisite: ANTH 1800 or permission of department chairperson.

ANTH 3850 Ancient Egyptian Hieroglyphs (3)

Introductory course in the Egyptian hieroglyphic writing system, its evolution, and its cultural significance. An intensive anthropological study of the transmission of culture through the hieroglyphic writing of Egypt. Major emphasis placed on the deciphering and interpreting of hieroglyphics. (SP)

Prerequisite: ANTH 1800 or permission of the instructor.

ANTH 4770 African Diaspora TravelLearn Course (3)

A two-three week educational tour of a designated African Diaspora culture (e.g., various parts of the African Continent, the Caribbean, or North and South America) with emphasis upon learning through supervised on-site experience at historical monuments, museums and cultural institutions. Formal instruction, required readings, films, lectures and group study will focus upon the sciences, fine arts and eco-socio-political organization of the people and places visited. Destinations and travel costs will vary (e.g., Egypt, Brazil, Jamaica, Sea Islands, etc.)

Prerequisite: Permission of instructor

College of HSS Interdisciplinary Minors

AFRICANA STUDIES MINOR

Director: Dr. James Conyers,
Hutchinson Hall J-103T,
(908) 737-4054

This minor program is open to all students interested in an interdisciplinary approach to the experiences of African peoples throughout the world. New courses are being developed which will focus an Afro-centric perspective upon the economies, history, culture, education, politics, philosophies, aspirations and achievements of peoples of African descent in Africa, the Americas, the Caribbean and elsewhere.

The program can be taken in conjuncture with a major academic curriculum, and interested students should contact The Office of Africana Studies, J-302, telephone (908) 737-3915 for advisement.

TOTAL	18
Core Requirements	9
SOC 1000 Intro to Sociology	3
ANTH 2801 Afro-American Culture I	3
HIST 3305 History of the Black American to 1900	3
or HIST 3306 20th Century Black History	3
Electives	9

Three courses selected from list below with at least one course at the 3000/4000 level:

AH 3730 Art of Ancient Egypt	3
AH 3780 Art in Africa	3
AH 3781 African-American Art	3
ANTH 1800 Cultural Anthropology	3
ANTH 1900 Intro to Archaeology	3
ANTH 2805 Films of the African World Experience	3
ANTH 3750 Ancient Egyptian Culture	3
ANTH 3850 Egyptian Hieroglyphs	3
ANTH 4770 African Diaspora: Travellearn Course	3
ECO 2900 Economics of Poverty	3
ECO 3320 Economics of Crime and Punishment	3
ECO 3900 Economics of Discrimination	3
ENG 3200 African-American Literature	3
ENG 3700 African-American Women Writers	3
ENG 3725 Ethnic American Literature	3
ENG 4301 Contemporary Caribbean Women Writers	3
HIST 2303 U.S. History to 1877	3
HIST 2304 U.S. History from 1877	3
HIST 2381 Colonial Latin America	3
HIST 2382 Modern Latin America	3
HIST 2500 African History to 1885	3
HIST 2510 African History since 1885	3
HIST 3305 History of the Black American to 1900	3
HIST 3306 20th Century Black History	3

HIST 3381 History of Cuba	3
HIST 3382 History of Mexico and Central America	3
HIST 3383 History of the Caribbean and Central America	3
HIST 4368 The Civil War and Reconstruction	3
HIST 4384 History of Brazil	3
HIST 4850 Freedom: Black and Jewish Perspectives	3
PS 3160 Ethnic Politics in the U.S.	3
PS 2300 Introduction to Comparative Politics	3
PS 3340 Latin American Politics	3
PS 3341 Central American Politics	3
PS 3360 Southern African Politics	3
PS 4420 Seminar in African Politics	3
PSY 2630 Psychological Perspectives on Prejudice and Racism	3
REL 3708 Black Theology and Liberation Movements	3
REL 3709 Liberation Theology	3
SOC 2000 Intro to Social Justice	3
SOC 2300 American Ethnic and Racial Groups	3
SOC 2710 Crime and Delinquency	3
SOC 3350 Social Inequality in America	3
SOC 4100 Sociology of Religion	3
SOC 4401 Social Change	3

ASIAN STUDIES MINOR

Director: Dr. Xurong Kong
Townsend Hall, T-107C
(908) 737-0257

REQUIREMENTS 18

FOUNDATION COURSES 6

AS 2000 Intro to Asian Studies	3
AS 3451 Images of Asians & Asian Americans	3

PROGRAM RELATED ELECTIVE COURSES 12

Select 12 credits from list of approved courses below; at least 2 of the courses must be at the 3000-4000 level:

AS 2110 Survey of Chinese Culture	
AS 2260 Asian Theatre	
AS 3116 Intro to Chinese Civilization	
AS 3211 Chinese Literature in Translation I	
AS 3212 Chinese Literature in Translation II	
AS 3215 Chinese Literature across Media	
AS 3231 Indian Bhakti Poetry	
AS 3233 Indian Cinema	
AS 3416 Chinese Popular Culture & Films	
AS 4991 Internship	
AS 4999 Independent Study	
AH 3750 The Arts of China	

AH 3751 The Arts of Japan	
AH 3720 The Arts of India	
COMM 3613 International Comparative Media	
COMM 3623 International News	
ENG 3205 Literature of the East	
ENG 3365 Post-Colonial Literature	
ENG 3725 Ethnic American Literature	
ENG 3750 Writers of the Asian Diaspora	
HIST 2471 History of East Asian Civilization	
HIST 2472 Modernization of China and Japan	
HIST 3400 Diplomatic History of the Far East in the 19th & 20th Centuries	
HIST 3410 China in the 20th Century	
HIST 4410 The Rise of Modern Japan, 1600-1970	
HIST 4430 Genocide in Asian History	
HIST 4842 The Asian Woman	
ID 4100 China During the Age of Confucius	
PHIL 2203 Philosophies of Asia	
PS 3320 Politics of the Middle East	
PS 3330 Far Eastern Politics	
PS 3430 International Terrorism	
PS 3450 Conduct of US Foreign Policy	
PS 3455 Chinese Foreign Policy	
PS 3470 The Politics of International Economic Relations	
PS 3490 US-China Relations	
REL 2700 Eastern Religions	
SOC 3061 China: Sociological Approach	

CHINESE STUDIES MINOR

Director: Dr. Xurong Kong
Townsend Hall, T-107C
(908) 737-0257

TOTAL 18

LANGUAGE COURSES (6 S.H.)

SELECT 2 FROM THE FOLLOWING:

CHIN 2101 Intermediate Chinese I	3
CHIN 2102 Intermediate Chinese II	3
CHIN 3101 Advanced Chinese I	3
CHIN 3102 Advanced Chinese II	3
CHIN 3110 Business Chinese	3

CHINESE LITERATURE AND CULTURE COURSES (9 S.H.)

SELECT 3 FROM THE FOLLOWING:

AS 3116 (FL3216) Introduction to Chinese Civilization	3
AS 3211 (FL3550) Chinese Literature in Translation I	3
AS 3212 (FL3551) Chinese Literature in Translation II	3
AS 3416 (FL3556) Chinese Popular Culture and Films	3

BREADTH/COGNATE REQUIREMENTS (3 S.H.)

SELECT 1 FROM THE FOLLOWING:

HIST	3410	China in the 20th Century	3
AH	3750	Art of China	3

JEWISH STUDIES AND WORLD AFFAIRS MINOR

Director: Dr. Dennis Klein

Townsend Hall T-117F

(908) 737-0256

As the only program of its kind, Kean's Jewish Studies and World Affairs program provides a unique advantage to students who want to further their understanding of Jewish traditions and cultures. The program's innovative emphasis on creative Jewish interactions with other cultures additionally offers a solid basis of comparison with other cultures and peoples.

Among the program's attractions for the 150-200 students who enroll in Jewish Studies courses each semester are:

- An inventory of 26 courses: 8 to 10 courses offered each semester
- 27 distinguished Jewish Studies affiliate faculty representing 13 disciplines;
- Support for students in internships, careers, community service, service learning and study abroad programs.

TOTAL 18

REQUIRED COURSES 9

Three courses, selected from the following:

ENG	3723	American Jewish Novelist and the Modern World	3
HEBR	1101	Elementary Hebrew I	3
HEBR	1102	Elementary Hebrew II	3
HIST	3620	Modern Israel and Modern Nations	3
HIST	3860	Jewish History to 1789	3
HIST	3861	Modern Jewish History	3
HIST	3862	Modern Jewish History (1 credit service learning component)	1
HIST	3863	American Jewish History	3
HIST	4850	Freedom: Black and Jewish Perspectives	3
PS	3418	Arab-Israel Conflict	3
REL	2702	Western Religions: Judaism, Islam, Christianity	3
REL	3706	Major Trends in Jewish Philosophy in the 19th and 20th Centuries	3
SOC	3370	Sociology of the American Jewish Community	3

ELECTIVES 9

Three courses—at least two in any one concentration shown below — selected from the following:

Community Relations

PSY	2630	Psychological Perspectives on Prejudice and Racism	3
PSY	3630	Social Psychology	3

SOC	2300	American Ethnic and Racial Groups	3
<i>Education Strategies</i>			
EDUC	3400	Language Arts/Reading in the Preschool and Elementary Curriculum	3
EDUC	3401	Language Arts/Reading in K-12 Subject Area Teaching	3

Holocaust Studies

ENG	3380	Literature of the Holocaust	3
HIST	3244	Nazi Era Germany	3
HIST	4238	History of Germany, 1805-Present	3

World Perspectives

*AH	3760	Medieval Art and Culture	
*AH	3771	Byzantine Art and Culture	
MUS	4105	Music History II: History of Western Art Music	3
REL	4700	Issues in Modern Religion	3
SOC	4450	Sociology of Extreme Situations	3

*Courses open to undergraduates with instructor's permission

LATIN AMERICAN STUDIES MINOR

Coordinator: Dr. Nazih Richani,

Hutchinson Hall J-103L,

(908) 737-4097

TOTAL 21

REQUIRED COURSES 9

LANGUAGE PROFICIENCY¹ 6

SPAN	1101 -1102	or	6
SPAN	2101 -2102	or	6
SPAN	3101 -3105		6

FOUNDATION COURSE 3

Choose one course from:

HIST	2381	History of Latin America to 1825	3
HIST	2382	History of Latin America: 1825 to Present	3

SPAN	3225	Latin American Civilization I ²	3
SPAN	3230	Latin American Civilization II ²	3

ELECTIVES 12

Choose 4 courses from at least 3 of the following categories:

Economics and Geography

ECO	3100	Economic Development	3
ECO	3400	International Economics	3

History and Art History

AH	3795	Pre-Columbian Arts of Central America	3
AH	3796	Modern Latin American Art & Architecture	3
HIST	2381	History of Latin America to 1825	3

HIST	2382	History of Latin America: 1825 to Present ³	3
HIST	3381	History of Cuba	3
HIST	3383	History of the Caribbean and Central America	3

Literature

SPAN	3220	Colonial Spanish-American Literature ²	3
SPAN	3240	Development of Puerto Rican Culture ²	3
SPAN	3250	Survey of Latin American Literature I ²	3
SPAN	3255	Survey of Latin American Literature II ²	3
SPAN	4415	The Spanish-American Novel ²	3
SPAN	4420	Twentieth Century Spanish-American Poetry ²	3
SPAN	4600	Modernism ²	3
ENG	4301	Contemporary Caribbean Women Writers in English and English Translation	3

Social Sciences

PS	3310	Comparative Politics Non-Western	3
PS	3340	Latin American Politics	3
PS	3341	Central American Politics	3
PS	3480	Political Economy of Violence	3
SOC	2300	American Ethnic and Racial Groups	3

¹ Language proficiency courses for native Spanish speakers may be substituted with advisement of faculty advisor to the minor.

² Courses with SPAN prefix are taught in Spanish.

³ HIST 2381 and HIST 2382 cannot be applied toward both required foundation and electives.

WOMEN'S STUDIES MINOR

Coordinator, Dr. Emily K. Filardo

Hutchinson Hall, J-330P, (908) 737-4020 and

Hutchinson Hall, J-334B

The Women's Studies Program offers students an interdisciplinary approach to the study of women and of gender issues. Courses reflect new scholarship on women's lives, their contribution to literature, art and society, their changing roles, and the diversity of their experiences as shaped by issues of gender, race, class, and ethnicity.

Most of the courses are cross-listed in other disciplines such as Art History, English, Communication, Criminal Justice, English, Health and Physical Education, History, Philosophy, Psychology, Public Administration, and Sociology. As such, almost all of the Women's Studies courses also count toward the fulfillment of other minor, major, and general education requirements. This allows students to concurrently pursue both their major degree and the interdisciplinary Minor in Women's Studies.

TOTAL	21
Required Course	3
ID 1300 Introduction to Women's Studies	3

The required Introduction to Women's Studies class *may be taken at any time, but taking it early in the sequence is strongly advised.* This class must be completed at Kean University. A comparable course taken at another institution may be accepted as an alternative only with permission of the Women's Studies Coordinator

ELECTIVES 18

Take 3 Women's Studies-approved classes, one from each of any three different departments/disciplines/programs, totaling 9 credits.

And take 3 Women's Studies-approved classes from any departments/disciplines/programs, totaling 9 credits.

Half of the 18 credits of electives must be completed at Kean University.

Only courses in which a student has earned a grade of C or better will count towards the Women's Studies Minor.

In addition to the courses listed below, other courses may count towards the Women's Studies Minor, with the approval of the Women's Studies Minor coordinator.

ART HISTORY

AH 3725 Women in the Visual Arts 3

COMMUNICATION

COMM 3630 Gender, Language & Communications 3

CRIMINAL JUSTICE

CJ 3500 Diversity & Criminal Justice 3

ENGLISH

ENG 3200 African-American Literature Survey 3

ENG 3205 Literature of the East 3

ENG 3232 Special Topics in Women and Literature 3

ENG 3260 African Literature Survey 3

ENG 3700 African-American Women Writers 3

ENG 3716 British Women Writers: A Critical Perspective 3

ENG 3725 Multi-Ethnic Literature of the U.S. 3

ENG 4301 Contemporary Caribbean Women Writers 3

ENG 4350 Contemporary Literature 3

ENG 4414 Jane Austen 3

ENG 4419 Edith Wharton 3

ENG 4462 Emily Dickinson 3

HEALTH & PHYSICAL EDUCATION

HED 3160 Health Perspectives for Women 3

HED 3400 Human Sexuality 3

HED 3460 Women's Global Health and Human Rights 3

PED 1062 Self Defense for Women 3

PED 4830 Women in Sports 3

HISTORY

HIST 3335 Women in Western Civilization 3

HIST 3336 Women in the Modern Age 3

HIST 3843 Sex in History 3

HIST 3845 Witchcraft in the Western Tradition 3

HIST 4840 Women in History 3

HIST 4842 The Asian Woman 3

ID 4010 Field Experience in Women's Studies* 4

*Permission of instructor and of Women's Studies Minor coordinator Required.

PHILOSOPHY

PHIL 2301 Feminist Philosophies 3

PHIL 3310 Justice and Human Rights 3

PSYCHOLOGY

PSY 2630 Psychological Perspectives on Prejudice & Racism 3

PSY 2640 Marriage & Family Relationships 3

PSY 3200 Cross-Cultural Psychology 3

PSY 3340 Psychology of Women 3

PSY 3341-SL Psychology of Women Service Learning* 1

*Permission of instructor and of Women's Studies Minor coordinator Required.

PUBLIC ADMINISTRATION

PA 3411 Current Issues in Public Administration/Women in Public Administration* 3

*By advisement only

SOCIOLOGY

SOC 2000 Introduction to Social Justice 3

SOC 2100 Sociology of the Family 3

SOC 2308 The Female World: Fairy Tale and Fact 3

SOC 3061 China: A Sociological Approach 3

SOC 3240 Environment and Society 3

SOC 4301 Gender and Society 3

College of Natural, Applied and Health Sciences

The mission of the College of Natural, Applied and Health Sciences is consistent with the overall mission of the University. The College of NAHS has strong, quality program offerings in the sciences and health professions. In our college you will find a wide variety of majors being offered. The School of Natural Sciences (SONS) offers BA and BS programs in Biology and BA and BS programs in Chemistry, while the School of Environmental and Sustainability Sciences (SESS) offers BS programs in Environmental Biology, Earth Sciences (and BA programs in Earth Science), and Sustainability Science. The College of NAHS also offers BS programs in Computer Science, as well as BA programs in Mathematical Sciences. The faculty and staff are committed to providing relevant education and services to a diverse student population. Our goal is to prepare students to think critically and creatively so that they can adapt to changing social, economic and technological conditions as well as to changes in the evolving health care industry. Building external collaborations with major technological corporations and the health care industry is an integral part of the college's outreach mission, which enables it to provide valuable services to the community as well as increased opportunities for students.

Our graduates can be found working in industry, teaching in schools, and practicing in hospitals and other health care agencies across New Jersey. Our programs in the Sciences have a long distinguished record of service to this region. Whether you are looking to study in the Natural and Physical Sciences, Health Care, Mathematics, Computer Science or Information Technology, you will gain a strong foundation at the College of Natural, Applied and Health Sciences.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

Dean, Dr. George Chang

Acting Associate Dean, Dr. Brian Teasdale

Assistant to the Dean, Ms. Mayda Martinez

B-104, (908) 373-3600

ACADEMIC DEGREES, PROGRAMS

- B.A. in Biology
 - General Option
 - Teacher Certification (P-12) Option
 - Teacher of Students with Disabilities (P-12) Option
- B.S. in Biology
 - Environmental Biology Option
 - Cell and Molecular Biology Option
 - Health Professions Option
- B.A. in Chemistry
 - General Option
 - Preprofessional Option
 - Teacher Certification (P-12) Option
- B.S. in Chemistry
 - ACS Certified Chemical Instrumentation Option
 - ACS Certified Expanded Option

- B.S. in Computer Science
 - (ABET Accredited [Union campus only])
- B.S. in Computer Science
 - Information Systems Option
- B.S. in Information Technology
- B.A. in Earth Science
 - General Option
 - Teacher Certification (P-12) Option
 - Teacher of Students with Disabilities (P-12) Option
- B.S. in Earth Science
 - Geo-Science Option
 - Environmental Science Option
- B.A. in Mathematical Sciences
 - General Option
 - Statistics Option
 - Data Analytics Option
 - Teacher Certification (P-12) Option
 - Teacher of Students with Disabilities (P-12) Option
- B.S. in Sustainability Science

HEALTH PROFESSIONS

- B.S. in Medical Technology
 - General Option
 - Cytotechnology Option
 - Histotechnology Option
- B.S.N. in Nursing

JOINT (OR COMBINED) PROGRAMS

- B.S. Computer Science/M.S. Computer Information Systems (with Kean University Nathan Weiss Graduate College)
- B.S. in Health Information Management (with Rutgers University)
- B.S. in Clinical Laboratory Science: Medical Laboratory Science (with Rutgers University)
- B.S. in Clinical Laboratory Science: Cytotechnology (with Rutgers University)
- B.A. Biology/M.S. Physician Assistant (with Rutgers University)

MINOR PROGRAMS

- Biology
- Chemistry
- Computer Science
- Information Technology
- Mathematical Science
- Physics
- Statistics
- Sustainability

SCHOOLS, DEPARTMENTS, FACULTY

School of Natural Sciences

Faculty: Bennett, Castiglione, Davis, Field, Gao (Physics Coordinator), James (Health Sciences Coordinator), Konecny, LaFleur, Lorentzen, Manheim, Mongelli (Chemistry Coordinator), Porta, Pu, Reilly, Shin, Shumskaya, Stokes-Huby, Spaccarotella (Biology Coordinator),

Szalkiewicz, Teasdale (Executive Director and Acting Associate Dean), Vassiliou, Yu, Zarrilli
Wenzhou-Kean: Lock, Meng, Michelen, Wong

School of Environmental and Sustainability Sciences

Faculty: Codella, Croft, Ha (Earth Science Coordinator), Heyniger, Mu, Nasse, Ngoy, Qi (Executive Director), Shebitz (Environmental Biology and Sustainability Coordinator), Smith, Zois

Computer Science

Faculty: Emanouilidis, Franke, Huang, Li, Liou, Morreale (Chair), Stewart-Gardiner, Wabara

Wenzhou-Kean: Miller, Tang, Winoto, Zamani, Zhang

School of Mathematics

Faculty: Affouf, Arnow, Avirappattu, Beaugris, (Executive Director), Fung, Hahn, Oshima, Narasimhan, Sahafian, Tse, Viglione, Wang, Woubneh, Zafra

Wenzhou-Kean: Inouye, Lim, Peng, Olson

Health Information Management

Liaison to Rutgers University: James

Medical Technology

Coordinator: James

School of Nursing

Faculty: Anuforo, De Witt, Fitzsimons, Johnson, Kaminsky, Neville, Reinbeck, Sicurella, Valas (Executive Director)

Physician Assistant

Advisor: Field

COURSE SCHEDULING FREQUENCIES

At the end of the course description is a code in parenthesis that indicates the frequency the course is offered to assist students in planning their registration.

Key:

- E = Every Semester
- FA = Every Fall
- SP = Every Spring
- FE = Fall, Even Years
- SE = Spring, Even Years
- FO = Fall, Odd Years
- SO = Spring Odd Years
- E3 = Every Third Semester
- WS = Every Winter Session
- SSI = Every Summer Session I
- SSII = Every Summer Session II
- SSIE = Summer Session I, Even Years
- SSIO = Summer Session I, Odd Years
- SSII = Summer Session II, Even Years
- SSIO = Summer Session II, Odd Years

School of Natural Sciences (SONS)

Executive Director and Acting Associate Dean,
Dr. Brian Teasdale

C-124 (908) 737-3654

The School of Natural Sciences (SONS) has a goal of preparing students to think critically and creatively and to experience an explicit understanding of physical, chemical, and biological processes. Our programs prepare students to adapt to changing social, economic and technological conditions as well as changes in the health care industry. Our external collaborations with K-12 schools, major technological and environmental corporations and the health care community provide valuable services to the community and important opportunities for our students. The School of Natural Sciences includes both resident and Kean/Ocean faculty of Biology, Chemistry, and Physics. We provide training and experiences within 13 resident programs; six joint programs in the Health-Related professions; and three programs at Kean/Ocean. The School offers programs in areas from Biological Sciences, Chemistry/Physics and the Pre health-related professions. Our graduates can be found working in industry, teaching in K-12 schools, practicing in healthcare facilities, or furthering their education at postgraduate levels.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/~sons/>

Biology

Program Coordinator, Dr. Kim Spaccarotella
C-138, (908) 737-3742

The Biological Sciences Program offers a B.A. degree with three options, and a B.S. Biology Degree with a Cell & Molecular Option and a Health Professions Option. A Minor in Biology is also available. The B.A. Biology Major must obtain a 2.5 grade point average (GPA) to be admitted into the Major and to graduate. The B.S. Biology Cell & Molecular option has a 3.0 GPA requirement, and the B.S. Biology Health Professions option has a 2.5 GPA requirement. All Teacher Certification programs require a minimum 3.0 GPA.

The B.A. options are traditional liberal arts degrees that prepare students for teaching in elementary or secondary schools and for life science positions in industry or government. Additionally, there is a B.A. track leading to graduate study as a Physician Assistant.

The B.S. Biology Cell & Molecular option is a degree program in the biological sciences focused on students looking to pursue advanced graduate or professional degrees within the areas of biotechnology, molecular biology, biomedical research, microbiology, medicine, etc. The choice of whether to pursue a B.A. or B.S. in Biology should be done in consultation with a faculty advisor.

The B.S. Biology Health Professions Option offers science courses required for a Bachelor of Science in Biology. Students choose courses within a select specialization in Physical Therapy, Occupational Therapy or Physician

Assistant, depending on their profession of interest. Such graduate programs have a unique set of admission requirements.

Course requirements include General Biology, Anatomy, Physiology, Chemistry, Physics, Psychology and Statistics as well as undergraduate volunteer work or internship experience. The proposed option includes the courses and guidance to reach such expectations.

The B.S. Biology Health Professions Option students must have a minimum cumulative GPA of 2.5 at time of application for acceptance as declared major. To remain in this program, students must uphold a minimum cumulative GPA of 2.5 as well.

Each student majoring in Biology should consult with his/her program advisor to select the appropriate degree option, and major electives for his or her respective interests and goals.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/~sons/biology.html>

B.A. DEGREE BIOLOGY

OPTION: GENERAL

GENERAL EDUCATION 47-48

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1054 Precalculus 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2024 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 34-35

Humanities 9

*ENG 2403 World Literature 3

Select two courses from different areas:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

Select two courses from different areas:

Economics or Geography 3

Political Science 3

Psychology 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 11

*MATH 1016 Statistics 3

CHEM 1083 Chemistry I 4

CHEM 1084 Chemistry II 4

Health/Physical Education 2-3

ID 1225 Issues Contemp. Health

OR

ID 1010 Leisure & Rec Multicult Soc 3

OR

Physical Education 2

MAJOR/GE CAPSTONE 3

BIO 4970 Seminar in Integrative Biology 3

*Required Distribution Course

ADDITIONAL REQUIREMENTS 25

CHEM 2581 Organic Chemistry Lecture I 3

CHEM 2582 Organic Chemistry Lecture II 3

CHEM 2583 Organic Chemistry Lab I 2

CHEM 2584 Organic Chemistry Lab II 2

MATH 2415 Calculus I 4

ENV 1000 Introduction to Environ Sci 3

PHYS 2091 General Physics I 4

PHYS 2092 General Physics II 4

MAJOR REQUIREMENTS 31

REQUIRED COURSES IN BIOLOGY 24

BIO 1300 General Biology I 4

BIO 1400 General Biology II 4

BIO 2500 Principles of Botany 4

BIO 3400 Zoology: Form and Function 4

BIO 3614 Principles of Ecology 4

BIO 3709 Genetics 4

MAJOR ELECTIVES 8

Selected with departmental advisement at the 3000-4000 level.

FREE ELECTIVES 19-20

At least 50% must be at 3000-4000 level.

TOTAL 124

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

B.A. DEGREE BIOLOGY

OPTION: TEACHER CERTIFICATION

Students choosing this (P-12) option must make a formal application for admission to the Middle and Secondary Education (MSE) Department. Prior to taking education courses, all prerequisites must be met. See the description under the College of Education.

GENERAL EDUCATION AND ADDITIONAL LIBERAL ARTS REQUIREMENTS 72

GENERAL EDUCATION 48

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG	1030	College Composition	3
MATH	1000	College Algebra	3
COMM	1402	Speech Communication as Critical Citizenship	3
GE	2024	Research and Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 35

<i>Humanities</i>			9
*ENG	2403	World Literature	3
Select two courses from different areas:			
Fine Arts or Art History			3
Philosophy or Religion			3
Foreign Languages			3
Music or Theatre			3
Interdisciplinary			3
<i>Social Sciences</i>			9
*HIST	1062	Worlds of History	3
PSY	1000	General Psychology	3
SOC	1000	Introduction to Sociology	3

OR

ANTH	1800	Cultural Anthropology	3
<i>Science & Mathematics</i>			11
*MATH	1054	Precalculus	3
CHEM	1083	Chemistry I	4
CHEM	1084	Chemistry II	4
<i>Health/Physical Education</i>			3
ID	1225	Issues Contemp. Health	3

MAJOR/GE CAPSTONE 3

BIO	4970	Seminar in Integrative Biology	3
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*Required Distribution Course

ADDITIONAL REQUIREMENTS 25

MATH	2415	Calculus I	4
PHYS	2091	General Physics I	4
PHYS	2092	General Physics II	4
CHEM	2180	Prin. Organic Chemistry	4
PSY	2110	Psych. Adolescence	3
ES	1000	Observing the Earth	3
ID	2955	Disabled Person in American Society	3

MAJOR REQUIREMENTS 32

REQUIRED COURSES IN BIOLOGY 24

BIO	1300	General Biology I	4
BIO	1400	General Biology II	4
BIO	2500	Prin. of Botany	4
BIO	3400	Zoology: Form and Function	4
BIO	3614	Principles of Ecology	4
BIO	3709	Genetics	4

MAJOR ELECTIVES 8

Selected with departmental advisement at the 3000-4000 level.

PROFESSIONAL EDUCATION 30

Sophomore Level			
EMSE	2801	Intro Field Exp K-12	3
Junior Level			

EDUC	3000	Curriculum, Evaluation and Learner	3
EDUC	3401	Language Arts/Reading K-12	3
EMSE	3122	Computers in Education	3
EMSE	3230	Science Education K-12	3
EMSE	3801	Junior Field Experience K-12	2
EMSE	3903	Eng Language Learning in America	1

Senior Level

EMSE	4811	Professional Intern/Subj Area K-12	9
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PROFESSIONAL/GE CAPSTONE

EDUC	4000	Teacher and Classroom	3
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TOTAL 133

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

B.A. DEGREE BIOLOGY

OPTION: DUAL CERTIFICATION FOR TEACHER OF STUDENTS WITH DISABILITIES AND P-12 BIOLOGY

Students who wish to be certified in both Biology P-12 and Educator of Students with Disabilities should consult the Catalogue under Special Education programs for information on admissions and grade requirements for this dual certification program. Students choosing this option must make a formal application for admission to the Department of Special Education. Prior to taking Special Education courses, all prerequisites must be met.

GENERAL EDUCATION AND ADDITIONAL LIBERAL ARTS REQUIREMENTS 68

GENERAL EDUCATION

FOUNDATIONS REQUIREMENTS 13

GE	1000	Transition to Kean ¹	1
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OR

GE	3000	Transfer Transitions ¹	1
ENG	1030	College Composition	3
MATH	1000	College Algebra	3
COMM	1402	Speech Communication as Critical Citizenship	3
GE	2024	Research and Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 32

<i>Humanities</i>			9
*ENG	2403	World Literature	3
Select two courses from different areas:			
Fine Arts or Art History			3
Philosophy or Religion			3
Music or Theatre			3
<i>Social Sciences</i>			9
*HIST	1062	Worlds of History	3

PSY	1000	General Psychology	3
SOC	1000	Introduction to Sociology	3
OR			
ANTH	1800	Cultural Anthropology	3
<i>Science & Mathematics</i>			11
*MATH	1054	Precalculus	3
CHEM	1083	Chemistry I	4
CHEM	1084	Chemistry II	4
<i>Health/Physical Education</i>			3
ID	1225	Issues Contemp. Health	3
*Required Distribution Course			

ADDITIONAL REQUIREMENTS 23

PSY	2110	Psychology of Adolescence	3
PHYS	2091	General Physics I	4
PHYS	2092	General Physics II	4
ES	1000	Observing the Earth	3
ID	2052	Human Exceptionality	3
ID	3051	Computer Technology in Today's Inclusive Society	3
ID	3163	Building Inclusive Environments Through Positive Behavioral Supports	3

ACADEMIC MAJOR: 32 S.H. (OR MORE)

A minimum of 32 credits as a Bio Science major as outlined in the Kean University catalog. See Academic Advisor in that department for requirements. Note - No Major Capstone course required. All major courses require a grade of C or better.

REQUIRED COURSES:

BIO	1300	General Biology I	4
BIO	1400	General Biology II	4
BIO	2500	Prin. of Botany	4
BIO	3400	Zoology: Form and Function	4
BIO	3614	Principles of Ecology	4
BIO	3709	Genetics	4

MAJOR ELECTIVES 8

Selected with departmental advisement at the 3000-4000 level.

PROFESSIONAL EDUCATION 32

Sophomore Level			
SPED	2120	Introductory Field Experience in Special Education	3
SPED	2200	The Multicultural Learner in Diverse Settings	3
Junior Level			
EDUC	3000	Curriculum, Evaluation and Learner	3
SPED	3000	Principles and Practices for the Contemporary Educator (WE)	3
SPED	3001	Preprofessional Field Experience for Educators Across Settings	2
EMSE	3230	Science Education K-12	3
EDUC	3401	Language Arts/Reading, K-123	
Senior Level			
EDUC	4000	Teacher and Classroom	3
SPED	4135	Special Education Student Teaching	9

(SPED 4135 & EDUC 4000 must be taken concurrently)

TOTAL 132

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

B.S. DEGREE BIOLOGY

OPTION: CELL AND MOLECULAR BIOLOGY

GENERAL EDUCATION 35

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1054 Precalculus 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2024 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 19

Humanities 6

*ENG 2403 World Literature 3

Select one course from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 6

*HIST 1602 Worlds of History 3

Select one course from below:

Economics or Geography 3

Political Science 3

Psychology 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 7

*MATH 1016 Statistics 3

CHEM 1083 Chemistry I 4

MAJOR/GE CAPSTONE 3

BIO 4970 Seminar in Integrative Biology 3

**Required Distribution Course*

ADDITIONAL REQUIREMENTS 26

CHEM 1084 Chemistry II 4

CHEM 2581 Organic Chemistry Lecture I 3

CHEM 2582 Organic Chemistry Lecture II 3

CHEM 2583 Organic Chemistry Lab I 2

CHEM 2584 Organic Chemistry Lab II 2

MATH 2415 Calculus I 4

PHYS 2091 General Physics I 4

PHYS 2092 General Physics II 4

MAJOR REQUIREMENTS 51-52

REQUIRED COURSES IN BIOLOGY 24

BIO 1300 General Biology I 4

BIO 1400 General Biology II 4

BIO 3305 Microbiology 4

BIO 3709 Genetics 4

BIO 4105 Essentials of Biochem 4

BIO 4315 Immunology 4

MAJOR ELECTIVES 27-28

(Selected from courses below with advise-ment)

BIO 2500 Principles of Botany 4

BIO 3260 Histology 4

BIO 3400 Principles of Zoology 4

BIO 3403 Anatomy and Physiology I 4

BIO 3404 Anatomy and Physiology II 4

BIO 3406 Neuroscience 4

BIO 3420 Parasitology 4

BIO 3614 Principles of Ecology 4

BIO 3820 Basic Tissue Culture 4

BIO 4225 Cell Physiology 4

BIO 4310 Virology 4

BIO 4325 Applied Microbiology 4

BIO 4395-8 Coop Education 1-4

BIO 4700 Molecular Genetics 4

BIO 4704 Molec. Biology of Genes 3

BIO 4911-4 Special Topics BIO 1-4

BIO 4961-3 Independent Research 1-3

FREE ELECTIVES 11-12

At least 50% must be at the 3000-4000 level.

TOTAL 124

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

B.S DEGREE BIOLOGY

OPTION: HEALTH PROFESSIONS

GENERAL EDUCATION AND ADDITIONAL LIBERAL ARTS REQUIREMENTS 35

GENERAL EDUCATION 13

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1054 Pre-Calculus 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2024 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 19

Humanities 6

*ENG 2403 World Literature 3

GE- Approved Humanities Course 3

Social Sciences 6

HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

Science & Mathematics 7

MATH 1016 Statistics (Bio Section) 3

CHEM 1083 General Chemistry 4

MAJOR/GE CAPSTONE 3

BIO 4970 Seminar in Integrative Biology 3

ADDITIONAL REQUIRED COURSES 22

CHEM 1084 General Chemistry II 4

CHEM 2581 Organic Chemistry Lecture I 3

CHEM 2583 Organic Chemistry Lab I 2

CHEM 2582 Organic Chemistry Lecture II 3

CHEM 2584 Organic Chemistry Lab II 2

PHYS 2091 General Physics I 4

MATH 2415 Calculus I 4

ACADEMIC MAJOR COURSES

MAJOR REQUIRED COURSES 40

BIO 1300 General Biology I 4

BIO 1400 General Biology II 4

BIO 3305 Microbiology 4

BIO 3403 Anatomy and Physiology I 4

BIO 3404 Anatomy and Physiology II 4

BIO 3406 Neuroscience 4

BIO 3450 Biological Aspects of Aging 3

BIO 3709 Principles of Genetics 4

BIO 4315 Immunology 4

BIO 3317 Infectious Pathogens 2

BIO 4397 Cooperative Education in Biology 3

REQUIRED COURSES - SPECIAL OPTIONS

PHYSICIAN ASSISTANT CONCENTRATION COURSES 17

BIO 3400 Zoology 4

BIO 4105 Essentials of Biochemistry 4

BIO 3100 Medical Terminology 3

HED 3600 Nutrition or BIO 3200 3

PED 3515 Wellness 3

PHYSICAL THERAPY CONCENTRATION COURSES 16

PED 3505 Kinesiology 3

PED 3510 Physiology of Exercise 3

HED 3600 Nutrition or BIO 3200 3

PHYS 2092 General Physics II 4

PSY 3540 Abn Psych or PSY 3110 Lifespan Dev Psy 3

OCCUPATIONAL THERAPY CONCENTRATION COURSES			15
PSY	3200	Psychological Statistics	3
PSY	3540	Abnormal Psychology	3
PSY	3110	Life-span Developmental Psychology	3
ANTH	1800	Cult Anthropology	3
OR			
SOC	1000	Intro to Sociology	
OT	2400	Introduction to Occupational Therapy	3

**FREE ELECTIVES
(50% AT 3000-4000 LEVEL)** **6-8**

TOTAL **120**

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

MINOR IN BIOLOGY

One semester of general chemistry and the following:

REQUIRED COURSES			8
BIO	1300	General Biology I	4
BIO	1400	General Biology II	4

ELECTIVES **10**

Ten credits in biology, including at least 7 credits at the 3000-4000 level, selected with approval of a departmental advisor.

BIOLOGY COURSES

GENERAL

BIO 1000 Principles of Biology (4)
An introduction to the structure and function of living cells and organisms and their interdependencies and adaptations to the environment. This course is not required for Biology majors. (3 hr. lec./3 hr. lab.) (E)
Prerequisites: Completion of all GELAP foundations courses in Math, English and Communication Sciences. *Approved General Education Distribution Course.*

BIO 1200 Biology & Society (3)
Explores the impact of biological discoveries and their applications on individuals and society. Includes ethical and practical ramifications. May not be used for major credits toward graduation by biology majors. Satisfies the general education disciplinary/interdisciplinary science requirement. (FO)
Prerequisites: COMM 1402 and GE 2020 or GE 2021 or GE 2022 or GE 2023 or GE 2024)

BIO 3000 Marine Biology (4)
The interrelations of marine plants and animals with their environment. Topics include: primary production, symbiosis, predation, energy flow, and zonation. Effects of salinity, temperature, light, dissolved oxygen, tides and wave action studied. One weekend field trip required. (3 hr. lec./3 hr. lab.) Equivalent given summers at N.J. Marine Sciences Consortium field stations. (SE)
Prerequisites: CHEM 1084 or equivalent; eight credits in biology or permission of instructor.

BIO 3100 Medical Terminology (3)
Medical Terminology is a comprehensive method to the study of medical words that pertain to body systems, anatomy, physiology, pathophysiology, medical diagnosis and procedures. Medical terms is a specialized language that is used internationally by the health care professionals for the purpose of communicating medical data in a precise and accurate manner. This course is designed to give students an in-depth knowledge of medical words, word building, definitions and word use that is utilized in all areas of medical science. The course will aid in the basic understanding of health care pre professional courses. (E)

BIO 3200 Biology of Food in Health and Disease (3)
An introduction to the biology of food and its role in health and disease prevention, management and treatment, including a survey of basic food items, preparation techniques that affect nutrient quality and healthfulness and current research in nutritional sciences.
Prerequisites: BIO 1000 or BIO 1300 and GE 2024 or permission of the instructor

BIOCHEMISTRY

BIO 4105 Essentials of Biochemistry (4)
An introduction to the chemistry of biologically important compounds and their relationship to the metabolic activity of living cells. Laboratory activities will utilize the methods and techniques currently used in biochemical research. (3 hr. lec./3hr. lab.) (E)
Prerequisites: One semester of Organic Chemistry, BIO 1400, or permission of instructor. *Writing Emphasis Course.*

CELLULAR

BIO 1300 General Biology I: Cell Biology(4)
An introduction to the fundamental concepts of biological organization, with emphasis on the molecular and cellular levels. Emphasis on scientific methods, the integration of structure and function at the cellular level, and on the underlying biochemistry. This course, in combination with BIO 1400, forms the foundation for Biology majors and for students following the Science Core (3hr.LEC/3 hr.Lab). This course is not a General Education Lab course. (E)
Pre-requisite: Math 1000 or placement. *Corequisite:* Math 1054
Replaces BIO 2200
Equivalents: BIO 2200, BIOS 2201, SELS 2201

BIO 2200 Cell Biology (4)
An introduction to the fundamental concepts of biological organization, with emphasis on the molecular and cellular levels. Emphasis is placed on scientific methods, the integration of structure and function at the cellular level, and on the underlying biochemistry. This course, in combination with BIO 2400, forms the foundation for the biology major. (3 hr. lec./3 hr. lab.)
Co-requisite: CHEM 1083
Replaced by BIO 1300
Equivalents: BIO 1300, BIOS 2201, SELS 2201

BIO 3260 Introduction to Histology (4)
A laboratory oriented course dealing with the microscopic and ultrastructural anatomy of mammalian tissues and organs, with emphasis on relating structure to function. (3 hr. lec./3 hr. lab.)
Prerequisites: 12 credits in biology including BIO 1300 and BIO 1400, or permission of instructor.

BIO 4225 Cell Physiology (4)
Biochemical and electron micrographic studies of mammalian tissue subcellular organization by separation and analysis of cell molecules and organelles, and determination of their structure and function. (3 hr. lec/3 hr.lab.) (SP)
Prerequisites: CHEM 2582 Organic Chemistry Lecture II, CHEM 2584 Organic Chemistry Lab II, GPA 2.5 or higher.

MICROBIOLOGY

BIO 2305 Medical Microbiology (4)
This course provides learning opportunities in the basic principles of medical microbiology and infectious disease. It covers mechanisms of infectious disease transmission, principles of aseptic practice, and the role of the human body's normal micro flora. The biology of bacterial, viral, fungal and parasitic pathogens and the diseases they cause are covered. The course provides the conceptual basis for understanding pathogenic microorganisms and the mechanisms by which they cause disease in the human body.
Prerequisites: BIO 1000

BIO 3305 Principles of Microbiology (4)
A study of microorganisms with emphasis on bacteria. Morphology, physiology and metabolism, ecology, taxonomy and methods of culture and identification of some common microorganisms. (3 hr. lec./3 hr. lab.) (E)
Prerequisite: BIO 1400 or permission of instructor.

BIO 3317 Infectious Pathogens (2)
An introduction to pathogens (viral, bacterial, parasitic and fungal), their biological properties, pathogenicity and mode of transmission.
Prerequisites: CHEM 2583, BIO 3305

BIO 4310 Virology (4)
Study of the isolation, propagation, and characteristics of viruses, and the techniques for achieving those goals. Consideration also given to the interaction of viruses with prokaryotic and eukaryotic cells, the origin and evolution of viruses, and the emergence of new viruses.
Prerequisites: BIO 1400, BIO 3305 and CHEM 2180, and permission of instructor.

BIO 4315 Immunology (4)
A fundamental study of the innate and adaptive immune systems of animals. Consideration also given to immunologic responses of plants. (3 hr. lec./3 hr. lab.) (E)
Prerequisites: BIO 1400 and BIO 3305, one semester of Organic Chemistry or Biochemistry, and permission of the instructor.

BIO 4325 Applied Microbiology (4)
A study of the importance of microorganisms in food production and preservation, industry, pathogenesis and disease prevention, and public health. (3 hr. lec./3 hr. lab.) (FE)
Prerequisite: BIO 3305 or permission of instructor.

ORGANISMS-ANIMALS

BIO 1400 General Biology II: Evolution, Biodiversity and Ecology (4)
An introduction to the biology of organisms, including a survey of kingdoms, behavior, evolution, and ecology. This course, in combination with BIO 1300, forms the foundation for Biology majors and for students following the Science Core. (3hr.lec/3hr.lab)
This course is not a General Education Lab course. (E)
Pre-requisite: BIO 1300
Corequisite: Chem 1083
Replaces BIO2400
Equivalents: BIO 2400, BIOS 2202, SELS 2202

BIO 2400 Genes, Organisms, Populations (4)
An introduction to fundamental concepts of biological organization, with emphasis on genetic, organismal and population levels. Emphasis is placed on hierarchical organization, the integration of structure and function, and evolution as unifying principles of biology. This course builds on BIO 2200 to form a foundation for the biology major. (3 hr. lec./3 hr. lab.) (E)
Prerequisites: BIO 2200, CHEM 1083, Math 1054, and GE 202X or permission of instructor.
Replaced by BIO 1400
Equivalents: BIO 1400, BIOS 2202, SELS 2202

BIO 2402 Human Physiology and Anatomy (4)
A study of the physiology of body processes and related anatomical and histological studies. Topics include biochemical, cellular and histological units and the structures and functions of the body's integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. Provides background for students in special education, health information management, recreation therapy and physical education. (3 hr. lec./3 hr. lab.) (E)
Credit not given for both BIO 2402 and BIO 2409.
Prerequisite: BIO 1000 or permission of instructor.
Approved General Education Distribution Course

BIO 2403 Human Anatomy and Physiology I (4)
This course is an integrated understanding of human anatomical structures and their functions. BIO 2403 is the study of the organization of the human body, introduction to basic chemistry, the cellular and tissue levels of organization, the integumentary system, skeletal system and articulations, muscular system and the nervous system. Lectures are synchronized with laboratory exercises and include clinical applications of such systems geared toward students interested in the health professions. (3 hr. lec./3 hr. lab.) (E)
This course is not for Biology majors. Credit cannot be given for BIO 2403 and any of the following: BIO 2402, BIO 2409 or BIO 3403.
Prerequisite: BIO 1000 or BIO 1300

BIO 2404 Human Anatomy and Physiology II (4)
This course is an integrated understanding of human anatomical structures and their functions. Bio 2404 is a continuation of Bio 2403 and includes the study of the endocrine system, cardiovascular system, lymphatic system, respiratory system, urinary system and reproductive system. Laboratories are synchronized with lecture materials and include exercises using models, microscopic slides, and animal specimens. Participation in the lab involves individual hands-on exercises and team work/group discussion. Additional lab study time and group study is also important. Lectures are synchronized with laboratory exercises and include clinical applications of such systems geared toward students interested in the health professions. (3 hr. lec./3 hr. lab.) (E)
This course is not for Biology majors. Credit cannot be given for BIO 2404 and any of the following: BIO 2402, BIO 2409 or BIO 3404.
Prerequisites: BIO 1000 or BIO 1300 and BIO 2403

BIO 3060 Biology and Ecology of Birds (4)
This course will emphasize the biological uniqueness of birds and the behavioral, physiological and ecological relationships of birds to their environment. Laboratories will emphasize field skills and the identification of New Jersey birds. (3 hr. lec./3 hr. lab.) (E)
Prerequisites: BIO 3400

BIO 3400 Zoology: Form and Function (4)
The evolution of invertebrates and vertebrates using principles of comparative anatomy and physiology. Morphological and functional changes will be correlated with varied environments and adaptations that gave rise to a diversity of life forms. (3 hr. lec./3 hr. lab.) (E)
Prerequisites: BIO 1400, CHEM 1084, GE 2024

BIO 3403-3404 Anatomy and Physiology I and II (4,4)
An integrated understanding of the structures (both gross and microscopic) and the functions of various body systems. Laboratories are synchronized with lecture materials and include exercises using prosected models and other specimens. BIO 3403 is the study of the organization of the human body, introductory chemistry, cells, tissues, the integumentary system, skeletal systems and articulations, muscular system and the nervous system. (3 hr. lec./3 hr. lab.)
BIO 3404 is a continuation of BIO 3403 and includes the study of the endocrine system, cardiovascular system, the lymphatic system, the respiratory system, the digestive system, the urinary system and the reproductive system. (3 hr. lec./3 hr. lab.)
Credit not given for both BIO 2402/ BIO 2409 and BIO 3403-3404. (E)
Prerequisites: BIO 1400 and CHEM 2180 or CHEM 2581 or permission of instructor.
BIO 3403 prerequisite for BIO 3404.

BIO 3405 Basic Gross Anatomy (4)
An in-depth study of gross and functional anatomy utilizing skeletons and models that depict the skeletal, muscular, vascular and nervous systems. A general overview and regional study of the viscera. Open to Occupational Therapy majors and students in the Athletic Training Option Programs. Not open to Biology majors, except by permission of the instructor. (3 hr. lec./3 hr. lab.) (FA)
Prerequisite: BIO 2402 or BIO 2409 or permission of instructor. Credit will not be given for both BIO 3405 and BIO 3403-3404.

BIO 3406 Neuroscience (4)
Morphology and physiology of the nervous systems specifying function and related clinical conditions. (3 hr. lec./3 hr. lab.) (E)
Prerequisite: BIO 3404 or BIO 3405 or equivalent, or permission of instructor.

BIO 3420 Parasitology (4)
Introduction to animal parasites and parasitism; emphasis on morphology, distribution, life cycles and effects on host of protozoan, helminth and arthropod parasites. (3 hr. lec./3 hr. lab.)
Prerequisite: BIO 1300 or permission of instructor.

BIO 3433-3434 Anatomy and Physiology I and II (Honors) (4,4)
Designed for preprofessional students in biology and medical technology. These Honors courses integrate gross and microscopic structure of the human body systems with their function at a more intensive level than BIO 3403-3404. Laboratories are synchronized with lecture-discussion materials and include studies with microscopic and macroscopic materials, prosected models, animal specimens and computer simulations.
BIO 3433 starts with introductory topics on biochemical, cellular and histological units and covers the integumentary, skeletal, muscular and nervous systems.
BIO 3434 starts with a review of the autonomic nervous system and covers the endocrine system, the cardiovascular system, the lymphatic system, the respiratory system, the digestive system, the urinary system and the reproductive system.
Students can take BIO 3433-3434 or BIO 3403-3404 or a mixture of the two to satisfy a one-year Anatomy and Physiology course requirement. Credit not given to both 3403 and 3433, or both

3404 and 3434, or both BIO 2402/2409 and BIO 3433-3434.

Prerequisites: BIO 1400 and CHEM 1084 or CHEM 2581 or permission of the instructor. BIO 3433 or BIO 3403 prerequisite for BIO 3434. Open to all biology majors; students should consult their advisors and consider their performance in prerequisite and related courses before registering.

BIO 3435 Animal Behavior (4)
An introduction to the concepts, techniques, and history of animal behavior with emphasis on the ecological and evolutionary levels of organization. Lectures stress the methods by which biologists test evolutionary hypotheses. Laboratory involves individual and group research projects. (3 hr. lec./3 hr. lab.)
Prerequisite: BIO 1400 or permission of instructor.

BIO 3450 Biological Aspects of Aging (3)
A study of the biology of aging from biochemical, cellular, and physiological viewpoints. Emphasis on age-associated functional and structural changes of the organ systems. (E)
Prerequisite: BIO 1300 or BIO 2200 or permission of instructor.

BIO 4455 Developmental Biology (4)
A study of developmental processes in animals combining descriptive, theoretical and experimental approaches. Includes study of cell determination and pattern formation. (3 hr. lec./3 hr. lab.)
Prerequisites: BIO 3709 or BIO 4105 or permission of instructor.

ORGANISMS-PLANTS

BIO 2500 Principles of Botany (4)
Structure, function, development, reproduction, and evolution of plants. (3 hr. lec./3 hr. lab.) (E)
Prerequisite: BIO 1300 or BIO 2200 or equivalent or permission of instructor.

BIO 3513 Morphology and Evolution of the Plant Kingdom (4)
A study of the structural, reproductive, and evolutionary aspects of the plant kingdom. (3 hr. lec./3 hr. lab.)
Prerequisite: BIO 2500 or permission of instructor.

BIO 3535 Field Botany (3)
Principles of field identification of local flora with emphasis on use and construction of keys. Two all day Saturday field trips. (Kean Ocean)
Prerequisite: BIO 2500 or BIO 2601 or permission of instructor.

BIO 4575 Plant Physiology (4)
A study of physiological mechanisms involved in the germination, growth, development and reproduction of green plants, including water relations, carbohydrate metabolism, translocation, photosynthesis, mineral nutrition, growth regulators, and growth and development. (3 hr. lec./3 hr. lab.)
Prerequisites: BIO 1400 or BIO 2400 and BIO 2500.

ECOLOGY

BIO 2601, 2602 Environment, Ecology and Humanity (4/3)
A course for non-science majors briefly describing basic global ecological principles. Emphasis on disruptive effects on the environment. Pollution, pesticides, endangered species and human population pressures. This course may be taken with laboratory for 4 s.h. or without laboratory for 3 s.h. Biology majors may not receive credit for this course.
Prerequisite: BIO 1000 or permission of instructor.

BIO 3050 Field Biology: Marine Systems (4)
Field-based course that provides the opportunity to collect biological data in a marine ecosystem while applying current field research methods. Emphasis will be on observation, species, identification, field notes, sampling methods, observational and experimental study design, mapping, data analysis and scientific writing
Prerequisites: Four credit lab course in the natural sciences and permission of the instructor

BIO 3051 Field Biology: Terrestrial Systems (4)
Field-based course that provides the opportunity to collect biological data in a terrestrial ecosystem while applying current field research methods. Emphasis will be on observation, species, identification, field notes, sampling methods, observational and experimental study design, mapping, data analysis, and scientific writing. This course is a major elective for Biology Majors.
Prerequisites: BIO 1400 and GE 2024 or permission of instructor.

BIO 3614 Principles of Ecology (4)
Factors affecting the distribution and abundance of organisms. Basic ecology is examined at the organismal, population and ecosystem levels. Human impact on the environment. (3 hr. lec./3 hr. lab.) (E)
Prerequisite: BIO 1300 or permission of instructor.
Writing Emphasis Course

BIO 4615 Applied Ecology (4)
Examination of environmental problems, solutions and management dealt with by biologists in government and industry. Wildlife management, conservation biology and industrial ecology. Student must provide own transportation for some labs. (3 hr. lec./3 hr. lab.) (SP)
Prerequisite: BIO 3614 or equivalent.

GENETICS

BIO 3709 Genetics (4)
A study of the essential concepts, principles and applications of all branches of genetics, including transmission, molecular and population genetics. Discussion of recent developments in the field, focusing on genomics and new genetic techniques. Examinations of principles and application of genetics by means of laboratory exercises. (3 hours lecture, 3 hours lab.) (E)
Prerequisites: BIO 1400 or permission of instructor.

BIO 4700 Molecular Genetics (4)
Molecular biology of the gene with an emphasis on current topics related to recombinant DNA and genetic engineering. Laboratory activities include methods and instrumentation used in recombinant DNA studies. (3 hr. lec. /3 hr. lab.) (E)
Prerequisites: BIO 3709 and BIO 4105 or permission of the instructor.

BIO 4704 Molecular Biology of Genes (3)
Molecular biology of genetic inheritance and molecular evolutionary genetics, with an emphasis on recent advances. Topics include DNA and chromatin structure and function, regulation of gene expression and related processes, mutation, gene duplication, patterns of genetic divergence and genealogical reconstruction. (3 hr. lec.) (SE)
Prerequisites: BIO 3709 and one semester of Organic Chemistry, or permission of the instructor.
TECHNIQUES

BIO 3815 Microtechniques (4)
Experience in the preparation of biological material for microscopic examination; fixing, embedding, sectioning, mounting, staining; preparation of whole mounts of small specimens. (Two 3 hr. lec./lab. periods: many procedures require the student's presence at times in addition to scheduled class hours.)
Prerequisites: One of the following: BIO 1400, 2402, 2409, 3403 or 3433, CHEM 1032 or 1084; or permission of instructor.

BIO 3820 Basic Tissue Culture (4)
Fundamentals of animal and plant tissue culture. Laboratory exercises include methods of establishing and maintaining primary tissue cultures and the culture of established cell lines. (3 hr. lec./3 hr. lab.)
Prerequisites: 16 credits of Biology including BIO 1400 or permission of the instructor.

BIO 4835 Biostatistics (3)
Basic statistical techniques useful in biological research including frequency distributions, statistical inference, and application of chi square, analysis of variance and regression.
Prerequisites: 16 credits in Biology including BIO 1300 and BIO 1400, and MATH 1054, or permission of instructor.

RESEARCH, SEMINAR, EXTERNSHIPS

BIO 4395,6,7,8 Cooperative Education in Biology (1-4)
Off-campus laboratory experience in a biological field. Students may work full or part-time by arrangement with employer. May be repeated for credit, up to a total of four credits. (E)
Prerequisites: Completion of 16 credits in Biology Core and Junior Status, and permission of department chairperson.

BIO 4901, 4902 Honors Thesis in**Biology I and II (3, 3)**

Qualified undergraduate biology majors will gain an appreciation of how biological knowledge is acquired by participating in an independent laboratory or field research project under the guidance of a faculty member, to a depth not attainable through regular class work. Both courses are taken as a chronological series, (BIO 4901 must precede BIO 4902). (E)

Prerequisite: Open to students who have fulfilled 20 BIO credit hours, have been admitted into the Biology Honors Program, and have permission of Honors faculty advisor.

BIO 4911,2,3,4 Special Topics in Biology (1-4)

Class work designed to provide an opportunity to study special topics in biology which are not studied in regular courses. Topics to be announced by the department. One semester hour of credit given for each 15 hours of class work. (E)

Prerequisites: 16 semester hours of biology.

BIO 4961,2,3 Independent Research in Biology (1-3)

A laboratory or field investigation of a biology research problem, performed independently by student, under the supervision of a faculty member. May be repeated for credit, up to a total of six credits; however, only four credits may be used to fulfill major elective requirement. (E)

Prerequisites: Open to seniors with a minimum of 20 credits in Biology, or Juniors who are on Dean's List at the time of enrollment with a minimum of 16 credits in Biology, and permission of department chairperson.

BIO 4970 Seminar in Integrative Biology (3)

Critical analysis of current topics in biology utilizing the primary literature and integrating concepts taught in the Biology Core curriculum. Consideration given to social, ethical, philosophical and/or historical aspects of the life sciences. Format includes student presentations, reading-based class discussions, and library papers. (E)

Prerequisites: 20 credits in Biology Core and Senior status.

NEW JERSEY MARINE SCIENCES CONSORTIUM

Kean University is a participating member institution of the New Jersey Marine Sciences Consortium (NJMSC) which is dedicated to promoting knowledge about and the stewardship of New Jersey's marine and coastal environment. Kean University students may enroll in credit-bearing marine science courses which are taught on a rotating basis at the Sandy Hook field station. Students are referred to the NJMSC website at <http://www.njmsc.org> to determine which courses are being offered each summer. Sample course offerings include the following:

BIO 2650 Introduction to Marine Biology (4)

Offered (some) summers at N.J. Marine Sciences Consortium field stations. A field and laboratory oriented course covering the characteristics of marine plants and animals; instruction and experience in collecting and identifying examples of local marine flora and fauna. May not be applied toward credit for major requirements in biology. (E)

Prerequisite: BIO 1000 or equivalent.

BIO 4415 Ichthyology (4)

Offered (some) summers at N.J. Marine Sciences Consortium field stations. The biology of the major groups of fishes, including fish systematics, anatomy, physiology, reproduction, evolution, adaptations, genetics, ecology and zoogeography. (E)

Prerequisite: BIO 3400.

SONS Chemistry

Program Coordinator, Dr. Matthew Mongelli
C-221 (908) 737-3630

The chemistry program recognizes its obligation to guide its students to think analytically, critically and creatively. Chemistry is a discipline that combines qualitative and quantitative reasoning. These discipline-based courses develop reasoning skills, which are required for solving scientific problems and for understanding current structural and behavioral models of matter.

The chemistry program is committed to offering major programs for those students wishing to concentrate their undergraduate studies in the field of chemistry. A program certified by the Committee on professional Training of the American Chemical Society (ACS) is offered for those students wishing to undertake graduate study in chemistry or who wish to seek employment as chemists upon graduation. The chemistry program also offers a major program for students seeking entry into new and current technologies and to develop research skills through our undergraduate research program.

For information regarding College/program mission and student learning outcomes please see
<http://www.kean.edu/~sons/chemistry.html>

B.A. DEGREE - CHEMISTRY

OPTION: GENERAL

This program is designed to prepare the student for graduate study in the various fields of chemistry and for positions in the chemical and related industries.

GENERAL EDUCATION REQUIREMENTS 44-45

FOUNDATIONS REQUIREMENTS¹ 13

GE 1000 Transition to Kean² 1

OR

GE 3000 Transfer Transitions² 1

ENG 1030 College Composition³ 3

MATH 1000 Algebra for College Students⁴ 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2024 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

HUMANITIES 9

*ENG 2403 World Literature 3

Select two courses from different areas:

Fine Arts or Art History 3

Foreign Languages⁵ 3

(Must take I and II for credit)

Philosophy or Religion 3

Music or Theatre 3

Interdisciplinary 3

SOCIAL SCIENCES 9

*HIST 1062 Worlds of History 3

Select two courses from different areas:

Economics or Geography 3

Political Science 3

Psychology 3

Sociology or Anthropology 3

Interdisciplinary 3

SCIENCE & MATHEMATICS 11

*MATH 1054 Precalculus⁴ 3

PHYS 2095 Physics I 4

PHYS 2096 Physics II 4

HEALTH/PHYSICAL EDUCATION 2-3

ID 1010 Leisure & Rec in Multicultural Society

OR

ID 1225 Issues Contemp. Health 3

OR

Physical Education 2

ADDITIONAL REQUIREMENTS 19

MATH 2415 Calculus I⁴ 4

MATH 2416 Calculus II 4

MATH 3415 Calculus III 4

ENV 1000 Intro to Environmental Science 3

PHYS 2097 Physics III 4

MAJOR AND CAPSTONE REQUIREMENTS 45

CHEM 1083 Chemistry I 4

CHEM 1084 Chemistry II 4

CHEM 2283 Quantitative Analysis 4

CHEM 2491 Inorganic Chemistry 3

CHEM 2581 Organic Chemistry Lec I 3

CHEM 2582 Organic Chemistry Lec II 3

CHEM 2583 Org. Chemistry Lab & Rec I (WE) 2

CHEM 2584 Org. Chemistry Lab & Rec II 2

CHEM 3284 Instr Meth of Analysis (WE) 4

CHEM 3381 Physical Chemistry Lec I 3

CHEM 3382 Physical Chemistry Lec II 3

CHEM 3383 Physical Chemistry Lab I 2

CHEM 3384 Physical Chemistry Lab II 2

CHEM 4481 Advanced Inorganic Chemistry 3

MAJOR/ GE CAPSTONE COURSE³

CHEM 4908 Seminar in Chemistry 3

FREE ELECTIVES 15-16

(50% of free electives must be taken at the 3000-4000 level)

TOTAL 124

* GE required course

¹ See prerequisites and equivalencies.

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

³ ENG 1030, all Major courses, and the Capstone require a grade of C or better.

⁴ Students whose qualifying score on the placement test makes them eligible to take MATH 1054 or MATH 2415 may take that course instead. In that case, MATH 1054 or MATH 2415 will count as the General Education requirement and the student may take another 3 or 6 credits in Free Electives to total 124 S.H.

⁵ Credit granted upon completion of elementary or intermediate foreign language. Three credits can be applied to Humanities and 3 credits can be applied to Free Electives.

B.A. DEGREE - CHEMISTRY

OPTION: PREPROFESSIONAL

The following program is designed for students planning to apply to medical or dental schools. Since many medical schools prefer a core of courses in the humanities, students are advised to consult the catalogs of medical schools to which they will apply and to select courses with departmental advisement which will insure meeting entrance requirements.

GENERAL EDUCATION REQUIREMENTS 44-45

FOUNDATIONS REQUIREMENTS¹ 13

GE 1000 Transition to Kean² 1

OR

GE 3000 Transfer Transitions² 1

ENG 1030 College Composition³ 3

MATH 1000 Algebra for College Students⁴ 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2024 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

HUMANITIES 9

*ENG 2403 World Literature 3

Select two courses from different areas:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages⁵ 3

(Must take I and II for credit)

Music or Theatre 3

Interdisciplinary 3

SOCIAL SCIENCES 9

*HIST 1062 Worlds of History 3

Select two courses from different areas:

Economics or Geography 3

Political Science 3

Psychology 3

Sociology or Anthropology 3

Interdisciplinary 3

SCIENCE & MATHEMATICS 11

*MATH 1054 Precalculus³ 3

PHYS 2095 Physics I 4

PHYS	2096	Physics II	4
HEALTH/PHYSICAL EDUCATION			
ID	1010	Leisure & Rec in Multicultural Society	2-3

OR

ID	1225	Issues Contemp. Health	3
OR			
		Physical Education	2

ADDITIONAL REQUIREMENTS			
MATH	2415	Calculus I ⁴	4
MATH	2416	Calculus II	4
MATH	3415	Calculus III	4
PHYS	2097	Physics III	4
BIO	1300	General Biology I	4
BIO	1400	General Biology II	4
ENV	1000	Intro to Environmental Science	3

MAJOR AND CAPSTONE REQUIREMENTS **35**

CHEM	1083	Chemistry I	4
CHEM	1084	Chemistry II	4
CHEM	2283	Quantitative Analysis	4
CHEM	2581	Organic Chemistry Lec I	3
CHEM	2582	Organic Chemistry Lec II	3
CHEM	2583	Org. Chemistry Lab and Rec I (WE)	2
CHEM	2584	Org. Chemistry Lab and Rec II	2
CHEM	3284	Instr Meth of Analysis (WE)	4
CHEM	3381	Physical Chemistry Lec I	3
CHEM	3581	Biochemistry	3

MAJOR/GE CAPSTONE COURSE³

CHEM	4908	Seminar in Chemistry	3
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FREE ELECTIVES **17-18**
(50% of free electives must be taken at the 3000-4000 level).

TOTAL **124**

* GE required course

¹ See prerequisites and equivalencies.

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

³ ENG 1030, all Major courses, and the Capstone require a grade of C or better.

⁴ Students whose qualifying score on the placement test makes them eligible to take MATH 1054 or MATH 2415 may take that course instead. In that case, MATH 1054 or MATH 2415 will count as the General Education requirement and the student may take another 3 or 6 credits in Free Electives to total 124 S.H.

⁵ Credit granted upon completion of elementary or intermediate foreign language. Three credits can be applied to Humanities and 3 credits can be applied to Free Electives.

B.A. DEGREE - CHEMISTRY

OPTION: CHEMISTRY TEACHER CERTIFICATION

Students choosing this (P-12) option must make a formal application for admission to the Elementary, Middle and Secondary Education (EMSE) Department. Prior to taking education courses, all prerequisites must be met. See the description under the College of Education.

GENERAL EDUCATION REQUIREMENTS **45**

FOUNDATION REQUIREMENTS¹ **13**

GE	1000	Transition to Kean ²	1
OR			
GE	3000	Transfer Transitions ²	1
ENG	1030	College Composition ³	3
MATH	1000	Algebra for College Students ⁴	3
COMM	1402	Speech Communication as Critical Citizenship	3
GE	2024	Research & Technology	3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

HUMANITIES **9**

*ENG	2403	World Literature	3
Select two courses from different areas:			
		Fine Arts or Art History	3
		Philosophy or Religion	3
		Foreign Languages ⁵	3
(Must take I and II for credit)			
		Music or Theatre	3
		Interdisciplinary	3

SOCIAL SCIENCES **9**

*HIST	1062	Worlds of History	3
PSY	1000	General Psychology	3
SOC	1000	Intro to Sociology	3

OR

ANTH	1800	Cultural Anthropology	3
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SCIENCE & MATHEMATICS **11**

* MATH	1054	Precalculus ⁴	3
PHYS	2095	Physics I	4
PHYS	2096	Physics II	4

HEALTH/PHYSICAL EDUCATION **3**

ID	1225	Issues Contemp. Health	3
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ADDITIONAL REQUIREMENTS **26**

MATH	2415	Calculus I ⁴	4
MATH	2416	Calculus II	4
PHYS	2097	Physics III	4
PSY	2110	Psy of Adolescence	3
BIO	1300	General Biology I	4
ID	2955	Disabled Pers in Amer Soc	3

Select one of the following courses:

GEOL	1200	Intro Geology	4
OR			
METR	1300	Intro Meteorology	4
OR			
ASTR	1000	Intro Astronomy	4

OR

OCEN	2400	Intro Oceanography	4
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MAJOR AND CAPSTONE REQUIREMENTS **36**

CHEM	1083	Chemistry I	4
CHEM	1084	Chemistry II	4
CHEM	2283	Quantitative Analysis	4
CHEM	2581	Organic Chemistry Lec I	3
CHEM	2582	Organic Chemistry Lec II	3
CHEM	2583	Org. Chemistry Lab & Rec I (WE)	2
CHEM	2584	Org. Chemistry Lab & Rec II	2
CHEM	3284	Instr. Methods of Analysis (WE)	4
CHEM	3381	Physical Chemistry Lec I	3
CHEM	3581	Biochemistry	3
CHEM	3901	Independent Chemistry Research I	1

MAJOR/GE CAPSTONE COURSE

CHEM	4908	Seminar in Chemistry	3
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PROFESSIONAL EDUCATION **27**

Sophomore Level

EMSE	2801	Intro Field Experience K-12	3
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Junior Level

EDUC	3000	Curriculum Eval. & Learner	3
EDUC	3401	Language Arts/Reading K-12	3
EMSE	3230	Science Education K-12	3
EMSE	3801	Field Exp Subj Area K-12	2
EMSE	3903	Eng Lang Learn in Amer Soc	1

Senior Level

EMSE	4811	Prof Intern/Subj Area K-12	9
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PROFESSIONAL/GE CAPSTONE

EDUC	4000	Teacher and Classroom	3
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TOTAL **134**

* GE required course

¹ See prerequisites and equivalencies.

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

³ For Chemistry major, ENG 1030, all Major courses, and the Capstone require a grade of C or better: See Secondary Education section for additional and higher minimum grade requirements for education majors.

⁴ Students whose qualifying score on the placement test makes them eligible to take MATH 1054 or MATH 2415 may take that course instead. In that case, MATH 1054 or MATH 2415 will count as the General Education requirement and the student may take another 3 or 6 credits in Free Elective to total 134 S.H.

⁵ Credit granted upon completion of elementary or intermediate foreign language.

B.S. DEGREE - CHEMISTRY

OPTION: EXPANDED (ACS CERTIFIED)

For students who plan to enter professional careers in chemistry immediately after graduation or who plan to undertake graduate study, the American Chemical Society (ACS) requires a curriculum for professional training that includes a series of advanced courses. The curriculum for this option is based upon the ACS guidelines. Students completing this program are certified by the ACS and may become members of the ACS immediately upon graduation. Students desiring to complete the expanded option should consult the program coordinator.

GENERAL EDUCATION REQUIREMENTS 32

FOUNDATION REQUIREMENTS¹ 13

GE 1000 Transition to Kean² 1

OR

GE 3000 Transfer Transitions² 1

ENG 1030 College Composition³ 3

MATH 1000 Algebra for College Students⁴ 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2024 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

HUMANITIES 6

*ENG 2403 World Literature 3

Select one course from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages⁵ 3

(Must take I and II for credit)

Music or Theatre 3

Interdisciplinary 3

SOCIAL SCIENCES 6

*HIST 1062 Worlds of History 3

Select one course from below:

Economics or Geography 3

Political Science 3

Psychology 3

Sociology or Anthropology 3

Interdisciplinary 3

SCIENCE & MATHEMATICS 7

* MATH 1054 Precalculus⁴ 3

PHYS 2095 Physics I 4

ADDITIONAL REQUIREMENTS 20

MATH 2415 Calculus I⁴ 4

MATH 2416 Calculus II 4

MATH 3415 Calculus III 4

PHYS 2096 Physics II 4

PHYS 2097 Physics III 4

MAJOR AND CAPSTONE REQUIREMENTS 57

CHEM 1083 Chemistry I 4

CHEM 1084 Chemistry II 4

CHEM 2283 Quantitative Analysis 4

CHEM 2491 Inorganic Chemistry 3

CHEM 2581 Organic Chemistry Lec I 3

CHEM 2582 Organic Chemistry Lec II 3

CHEM 2583 Organic Chemistry Lab/Rec I (WE) 2

CHEM 2584 Organic Chemistry Lab/Rec II 2

CHEM 3284 Instr. Methods of Analysis (WE) 4

CHEM 3381 Physical Chemistry Lec I 3

CHEM 3382 Physical Chemistry Lec II 3

CHEM 3383 Physical Chemistry Lab I 2

CHEM 3384 Physical Chemistry Lab II 2

CHEM 3581 Biochemistry 3

CHEM 4481 Adv. Inorganic Chemistry 3

CHEM 4483 Inorganic Chemistry Lab 3

4000 level Chemistry lab course 3

One 4000 level lecture courses in Chemistry, Physics, Math, or Earth Sciences 3

MAJOR/GE CAPSTONE COURSE

CHEM 4908 Seminar in Chemistry³ 3

FREE ELECTIVES 15

(50% of free electives must be taken at the 3000-4000 level)

TOTAL 124

* GE required course

¹ See prerequisites and equivalencies.

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

³ ENG 1030, all Major courses, and the Capstone require a grade of C or better.

⁴ Students whose qualifying score on the placement test makes them eligible to take MATH 1054 or MATH 2415 may take that course instead. In that case, MATH 1054 or MATH 2415 will count as the General Education requirement and the student may take another 3 or 6 credits in Free Electives to total 124 S.H.

⁵ Credit granted upon completion of elementary or intermediate foreign language. Three credits can be applied to Humanities and 3 credits can be applied to Free Electives.

B.S. DEGREE - CHEMISTRY

OPTION: CHEMICAL INSTRUMENTATION (ACS CERTIFIED)

This option is designed for students who plan to enter professional careers in analytical chemistry immediately after graduation or who plan to undertake graduate study in analytical chemistry. The curriculum for this option is based upon the guidelines required by the American Chemical Society (ACS) for professional training that includes a series of advanced courses. Students completing this program are certified by the ACS and may become members of the ACS immediately upon graduation. Students desiring to com-

plete the expanded option should consult the program coordinator.

GENERAL EDUCATION REQUIREMENTS 32

FOUNDATION REQUIREMENTS¹ 13

GE 1000 Transition to Kean² 1

OR

GE 3000 Transfer Transitions² 1

ENG 1030 College Composition³ 3

MATH 1000 Algebra for College Students⁴ 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2024 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

HUMANITIES 6

*ENG 2403 World Literature 3

Select one course from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages⁵ 3

(Must take I and II for credit)

Music or Theatre 3

Interdisciplinary 3

SOCIAL SCIENCES 6

*HIST 1062 Worlds of History 3

Select one course from below:

Economics or Geography 3

Political Science 3

Psychology 3

Sociology or Anthropology 3

Interdisciplinary 3

SCIENCE & MATHEMATICS 7

* MATH 1054 Precalculus⁴ 3

PHYS 2095 Physics I 4

ADDITIONAL REQUIREMENTS 28

BIO 1300 General Biology I 4

BIO 1400 General Biology II 4

MATH 2415 Calculus I⁴ 4

MATH 2416 Calculus II 4

MATH 3415 Calculus III 4

PHYS 2096 Physics II 4

PHYS 2097 Physics III 4

MAJOR AND CAPSTONE REQUIREMENTS 60-61

CHEM 1083 Chemistry I 4

CHEM 1084 Chemistry II 4

CHEM 2283 Quantitative Analysis 4

CHEM 2491 Inorganic Chemistry 3

CHEM 2493 Descriptive Inorganic Chemistry Lab 2

CHEM 2581 Organic Chemistry Lec I 3

CHEM 2582 Organic Chemistry Lec II 3

CHEM 2583 Organic Chemistry Lab/Rec I (WE) 2

CHEM 2584	Organic Chemistry Lab/Rec II	2
CHEM 3284	Instr. Methods of Analysis (WE)	4
CHEM 3381	Physical Chemistry Lec I	3
CHEM 3382	Physical Chemistry Lec II	3
CHEM 3383	Physical Chemistry Lab I	2
CHEM 3384	Physical Chemistry Lab II	2
CHEM 3581	Biochemistry	3
CHEM 3583	Biochemical Techniques	3
CHEM 3902	Independent Chemistry Research (2 semesters)	2,2

OR

CHEM 4284	Exp. Analytical Problem Solving	3
CHEM 4150	Spectroscopic ID of Organic Compounds	3
CHEM 4285	Chemical Separations	3
CHEM 4481	Adv. Inorganic Chemistry	3

MAJOR/GE CAPSTONE COURSE

CHEM 4908	Seminar in Chemistry ³	3
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FREE ELECTIVES⁴ 3-4

(50% of free electives must be taken at the 3000-4000 level)

TOTAL 124

* GE required course

¹ See prerequisites and equivalencies.

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

³ ENG 1030, all Major courses, and the Capstone require a grade of C or better.

⁴ Students whose qualifying score on the placement test makes them eligible to take MATH 1054 or MATH 2415 may take that course instead. In that case, MATH 1054 or MATH 2415 will count as the General Education requirement and the student may take another 3 or 6 credits in Free Electives to total 124 S.H.

⁵ Credit granted upon completion of elementary or intermediate foreign language. Three credits can be applied to Humanities and 3 credits can be applied to Free Electives.

CHEMISTRY MINOR

Must take each of the following:

CHEM 1083	Chemistry I
CHEM 1084	Chemistry II

Follow one of the following concentrations:

Track 1 (Analytical Chemistry Concentration) (25 Total Credits):

CHEM 2283	Quantitative Analysis
CHEM 2581	Organic Chemistry I
CHEM 2582	Organic Chemistry II
CHEM 3284	Instrumental Analysis
CHEM 4285	Chemical Separation Methods

Track 2 (Organic Chemistry Concentration) (23-24 Total Credits):

CHEM 2491	Inorganic Chemistry
OR	
CHEM 2283	Quantitative Analysis
CHEM 2581	Organic Chemistry I
CHEM 2582	Organic Chemistry II
CHEM 3581	Biochemistry
CHEM 4285	Spectroscopic Identification of Organic Compounds

Track 3 (Inorganic Chemistry Concentration) (23 Total Credits):

CHEM 2491	Inorganic Chemistry
CHEM 2581	Organic Chemistry I
CHEM 2582	Organic Chemistry II
CHEM 3381	Physical Chemistry I
CHEM 4481	Advanced Inorganic Chemistry

Track 4 (Physical Chemistry Concentration) (22 Total Credits):

CHEM 2283	Quantitative Analysis
CHEM 3381	Physical Chemistry I
CHEM 3382	Physical Chemistry II
CHEM 3383	Physical Chemistry Laboratory and Rec. I
CHEM 3384	Physical Chemistry Laboratory and Rec. II

Track 5 (Biochemistry Concentration) (23-24 Total Credits):

CHEM 2491	Inorganic Chemistry
OR	
CHEM 2283	Quantitative Analysis
CHEM 2581	Organic Chemistry I
CHEM 2582	Organic Chemistry II
CHEM 3581	Biochemistry
CHEM 4285	Biochemistry Techniques
CHEM 4909 may be substituted for an upper level class when appropriate and with permission from program coordinator of Chemistry Department prior to enrollment. Students can not switch between the listed tracks. Research credits may NOT be used toward the minor in Chemistry except when upper level courses have not been offered during that academic year.	

CHEMISTRY COURSES

GENERAL

CHEM 1000 Principles of Chemistry (4)

A one-semester terminal course in the structure of matter, the law that describe its transformations, and the theories that attempt to explain them. Involves symbols, formulas, equations, and computations in the study of chemical change, acids, bases, salts, solutions, and organic compounds.

Note: This course is not currently offered but see CHEM 1001 below.

CHEM 1001 Principles of Chemistry (3)

Duplicates the non-laboratory portion of CHEM 1000. A non-laboratory course restricted to non-matriculated students wishing to transfer the credits to institutions not requiring laboratory experience. Students meet with CHEM 1000 sections and are responsible for the same examinations and non-laboratory assignments. (3 hr. lec./3 hr. lab.) (E)

CHEM 1010 Preparatory Chemistry (4)

Basic introduction to elementary chemical principles, language, calculations, and techniques. Modular approach stresses mastery of concepts. May not be used for credit toward graduation by chemistry majors (all options). (3 hr. lec./3 hr. lab.) (E)

Prerequisite: One 1000 level mathematics course.

Approved General Education Distribution Course

CHEM 1030 Essentials of Chemistry (4)

Fundamental concepts in general, organic and biochemistry are covered, providing examples of chemistry in health care and real life applications. Problem solving and critical scientific thought stressed. (3 hr. lec./3 hr. lab/1 hr. recitation.) (E)

Prerequisites: One 1000 level mathematics course.

Required for the Occupational Therapy Program.

Approved General Education Distribution Course

CHEM 1083 Chemistry I (4)

A thorough discussion of the fundamental principles of general and inorganic chemistry such as atomic structure, ionic and covalent bonding, chemical calculations, thermodynamics and gases. Mathematical relationships and problem-solving are stressed. It is essential that the student have competence in elementary algebra. (3 hr. lec./3 hr. lab./1 hr. recitation) (E)

Corequisite: MATH 1054.

Prerequisites: High school chemistry or equivalent course and MATH 1000.

Approved General Education Distribution Course

CHEM 1084 Chemistry II (4)

A continuation of Chemistry I (CHEM 1083). A thorough discussion of the basic principles of general and inorganic chemistry such as solid and liquid states, solutions, chemical kinetics and equilibrium, acid/base theories and electrochemistry. Mathematical relationships and problem-solving are stressed. (3 hr. lec./ 3 hr. lab./1 hr. recitation) (E)

Prerequisites: MATH 1054, CHEM 1083 or equivalent course with a grade of "C" or better.

Approved General Education Distribution Course

CHEM 1200 Chemistry In Your World (3)

A modular approach to the impact of chemistry and its fundamental principles on our everyday, real world experiences. Applications, issues and concerns are explored. May not be used for credit toward graduation by chemistry majors. (3 hr. lec.) (E)

Prerequisite: One 1000 level mathematics course.

Approved General Education Distribution Course

ORGANIC

CHEM 2180 Principles of Organic Chemistry (4)

A terminal one semester course for the non-major dealing with structure and reactions of organic compounds. Industrial and medical applications are included. (3 hr. lec./3 hr. lab.) (SE)

Prerequisites: CHEM 1084 or permission of the instructor.

CHEM 2581 Organic Chemistry I (3)

This is the first half of a two-semester sequence in organic chemistry for science majors. The physical and chemical properties of organic compounds are studied using a functional group organization and a mechanistic perspective. The functional groups include alkanes, alkenes, alkynes, alkyl halides, alcohols & ethers, conjugated compounds and arenes. More general topics covered include molecular orbital theory, thermodynamics & spontaneity, reaction mechanisms & kinetics, stereochemistry and spectroscopy. (3 hr. lecture) (E)
Prerequisite: A grade of "C" or better in CHEM 1084.

CHEM 2582 Organic Chemistry II (3)

The second half of a two-semester sequence in organic chemistry for science majors. The remaining organic functional groups including aldehydes & ketones, carboxylic acids, acyl halides, anhydrides, esters, amides, and amines are covered. More emphasis is placed on synthesis. The course may also include an introduction to the biochemistry of carbohydrates, lipids, proteins and nucleic acids. (3 hr. lecture) (E)
Prerequisites: A grade of "C" or better in CHEM 2581.

CHEM 2583 Organic Chemistry Laboratory and Recitation I (2)

This is the first half of a two-semester sequence in experimental organic chemistry. Examples of the major classes of organic compounds are prepared, purified and characterized using a mix of classical and state-of-the-art techniques. Practical problem solving is emphasized. (4 hour lab/1hour rec.) (E)
Corequisite: CHEM 2581 or permission of the instructor.

Writing Emphasis Course

CHEM 2584 Organic Chemistry Laboratory and Recitation II (2)

Second half of a two-semester sequence in experimental organic chemistry focusing on more advanced preparative techniques and procedures. Familiarity with standard separation and analysis methods, as well as record keeping, is expected. (4 hour lab/1hour rec.) (E)
Corequisite: CHEM 2582.
Prerequisite: CHEM 2583 with a minimum grade of "C" or permission of the instructor.

CHEM 3187 Organic Chemistry Lecture III(3)

A continuation in depth of the study of organic compounds and syntheses from a mechanistic approach. (3 hr. lec.) (E3)
Prerequisite: CHEM 2582.

CHEM 3189 Advanced Organic Preparations (3)

A laboratory course designed to give the student a broader background in the synthesis of organic compounds. (1 hr. lec./6 hr. lab.)
Prerequisite: CHEM 2584.

CHEM 4150/5150 Spectrometric Identification of Organic Compounds (3)

Determination of the structure of organic compounds by analysis on infrared, ultra-violet, nuclear magnetic resonance and mass spectra. Extensive use of published spectra of "unknowns." (3 hr. lec.)
Prerequisites: CHEM 2582, CHEM 3382 or permission of instructor.

CHEM 4182 Advanced Organic Preparations (3)

A laboratory course designed to give the student a broader background in the synthesis of organic compounds. (1 hr. lec./6 hr. lab.) (E3)
Prerequisite: CHEM 2584.

CHEM 4183 Introduction to Physical Organic Chemistry (3)

The application of physical chemical principles to the study of organic compounds. An introduction to conformational analysis, molecular orbital theory and resonance concepts. (3 hr. lec.) (E3)
Prerequisites: CHEM 2582 and CHEM 3382.

CHEM 4184/5184 Introduction to Molecular Modeling and its Applications (3)

Introduction to the use of computational chemistry and molecular modeling as tools for the solution of real-world research problems in chemistry and biochemistry. Students must have a fundamental understanding of the structural organic chemistry, thermo-dynamics, kinetics, elementary biochemistry and the general principles of quantum chemistry. (3 hr. lec.) (E3)
Prerequisites: CHEM 2582, CHEM 3382 or permission of instructor.

ANALYTICAL**CHEM 2283 Quantitative Analysis (4)**

The theory, calculations, and techniques of gravimetry, titrimetry and photometric methods of analysis. Equilibria of acid/base, redox and complexation reactions are emphasized. Development of analytical laboratory skills is stressed. (3 hr. lec./5 hr. lab.) (E)
Prerequisite: CHEM 1084 or equivalent with a minimum grade of C.

CHEM 3284/5284 Instrumental Methods of Analysis (4)

General applications of modern instruments to the detection, identification and estimation of chemical elements and compounds. Laboratory exercises in the use of a variety of instruments. (3 hr. lec./3 hr. lab.) (E)
Prerequisites: CHEM 2283, MATH 2415, PHYS 2097 or permission of instructor.
Writing Emphasis Course

CHEM 4284 Experimental Analytical Problem Solving (4)

A student driven laboratory course where the student is presented with an analytical problem in which identification and quantification of compounds are the primary goals. The student designs and implements a semester long research project(s) rooted in appropriate analytical chemical techniques. A written project report and oral presentation of work is required. This course does not replace Independent Research. (1 hr Lecture, 5 hrs Laboratory) (E3)
Prerequisite: Chem 2584, Chem 3284, Chem 3383 or permission of instructor.

CHEM 4285/5285 Chemical Separation Methods (3)

Provides background in modern chemical separation methods. Theory, instrumentation and application of distillation, selective complexation, solvent extraction and various chromatographic methods. Major emphasis will be placed on high performances - thin layer, liquid and gas chromatographic techniques. Experience with many modern and sophisticated chromatographic instruments. (3 hr. lec./lab.) (E3)
Prerequisites: CHEM 2582, 3284, 3382 or permission of instructor.

PHYSICAL**CHEM 3381 Physical Chemistry Lecture I (3)**

Detailed discussions of the theories of thermodynamics and their applications to the behavior of matter. Thermodynamic functions such as U, H, S, G and A, are defined and relationships among them are mathematically derived. The functions are applied in explaining and predicting the properties of gas, chemical equilibrium, phase change, solubility, and electrochemistry. (3 hr. lec./1 hr. rec.) (FA)
Prerequisites: CHEM 1084, PHYS 2096, and MATH 3415 or permission of instructor.

CHEM 3382 Physical Chemistry Lecture II(3)

Continuation of CHEM 3381 with the focus shifted to quantum chemistry, spectroscopy and chemical kinetics. The principles of quantum mechanics (including Hamiltonian, quantum numbers, wavefunctions, and orbital energy) are covered explicitly and used to formulate general molecular orbital theory. Spectroscopy is explained with similar rigor and applied in the elucidation of molecular structures. Discussions of chemical kinetics include rate law, transition state theory, thermodynamic parameters of activated complexes, and reaction mechanisms. (3 hr. lec./1 hr. rec.) (SP)
Prerequisite: Chem 3381 or permission of instructor

CHEM 3383 Physical Chemistry Laboratory and Recitation I (2)

Laboratory experience to illustrate theoretical concepts of physical chemistry with the emphasis on thermodynamics through experimental measurement. Laboratory exercises and reports will focus on obtaining the values of thermodynamic variables, such as enthalpy, entropy, and Gibbs free energy. In addition, statistical skills needed to assess data quality will be developed, and used to evaluate the need for repetition of experiments. (4 hr. lab./1 hr. rec.) (FA)
Prerequisite: CHEM 2283.
Corequisite: CHEM 3381 or permission of instructor.

CHEM 3384 Physical Chemistry Laboratory and Recitation II (2)

A continuation of CHEM 3383 with an increased emphasis on spectroscopic and computational methods for obtaining kinetic, thermodynamic and structural information about compounds and chemical systems. Laboratory exercises and reports will focus on acquisition and interpretation of spectral data and kinetic measurements. These data will be used to elucidate the details of molecular structures, the nature of intermolecular interactions and the mechanisms of reactions. (4 hr. lab/1 hr. rec.) (SP)
Prerequisite: CHEM 3383
Corequisite: CHEM 3382 or permission of instructor.

CHEM 4381 Physical Chemistry III (3)
Advanced topics in physical chemistry including thermodynamics, quantum chemistry and kinetics and their relationship: thermodynamics and quantum chemistry, quantum chemistry and spectroscopy, thermodynamics of macromolecules. (3 hr. lec.) (E3)
Prerequisites: CHEM 3382 or permission of instructor.

INORGANIC

CHEM 2491 Inorganic Chemistry (3)
Descriptive chemistry of the Main Group elements, transition metals and rare earth metals. Emphasis on the chemical and physical properties of the elements. Discussion of periodic law, basics of nuclear chemistry and natural occurrence and industrial uses of the elements and their compounds. (3 hr. lec.) (E)
Prerequisites: MATH 2415; "C" or better in CHEM 1084; or permission of the instructor.

CHEM 2493 Descriptive Inorganic Chemistry Lab (2)
This course is designed to either be taken simultaneously with or after Inorganic Chemistry (CHEM 2491). The laboratory is meant to reinforce the topics covered in Inorganic Chemistry lecture and to develop skills needed for studying inorganic compounds. Labs will include qualitative analysis, synthesis of coordination complexes, and characterization techniques. (4 hrs lab) (E3)
Prerequisites: "C" or better in CHEM 1084; or permission of the instructor. *Corequisite:* CHEM 2491 (the inverse does not apply)

CHEM 4481 Advanced Inorganic Chemistry(3)
Periodicity and stereochemistry of the Main Group Elements and comparative group properties. Stereochemistry and coordination chemistry of transition metals. Discussion of the theories of bonding in transition metal complexes and the Main Group elements. Nonaqueous solvents and reaction mechanisms in inorganic chemistry. (3 hr. lec.) (FA)
Prerequisites: CHEM 3284, CHEM 2491, CHEM 3381, CHEM 2582, or permission of instructor.
Corequisite: CHEM 3382 or permission of instructor.

CHEM 4483 Inorganic Chemistry Laboratory (3)
Modern methods of synthesizing inorganic and organometallic compounds including electrolytic, high temperature and vacuum-line preparations. The study of the prepared compounds using a variety of techniques including infra-red, visible, ultra-violet spectroscopies, nuclear magnetic resonance, chromatographic, x-ray analysis and electroanalytical methods of analysis. Equilibria of acid/base, redox and complexation reactions are emphasized. Development of analytical laboratory skills is stressed. (1 hr. lec./6 hr. lab.) (SP)
Prerequisites: CHEM 3284, CHEM 4481.

BIOCHEMISTRY

CHEM 3581 Biochemistry (3)
This is a one-semester course designed to introduce chemistry students to the major classes of biomolecules critical for sustaining life. Molecular mechanisms of biological processes are explored with an emphasis on kinetic, thermodynamic and solution properties of biomolecules. (3 hrs. lec) (FA)
Prerequisites: CHEM 2582

CHEM 3583 Biochemical Technique (3)
This course will focus on the experimental techniques to build upon the concepts acquired in Biochemistry lecture. These concepts include buffers and pH, polymerase chain reaction, enzyme purification and kinetics, amino acid pKa's, and electrophoresis. Proper laboratory technique, use of a laboratory notebook, and the writing of laboratory reports will be stressed. (1 hr Lec, 5 hrs Lab) (E3)
Prerequisites: Minimum grade of a C in CHEM 3581

SEMINARS AND INDEPENDENT STUDY

A maximum of 12 credits of chemistry research (CHEM 3901-4 and CHEM 4905-6) may be taken. Only 6 credits may be applied towards the total degree credits required for graduation.

CHEM 3500 Chemistry-Physics Cooperative Education Internship (1-3)
Selected majors in Chemistry and Chemistry-Physics test theories learned in the classroom with on-the-job experience in career related areas. Assignments and placements are arranged by the department in cooperation with the Office of Cooperative Education. Seminars, student reports and term papers required. Credits earned cannot be used to fulfill the major or cognate requirements. Application to the Coop Internship must be made during advanced registration. (E)
Prerequisites: CHEM 1083-4, CHEM 2283, CHEM 2581, CHEM 2583, good academic standing junior or senior status and permission of the department cooperative education committee.

CHEM 3901-4 Independent Chemistry Research I-IV (1-2)
Research problems in chemistry investigated under direction of a faculty member. Students completing two semesters of independent study under the same project director must submit a written or oral report to the departmental research committee. May be taken 4 times for credit, 1-2 credits per semester. (E)
Prerequisites: 8 credits in chemistry plus 12 credits in 2000 level science or mathematics courses, sponsoring faculty member and approval of department chairperson.

CHEM 4905-6 Senior Honors Research I and II (3,3)
Research problems in chemistry investigated under the direction of a faculty member. A progress report must be submitted to the faculty sponsor before the end of each semester. An oral report to be made before the departmental research committee at end of second semester. Seniors wishing to qualify for honors with their chemistry degree must also submit a thesis or publishable report to the departmental research committee before completing second term. (E)
Prerequisites: CHEM 3381, 3383, a sponsoring faculty member, and approval of department chairperson.
CHEM 4905 is prerequisite to 4906.

CHEM 4908 Seminar in Chemistry (3)
After an introduction to manual and computer-assisted techniques in literature searching, the student will choose a topic. A written paper will be prepare in electronic format and an oral presentation with computer graphics made using student's skills and knowledge based in Chemistry and relate disciplines. Satisfies the General Education Capstone requirement for chemistry majors. (3 hrs. lec) (SP)
Prerequisite: All GELAP requirements & permission of instructor

CHEM 4909 Special Topics in Chemistry (3)
Study of current topics in Chemistry which are not presented in regular courses. The subject matter will vary. Topics will be announced by the department. Course may be repeated for a maximum of 6 credits. (3 hr. lec. and/or lab.) (E3)
Prerequisite: 25 credits in Chemistry and permission of instructor.

SONS Physics

Minor in Physics

Program Coordinator, Dr. Jing Gao

B220E (908) 737-3585

For information regarding program mission and student learning outcomes please see <http://www.kean.edu/~sons/physics.html>

PHYSICS MINOR (19 CREDITS)

Take all of the following:

- PHYS 2095 Physics I (4)
- PHYS 2096 Physics II (4)
- PHYS 2097 Physics III (4)
- PHYS 4592 Modern Physics (4)

Take one of the following:

- PHYS 4593 Landmarks in Physics (3)

OR

- PHYS 4901 Independent Physics Research (3)

GENERAL

PHYS 1000 Principles of Contemporary Physics (4)

A one-semester survey of important principles of physics with applications to a variety of disciplines in modern technological society. Designed for non-science majors. (3 hr. lec./3 hr. lab.) (SP)

PHYS 1050 Energy, Physics & the Environment (3)

A survey of physics principles in the context of energy used and related environmental, social, economic, and sustainability issues. Motion and forces, energy and work, electricity, thermodynamics, fossil fuels, nuclear energy, alternative energy sources, pollution, global climate change. (3 hours lecture) (SP)

Prerequisite: one 1000 level MATH course.

PHYS 2081, 2082 Physics Lecture I and II(3,3)
Duplicates the non-laboratory portions of PHYS 2091, 2092, respectively. Non-laboratory courses restricted to non-matriculated students wishing to transfer credits to institutions not requiring laboratory. Students meet with PHYS 2091, 2092 and are responsible for all non-laboratory assignments of those courses. (3 hr. lec./1 hr. rec.) (AN)

Prerequisites: same as required by corresponding laboratory courses: PHYS 2091, 2092

PHYS 2091 General Physics I (4)

Mechanics, wave motion and sound. PHYS 2091/2092 is an algebra-trigonometry based sequence designed to give the student a general understanding of the laws and principles of physics. Students may not receive credit for both PHYS 2091 and 2095. (3 hr. lec./3 hr. lab./1 hr. rec.) (E)

Prerequisite: MATH 1054 or equivalent.

Approved General Education Distribution Course

PHYS 2092 General Physics II (4)

Continuation of the PHYS 2091/2092 sequence, and some modern physics, electricity and magnetism, optics, and modern physics. Students may not receive credit for both PHYS 2092 and PHYS 2097. (3 hr. lec./3 hr. lab./1 hr. rec.)

Prerequisite: PHYS 2091. (E)

Approved General Education Distribution Course

PHYS 2095 Physics I (4)

Kinematics and dynamics of particles and extended bodies. PHYS 2095 is a calculus based introduction to the fundamentals of classical physics. Students may not receive credit for both PHYS 2095 and PHYS 2091. (3 hr. lec./3 hr. lab./1 hr. rec.) (FA)

Prerequisite: MATH 2415.

Corequisite: MATH 2416.

Approved General Education Distribution Course

PHYS 2096 Physics II (4)

Continuation of the Physics sequence. Equilibrium and elasticity, gravity, fluid mechanics, wave motion and sound, thermodynamics, and optics. PHYS 2096 is a calculus based introduction to the fundamentals of classical physics. (3 hr. lec./3 hr. lab./1 hr. rec.) (SP)

Prerequisites: PHYS 2095, MATH 2416.

Approved General Education Distribution Course

PHYS 2097 Physics III (4)

PHYS 2097 is a calculus based continuation of the Physics sequence. Electricity and magnetism, Maxwell's equations, electromagnetic waves, and wave optics. Students may not receive credit for both PHYS 2097 and 2092. (3 hr. lec./3 hr. lab./1 hr. rec.) (FA)

Prerequisites: PHYS 2096, MATH 3415.

MODERN PHYSICS

PHYS 4592 Modern Physics (4)

A rigorous survey of atomic and nuclear physics, early experimentation, incompatibility of experimental findings and classical theory, and quantum and wave mechanics approaches to understanding modern physics. (3 hr. lec./3 hr. lab.) (SE)

Prerequisites: PHYS 2095, 2096 or permission of instructor.

PHYS 4593 Landmark Physics of the 20th Century (3)

A rigorous survey of important theories of the twentieth century selected from Einstein's special and general theories of relativity, nuclear physics, statistical mechanics, condensed matter physics, superconductivity, superfluidity, and other topics of current interest. (3 hr. lec.) (SO)

Prerequisites: PHYS 2095, 2096 or permission of instructor.

INDEPENDENT STUDY

PHYS 4901 Independent Physics Research (1-3)

Research problems involving current physics-related topics, either pure physics or interdisciplinary in nature, to be investigated under the guidance of a faculty director or team of co-directors. May be repeated for credit, up to a total of six credits. Students completing two semesters of independent study under the same project director(s) must submit a formal written report. (E)

Prerequisites: PHYS 2096, a sponsoring faculty member(s), and approval of the program coordinator.

School of Environmental and Sustainability Sciences (SESS)

Executive Director, Feng Qi

C-309 (908) 737-3737

The SESS provides a unique and collaborative scientific research-focused division within Kean University. Through the use of multiple scientific disciplines, students work with scientists in a transdisciplinary manner. The SESS faculty integrates their research into training, education, field and laboratory work, and mentoring of students who are destined for science research or professional careers as consultants and in local, state, and federal government agencies, regional biotechnology, health care, pharmaceutical industries and other private sector areas, the media, sustainability industries, and academia as intertwined with the natural environment and its living systems that interact with society and societal infrastructures.

The SESS has been designed to provide students with professional development opportunities so that they may be able to recognize and reconcile the highly complex and integrated nature of environmental, ecological, and health-related problems, issues, and questions facing the world today and in the future – particularly with regard to air, water, and land systems and their interaction with life and societal systems and how these pertain to sustainability concepts and best practices. Traditional single discipline-trained scientists are not adequately prepared to address such contemporary problems as they do not have the critical multi-scale and trans-disciplinary background and perspective, or the awareness of the needs/concerns of society with respect to the sciences.

Consequently, the SESS Faculty provide a transformative and global model of approach that connects research and education to help students gain strong scientific background, powerful research skills, critical thinking and analytic abilities, and multiple opportunities to practice their communication skills and gain awareness of how these necessarily connect to the global society. SESS program graduates understand and appreciate the connections among all of the basic and applied sciences, and between science and society; have the ability to design, implement, and evaluate research studies; are adept at identifying and resolving local to global issues across the environmental and life systems; and communicating scientific results and conclusions to scientific, public, and governmental private sector and governmental audiences; and as such, will be the next generation of scientists who will be able to address highly complex environmental and biological challenges now and into the future with consideration of sustainability.

The educational objectives are delivered in Degree Programs in Environmental Biology, Earth Sciences (two options of study, including Geoscience and Environmental Science), and Sustainability. For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

STATEMENT FROM THE FACULTY OF SESS

We welcome all students to consider an academic experience within SESS. Our faculty philosophy in SESS is that graduates from our programs should demonstrate a clear understanding of the connections among all the sciences, and between science and society, and be adept at identifying, addressing, discerning, and communicating regional, national, and global issues and solutions across the environmental and sustainability sciences to scientists, the general public, and governmental agencies and decision-makers. We believe these characteristics and outcomes are critical for the success of the next generation of scientists, who must observe, analyze, interpret, and address highly complex environmental challenges now and into the future.

SESS Earth Science (B.A.)

The B.A. Earth Science Program at Kean University offers general degree options in: Earth Science General Option, Teacher Certification Option, and Teacher of Students with Disabilities Option (Dual Certification). The programs provide education in the earth sciences and are dedicated to the academic growth of students. Students share concerns about our global environment and an interest in how the earth behaves and the appropriate management of these systems and their interactions. Our graduates have been successful in exciting careers including government agencies, private sector companies, consulting firms, teaching, and studies for graduate degrees.

In addition, programs for teacher certification in earth science and elementary education with an earth science specialization are offered. Collateral studies in environmental and marine sciences may be selected within the Earth Science major.

B.A. DEGREE EARTH SCIENCE

OPTION: GENERAL

The general earth science program provides students with a broad background in the earth sciences. This option covers the spectrum of earth science with emphasis on problem solving and topics of environmental importance.

GENERAL EDUCATION 44-45

FOUNDATIONS REQUIREMENTS

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030	College Composition	3
MATH	1000	Algebra for College Students #	3
COMM	1402	Speech Communication	3
GE	2024	Research and Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities		9
*ENG	2403 World Literature	3
Select two courses from different areas:		
	Fine Arts or Art History	3
	Foreign Languages	3
	Music or Theatre	3
	Philosophy or Religion	3
	Interdisciplinary	3
Social Sciences		9
*HIST	1062 Worlds of History	3
Select two courses from different areas:		
	Economics or Geography	3
	Political Science	3
	Psychology	3
	Sociology or Anthropology	3
	Interdisciplinary	3
Science & Mathematics		11
MATH	1054 Precalculus #	3
CHEM	1083-1084 Chemistry I & II	4, 4
OR		
PHYS	2091-2092 General Physics I & II	4, 4
Health & Physical Education		2-3
ID	1225 Issues in Contemporary Health	3
OR		
ID	1010 Leisure & Recreation in Multicultural Society	3
OR		
Two one-credit PED courses		1,1
* GE Required Distribution Course		
ADDITIONAL REQUIREMENTS		3
MATH	2411 Calculus I #	3
OR		
MATH	2412 Calculus II #	3
OR		
MATH	2526 Applied Statistics	3
MAJOR AND CAPSTONE REQUIREMENTS		31
Required Foundation Core Courses		
ASTR	1100 Introduction to Astronomy	4
GEOL	1200 Introduction to Geology	4
METR	1300 Introduction to Meteorology	4
OCEN	2400 Introduction to Oceanography	4
Select 3 courses from ASTR/ES/GEOL/GEOL/METR/OCEN 3000-4000 level		3-4
3000-4000 level		4
3000-4000 level		4
MAJOR/GE CAPSTONE COURSE		
Select one of the following		
ES	4981 Environmental Issues Seminar (WE)	3
OR		
ES	4953 and 4954 ES Seminar I & II	2,2
OR		

ES 4963 and 4964 Honors Research
Seminar in ES I & II 2,2

FREE ELECTIVES 44-47

(50% of free electives must be at the 3000-4000 level. Additional courses in Earth Science, Biology, Chemistry, Mathematics and Physics that leads to a collateral or minor program are recommended)

TOTAL 124

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

A Student whose qualifying score on the placement test makes them eligible to take either MATH 1054 or MATH 2411 may take that course instead. In that case, either MATH 1054 or MATH 2411 will count as the General Education requirement and the student may take another three to six credits in Free Electives to total 124 S.H.

B.A. DEGREE EARTH SCIENCE

OPTION: P-12 TEACHER CERTIFICATION

Students choosing this (P-12) option must make a formal application for admission to the Middle & Secondary Education Department (MSE). Prior to taking education courses, all prerequisites must be met. See the description under the College of Education.

GENERAL EDUCATION 45

FOUNDATIONS REQUIREMENTS

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1000 Algebra for College Students # 3

COMM 1402 Speech Communication 3

GE 2024 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

Select two courses from different areas:

Fine Arts or Art History 3

Foreign Languages 3

Music or Theatre 3

Philosophy or Religion 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

SOC 1000 Introduction to Sociology 3

OR

ANTH 1800 Cultural Anthropology 3

Science & Mathematics 11

MATH 1054 Precalculus # 3

CHEM 1083 Chemistry I 4

BIO 1000 Principles of Biology 4

Health & Physical Education 3

ID 1225 Issues in Contemporary Health 3

* GE Required Distribution Course

ADDITIONAL REQUIREMENTS 21

MATH 2411 Calculus I #

OR

MATH 2412 Calculus II # 3

OR

MATH 2526 Applied Statistics 3

CHEM 1084 Chemistry II 4

PHYS 2091 General Physics I 4

PHYS 2092 General Physics II 4

PSY 2110 Psychology Adolescence 3

ID 2955 Disabled Person in America Society 3

MAJOR AND CAPSTONE REQUIREMENTS 31

Required Foundation Core Courses

ASTR 1100 Introduction to Astronomy 4

GEOL 1200 Introduction to Geology 4

METR 1300 Introduction to Meteorology 4

METR 2300 Climatology 3

OCEN 2400 Introduction to Oceanography 4

Select 3 courses from
ASTR/ES/GEOG/GEOL/METR/OCEN

3000-4000 level 3-4

3000-4000 level 4

3000-4000 level 4

MAJOR/GE CAPSTONE COURSE

Select one of the following

ES 4981 Environmental Issues Seminar (WE) 3

OR

ES 4953 and 4954 ES Seminar I & II 2,2

OR

ES 4963 and 4964 Honors Research Seminar in ES I & II 2,2

PROFESSIONAL EDUCATION 30

Sophomore Level

EMSE 2801 Introductory Field Experience K-12 3

Junior Level

EDUC 3000 Curriculum, Evaluation and the Learner 3

EDUC 3401 Language Arts/Reading K-12 3

EMSE 3122 Computers in Education 3

EMSE 3230 Science Education K-12 3

EMSE 3801 Junior Field Experience/Subject Area K-12 2

EMSE 3903 Eng Lang Learn in America 1

Senior Level

EMSE 4811 Professional Internship/Subject Area K-12 9

PROFESSIONAL/GE CAPSTONE COURSE

EDUC 4000 Teacher and Classroom 3

TOTAL 127

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

A Student whose qualifying score on the placement test makes them eligible to take either MATH 1054 or MATH 2411 may take that course instead. In that case, either MATH 1054 or MATH 2411 will count as the General Education requirement and the student may take another three to six credits in Free Electives to total 124 S.H.

B.A. DEGREE EARTH SCIENCE/TEACHER OF STUDENTS WITH DISABILITIES

Students who wish to be certified in both Earth Science P-12 and Educator of Students with Disabilities should consult the Catalogue under Special Education programs for a complete description of this dual certification program.

GENERAL EDUCATION 45

FOUNDATIONS REQUIREMENTS

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1000 Algebra for College Students # 3

COMM 1402 Speech Communication 3

GE 2024 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

Select two courses from different areas:

Fine Arts or Art History 3

Music or Theatre 3

Philosophy or Religion 3

Social Sciences 9

*HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

SOC 1000 Introduction to Sociology 3

OR

ANTH 1800 Cultural Anthropology 3

Science & Mathematics 11

MATH 1054 Precalculus # 3

CHEM 1083 Chemistry I 4

BIO 1000 Principles of Biology 4

Health & Physical Education 3

ID 1225 Issues in Contemporary Health 3

* GE Required Distribution Course

ADDITIONAL REQUIREMENTS 27

MATH 2411 Calculus I #

OR

MATH	2412	Calculus II #	3
CHEM	1084	Chemistry II	4
PHYS	2091	General Physics I	4
PHYS	2092	General Physics II	4
PSY	2110	Psychology Adolescence	3
ID	2052	Human Exceptionality	3
ID	3051	Computer Technology in Today's Inclusive Society	3
ID	3163	Building Inclusive Environments through Positive Behavioral Supports	3

MAJOR AND CAPSTONE REQUIREMENTS

Required Foundation Core Courses	31
ASTR 1100 Introduction to Astronomy	4
GEOL 1200 Introduction to Geology	4
METR 1300 Introduction to Meteorology	4
OCEN 2400 Introduction to Oceanography	4
GEOL 3266 Hydrology	4
One of the following courses	4
GEOL 3261, GEOL 3263, GEOL 3264, GEOL 3265	

MAJOR/GE CAPSTONE COURSE

ES 4953 and 4954 ES Seminar I & II	2,2
OR	
ES 4963 and 4964 Honors Research Seminar in ES I & II	2,2

PROFESSIONAL EDUCATION

Sophomore Level	32
SPED 2120 Introductory Field Experience	3
SPED 2220 Multicultural Learner in Diverse Settings	3
Junior Level	
EDUC 3000 Curriculum, Evaluation and the Learner	3
EDUC 3401 Language Arts/Reading K-12	3
EMSE 3230 Science Education K-12	3
SPED 3000 Principles and Practices for the Contemporary Educator	3
SPED 3001 Preprofessional Field Experience	2
Senior Level	
SPED 4135 Professional Field Experience	9
EDUC 4000 Teacher and Classroom (SPED 4135 and EDUC 4000 must be taken concurrently)	3

TOTAL 135

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

A Student whose qualifying score on the placement test makes them eligible to take either MATH 1054 or MATH 2411 may take that course instead. In that case, either MATH 1054

or MATH 2411 will count as the General Education requirement and the student may take another three to six credits in Free Electives to total 124 S.H.

ASTRONOMY COURSES

ASTR 1100 Introduction to Astronomy (4)
A study of our solar system and the sidereal universe, with an emphasis on the nature of astronomical investigation. (3 hr. lec./3 hr. lab.) (E)
Approved General Education Distribution Course

EARTH SCIENCE COURSES

ES 1000 Observing the Earth (3)
A study of the earth and its processes from the perspective of observations and measurement, observing technology and systems, applications of observations and data to problem solving. (E)
Approved General Education Distribution Course

ES 1101 Introduction to Earth and Geographical Systems (4)
A study of the earth system from the perspective of a coupled natural and human system. Examination of the physical nature of the system components and their interactions. Fundamental skills in observation, visualization, quantitative methods for diagnosis and prediction of impacts. (3 hrs lecture, 3 hours lab). This course is a Major requirement for B.S. in Earth Science. (FA)
Prerequisites: MATH 1000

ES 2101 GeoHydro Systems (4)
An introduction to earth's geo-hydro systems from the perspective of system analysis. Examination of the dynamics of the systems, human-environment interactions, resource management, and connections with the biological and chemical systems.. (3hr. lec./3 hr. lab.)
Prerequisites: ES 1101, MATH 2415, or permission of instructor

ES 2400 Introduction to Oceanography(4)
A survey of modern oceanography and including the biological, geological, chemical and physical characteristics of the ocean and, methods and applications of sciences to the study of the oceans. (3hr. lec./3 hr. lab.)
Prerequisites: 4 Credit lab science class or permission of instructor

ES 3000 Global Climate Change and Society (4)
Analysis of evidence of past climate change, present climate variability, and trends related to future climate fluctuation. Examination of major variables controlling climate at a range of temporal scales. Study of the human role in the global climate change, and the response of the environment to such changes, including effects such as ecosystem changes, ocean current changes, and sea level rise. (3 hr. lect./3 hr. lab) (FA)
Prerequisites: METR 1300 and one 2000 level course (GEOG, OCEN)

ES 3010 Data Analysis and Modeling in Geoscience (4)

Overview of quantitative skills that is essential in the study of modern earth system science. Introduction to the principles of experimental design, data collection, data analysis, data visualization. Using modern analysis software and tools to facilitate data interpretation, modeling and theory development. (3 hr lec. / 3 hr lab.) (SO)
Prerequisites: MATH 1010 and four hours of Geoscience or permission of instructor

ES 3101 Atmospheric Systems (4)
Atmospheric dynamics in relation to environmental and life systems based on fundamental principles using observational data, conceptualization of atmospheric features, forces, processes, and analysis.
Prerequisite: ES 2101 and MATH 2415, or permission of instructor.

ES 3200 Geographic Information Systems in Geoscience (4)
Principles and applications of Geographic Information Systems (GIS). Fundamentals of digital cartography, spatial analysis, digital data. Acquiring, assembling, geo-referencing field data; topographic maps; images from remote sensing. Emphasis on Earth and Human Systems; population, urban development and land use. (3 hr lec./3 hr lab.) (SP)
Prerequisites: MATH 1054, four hours of Geoscience or permission of instructor

ES 3261 Mineralogy (4)
To apply mineralogic principles to environmental issues that deal with materials; to use mineralogic principles not only to identify environmental concerns, but also to work toward finding solutions to those problems; to develop a knowledge base for some recognizable environmentally important mineral groups to write coherent descriptions of materials and discussions of issues. (3hr. lec./3 hr. lab.)
Prerequisites: GEOL 1200, CHEM 1083-84,, or permission of instructor

ES 3264 Invertebrate Paleontology (4)
A study of the classification, relationships, and evolutionary history of fossils. Emphasis is placed on paleoecological relationships. (3hr. lec./3 hr. lab.)
Prerequisites: ES 1200 or permission of the instructor

ES 3266 Hydrology (4)
To provide an overview, at the junior/senior undergraduate level, of the use of chemical principles to understand the geochemistry of natural waters and anthropogenic effects on these waters. Emphasis will be on quantitative problem-solving. (3hr. lec./3 hr. lab.)
Prerequisites: CHEM 1083; ES 1200 or permission of instructor

ES 4101 Physical Climatology (4)
The identification, examination, description, and study of the experimental and predictive climate – particularly with regard to microclimatic behaviors, responses, and interactions among relevant environmental and life systems. (3hr. lec./3 hr. lab.)
Prerequisites: ES 3101

ES 4200 Remote Sensing (4)
Theory, technology and methods of remote sensing for observing the earth. Application of remote sensing to problems in the earth sciences including resource exploration, weather forecasting, environmental monitoring and land use. (3 hr lec./3 hr lab.) (SP)

Prerequisites: Eight hours of Geoscience, MATH 1054, PHYS 2091 or PHYS 2095

ES 4980 Environmental Internship (3)
A work-study opportunity to obtain practical experience with the multidisciplinary nature of environmental problems, relate course material to these problems, and discern decision-making processes associated with their solution.
Prerequisites: Permission of the department and the supervising instructor.

ES 4981 Environmental Issues Seminar (3)
Contemporary environmental topics are explored from a scientific and societal perspective. Students perform literature search, gather scientific information and study societal impact individually, in teams, and as part of a group, and present in written and oral form, issues of local, national, and global concern. (E)
Prerequisites: Senior Standing in Earth Science

GEOGRAPHY COURSES

GEOG 2010 World Geography (3)
World geography from the point of view of how physical features, resources, climates, and economic and political systems help to shape human culture. Using geographic tools to explore current themes and problems in various world geographic regions. (E)
Approved General Education Distribution Course

GEOG 2020 Conservation of Natural Resources (3)
A study of relationships among natural resources, technological development, population growth and levels of living as a means of exploring and evaluating the foundations of environmental management and conservation.
Prerequisite: Three hours of geography or science or permission of instructor.

GEOG 3110 Practical Geographic Skills (3)
The practical skills and techniques of the geographer, such as those developed for studies in the field and the library, and for graphic, cartographic, written and oral presentation of geographic information.
Prerequisite: Six hours of geography or permission of instructor.

GEOG 3410 Urban Geography (3)
An examination of urban settlements with special emphasis on the practical application of modern geographic theories to the contemporary urban situation.
Prerequisite: Six hours of geography or permission of instructor.

GEOG 3950 The Geography of New Jersey (3)
The various geographic aspects of the State of New Jersey: physical environment, cultural diversity, resource base, and economic pattern. Special emphasis placed on the high degree of urbanization which characterizes New Jersey. Field observations included.

ECO 3730 Economic Geography (3)
(See Economics and Finance Department for course description.)

GEOLOGY COURSES

GEOL 1200 Introduction to Geology (4)
Processes at work upon and within the earth; earth history; rocks, minerals, and fossils; historical development of geology as a science. (3 hr. lec./3 hr. lab.) (E)
Approved General Education Distribution Course

GEOL 1205 Mineral and Fossil Fuel Resources (3)
Minerals and fossil fuels, supplies and their use. Past use and future trends in light of depletion, recycling and technological advances. Does not fulfill major requirements.

GEOL 3261 Mineralogy (4)
An introductory study of minerals; their morphology, internal structure, origin, occurrence, and properties. (3 hr. lec./3 hr. lab.) (FO)
Prerequisites: GEOL 1200 and CHEM 1083-1084, or permission of the instructor.

GEOL 3264 Invertebrate Paleontology (4)
A study of the classification, relationships, and evolutionary history of fossils. Emphasis is placed on paleoecological relationships. (3 hr. lec./3 hr. lab.) (SP)
Prerequisite: GEOL 1200 or permission of the instructor.

GEOL 3265 Geomorphology (4)
Analysis of the various land forms of the Earth's surface in terms of their nature, origin, and evolution. The influence of the different geologic and climatic environments upon the development of land form. Map interpretation. (3 hr. lec./3 hr. lab.) (SO)
Prerequisite: GEOL 1200 or permission of the instructor.

GEOL 3266 Hydrology (4)
The distribution and movement of water with emphasis given to surface waters, their relation to the fluvial aspects of geomorphology and to the impact of man on the hydrologic cycle. (3 hr. lec./3 hr. lab.) (SP)
Prerequisite: GEOL 1200 or METR 1300 or permission of instructor.

GEOL 3281 Field Geology (2)
Field practice in the methods of geological mapping including the use of pace, compass, and clinometer surveys, the plane table and alidade, and aerial photographs. (FE)
Prerequisite: GEOL 1200 or permission of the instructor.

GEOL 4252 Field Geology II (2)
Field conference and studies of one or more selected areas with written reports and maps. Additional expenses may be incurred. (SO)
Prerequisites: GEOL 3261, 3263, 4266 (may be taken concurrently), or permission of the instructor.

GEOL 4263 Optical Mineralogy (4)
Mineral identification through the use of the petrographic microscope by immersion and thin-section methods. (3 hr. lec./3 hr. lab.)
Prerequisite: GEOL 3261 or permission of the instructor.

GEOL 4265 Petrology (4)
A study of the petrologic processes at work upon and within the crust of the earth that produce and

modify rock bodies. (3 hr. lec./3 hr. lab.)
Prerequisite: GEOL 3261 or permission of the instructor.

GEOL 4266 Stratigraphy and Sedimentation (4)
Origin and characteristics of sediment grains; sedimentation processes; diagenesis and rock classification; correlation of stratigraphic units; sedimentary environments and their deposits. (3 hr. lec./3 hr. lab.) (SO)
Prerequisite: Twelve hours of geology or permission of the instructor.

METEOROLOGY COURSES

METR 1300 Introduction to Meteorology (4)
An introductory study of the atmosphere including historical perspectives, weather elements, instrumentation, fronts, air masses, cyclones and anticyclones, severe weather, weather analysis, weather prediction, pollution, ozone layer depletion, acid rain, global warming. (3 hr. lec./3 hr. lab.) (E)
Approved General Education Distribution Course

METR 2300 Climatology (3)
Global distribution of the principal climatic elements with emphasis on the physical causes of climate. Theories regarding climatic change will also be discussed.
Prerequisite: METR 1300 or permission of the instructor.

METR 2301 Climatology Laboratory (1)
Techniques in handling climatological data.
Corequisite: METR 2300 or permission of the instructor.

METR 2360 Weather Analysis (3)
Familiarization with daily weather data and NCEP forecasting products; plotting and analyzing of weather maps; weather map discussion; weather forecasting; daily weather observations. (2 hr. lec./3 hr. lab.)
Prerequisite: METR 1300.

METR 3360 Air Pollution (3)
An examination of the problem of air pollution as seen principally from a meteorological viewpoint. Topics include the terminology and nomenclature of air pollution, the history of air pollution, types of pollutants in the atmosphere, atmospheric dispersion of pollutants, methods of sampling and control, trends in legislation, and cost benefit and risk analysis.
Prerequisites: METR 1300 and Math 1054.

METR 3370 Atmospheric Dynamics (4)
A mathematical formulation of the physical laws which govern weather processes and atmospheric motion. (3 hr. lec./3 hr. lab.) (FE)
Prerequisites: METR 1300, PHYS 2096, MATH 2412 or permission of instructor.

METR 3371 Atmospheric Thermodynamics (4)
The application of thermodynamic principles to the atmosphere: heat, work, internal energy and available energy of the atmosphere; the thermodynamics of water vapor and moist air; dry and moist thermodynamic processes; hydrostatic equilibrium and altimetry; atmosphere stability and convection. (3 hr. lec./3 hr. lab.) (FE)
Prerequisites: METR 1300, PHYS 2096, MATH 2412 or permission of instructor.

METR 3372 Physical Meteorology (3)
An examination of the physics of atmospheric phenomena. Topics include wave theory, transfer processes, cloud physics, atmospheric radiation, and remote sensing. Emphasis is placed on the application of physical theory to obtain a better understanding of atmospheric phenomena.
Prerequisites: MATH 2412, METR 1300, PHYS 2096.

METR 3380 Meteorological Instrumentation (4)
Familiarization with the various instruments used to observe the atmosphere; principles of operation, instrument calibration and maintenance, error analysis, observing systems. (3 hr. lec./3 hr. lab.)
Prerequisites: METR 1300 and MATH 1054.

METR 4370 Advanced Atmospheric Dynamics (3)
Circulation, vorticity, and divergence theorems, theory of Rossby Waves, pressure coordinates, turbulence and diffusion, energy conversions, numerical weather prediction, the general circulation. (SO)
Prerequisites: METR 3370 and METR 3371 or permission of the instructor.

OCEANOGRAPHY COURSES

OCEAN 2400 Introduction to Oceanography (4)
A survey of modern oceanography and including the biological, geological, chemical and physical characteristics of the ocean and, methods and applications of sciences to the study of the oceans. (3 hr. lec./3 hr. lab.) (E)
Prerequisites: MATH 1000, 4 credit lab science course or permission of instructor.

OCEAN 3400 Global Change and the Ocean (3)
The ocean's role in regulating climate and the interaction between the ocean, global change, and society. Oceanographic records of change to illustrate the natural variability of ocean circulation, sea-level, ocean acidification, organism migrations, invasions and mass extinctions through geologic time. Evidence of anthropogenic forcing, future predictions, and potential solutions for society. (SO)
Prerequisites: OCEAN 2400

OCEAN 3600 Coral Reefs and Coastal Systems (4)
Coral reef and coastal system function and form; hands-on study of the biodiversity, biogeography, ecological interactions, current threats and protection. (3 hr. lec./3 hr. lab.) (SP)

OCEAN 4454 Marine Geology (4)
Introduction to the geology of the oceans, including tectonics, geochemistry, shoreline processes, stratigraphy, sedimentology, and related subjects. (3 hr. lec./3 hr. lab.)
Prerequisite: OCEAN 3453 or permission of instructor.

OCEAN 4455 Chemical Oceanography (4)
Study of the properties and interactions of chemical substances present in the marine environment, including their reactions at the air-sea and sea-bottom interfaces. (3 hr. lec./3 hr. lab.)
Prerequisite: OCEAN 3453 or permission of instructor.

OCEAN 4600 Marine Conservation (3)
The science behind maintaining the ocean's diversity; historical context of current marine conservation concepts; marine population and system dynamics; threats to marine diversity; and conflicts between human exploitation, fisheries, and ecosystem function; design, function and policy of marine protected areas and reserves by non-governmental and governmental agencies. (FA)
Prerequisite: 2 lab science courses

OCEAN 4601 Field Methods in Marine Research (4)
Field studies and research in the marine environment that integrate principles, techniques, and information for the multidisciplinary study of marine environments. Students participate in design; conduct a field research project to sample marine environments using oceanographic, geological, and a variety of marine science techniques. (SP)
Corequisite: OCEAN 4600 or permission of instructor.

OCEAN 4602 Marine Resource Management (3)
The science and politics of protecting the world's ocean's resources and the role of marine protected areas (MPAs) in conserving living marine resources. The rapidly developing science, rationale, and controversies surrounding MPAs, fisheries management, ecosystem-based management strategies, and the collective societal impacts of protection.
Prerequisites : 2 lab science courses and permission of instructor

RESEARCH, SPECIAL TOPICS AND SEMINARS

ES 3801-3802 Special Topics in Earth Science (1, 2)
Intensive study of specific topics of an advanced nature in the Earth Science which are not studied in regular courses. Topics will be announced by the department. (E)
Prerequisite: Permission of the instructor.

ES 4901-4902 Special Topics in Earth Science (3,3)
Intensive study of specific topics of an advanced nature in the earth sciences. Subject of a semester's work varies. (E)
Prerequisite: Permission of the instructor.

ES 4953, 4954 Earth Science Seminar I and II (2,2)
The student is asked to pursue a problem of current interest in earth science. The student prepares and presents a paper to a seminar group. Following the presentation, the speaker serves as moderator in a discussion of the subjects.
Prerequisite: Senior standing in the Department of Geology and Meteorology.
Writing Emphasis Course

ES 4971, 2, 3 Independent Research in Earth Science (1, 2, 3)
Each student is asked to pursue a specific current research problem in earth science under the supervision of a faculty member. Approximately forty-five hours of work under the direction of the faculty member is required for each credit hour. May be repeated for credit, however, only 3 credits may be used to fulfill major elective requirement. (E)
Prerequisites: Explicit written permission of sponsoring faculty member and department chairperson.

HONORS PROGRAM

The Honors Program in Earth and Planetary Environments had been developed for the twofold purposes of recognition of superior achievement and the encouragement of meaningful original research by senior majors. In order to be eligible for admission to the honors program, the student must have maintained a grade-point average of 3.0 in all courses through the end of the junior year as well as a grade-point average of 3.0 in all earth science courses through the end of the junior year.

ES 4963,4964 Honors Research Seminar in Earth Science I and II (2,2)
Individual research of an original nature under the supervision of a research sponsor. Results of the work to be presented as a seminar. May be taken in place of but not in addition to ES 4953, 4954. Following the presentation, the speaker serves as moderator in a discussion of the subjects. (E)
Prerequisite: Earth Science major of senior standing, with a grade point average of 3.0 overall as well as in Earth Science courses, admitted upon written nomination by a departmental research sponsor and written recommendation by one other departmental faculty member.
Writing Emphasis Course

INTERDISCIPLINARY COURSES

The following are found in the Interdisciplinary Courses. (See Index)

ID 3101-3102 Seminar in Environmental Studies I and II

ID 4101-4102 Seminar in Environmental Studies I and II

SESS Biological Sciences (Environmental)

The SESS students in this program will develop a strong foundation in the Biological Sciences while developing detailed expertise in Environmental Sciences, and will apply their knowledge to the environment around them through specialized course work and individual and team-based scientific research projects.

The SESS Environmental Biology graduate will be prepared to pursue advanced graduate or professional degrees within the many areas of the environmental and life sciences (for example, biotechnology, molecular biology, environmental biology, biomedical research, ecology and behavior, microbiology, medicine, etc.) and environmental consulting.

Students interested in careers in local, state, and federal government agencies will be prepared for opportunities associated with areas such as planning and development of growth, natural resource management and conservation, environmental monitoring and assessment. Students interested in the private and public research sector will be prepared for careers in medicine, the regional biotechnology, other areas of health care, and pharmaceutical industries.

SESS students can receive a degree in the following Degree Program Options:

B.S. Degree, Biology, Environmental Biology Option

B.S. DEGREE BIOLOGY

OPTION: ENVIRONMENTAL BIOLOGY

GENERAL EDUCATION 35

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

**MATH 1054 Precalculus 3

COMM 1402 Speech Communication
Critical Citizenship 3

GE 2024 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 22

Humanities 6

*ENG 2403 World Literature 3

Select one course from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 6

*HIST 1602 Worlds of History 3

Select one course from below:

Economics or Geography 3

Political Science 3

Psychology 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 7

**MATH 1016 Statistics 3

CHEM 1083 Chemistry I 4

MAJOR/GE CAPSTONE 3

SUST 4300 Independent Practicum in Sustainability 3

*Required Distribution Course

**Course required by SESS

ADDITIONAL REQUIREMENTS 32

BIO 1300 Biology I 4

BIO 1400 Biology II 4

BIO 3709 Genetics 4

CHEM 1084 Chemistry II 4

CHEM 2180 Principles of Organic Chemistry 4

MATH 2415 Calculus I 4

PHYS 2091 General Physics I 4

PHYS 2092 General Physics II 4

MAJOR REQUIREMENTS 28-29

ENV 1000 Introduction to Environmental Science 3

ENV 2000 Evolution and Biodiversity 4

ENV 2100 Ecosystem Science 4

ENV 3051 Field Biology: Terrestrial Systems or OCEN 4601 Methods in Marine Research 4

ENV 3100 Principles of Environmental Soil Science 4

ENV 3201 Biodiversity Assessment 4

ENV 4210 Conservation Biology 4

ENV 4961 Independent Study in SESS (1 credit) or ENV 4962 Independent Study in SESS (2 credits) 1-2

PROGRAM FOCUS-RELATED ELECTIVES 16-19

To be selected with advisement from approved program list maintained in the School of Environmental and Sustainability Sciences and in consultation with the Program Coordinator. At least 50% must be at the 3000-4000 level.

FREE ELECTIVES 5-9

TOTAL 120

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

ENVIRONMENTAL BIOLOGY COURSES

ENVIRONMENTAL SCIENCE COURSES

ENV 1000 Introduction to Environmental Science (3)

An introduction to the study of the environment as an inclusive system that is connected to the diverse scientific fields of biology, chemistry, geology, hydrology, atmospheric science, climatology and geography. Processes of data collection, sampling, analysis, mapping, modeling and predicting are explored. (E)

Prerequisites: None

ENV 1050 Introduction to Environmental Research (3)

An introduction to the science and practice of environmental research. Students learn about the scientific method through experiential learning in an outdoor and laboratory environment. This course may be taught as a Travel Learn experience or in the environments in an around New Jersey. Students will work in teams to design an implement a research project. 3hr lecture/learning experience.

Prerequisites: None

ENV 1100 Foundations of Environmental Science (4)

An introduction to the study of environmental science that connects science, technology, economics and policy. Processes of data collection, sampling, analysis, mapping, modeling and predicting are explored. This course serves as a GE laboratory science option for Kean students. Credit cannot be given for both ENV 1000 and ENV 1100. (3 hr lec./3 hr lab.)

Prerequisites: None

ENV 2000 Evolution and Biodiversity (4)

A consideration of the principles and methodologies of evolutionary thought, and a reconstruction of the history of life. Through an understanding of micro- and macro evolutionary mechanisms, students will analyze the diversification of earth's biota and the influence of current ecological conditions on possible future trajectories. Labs emphasize comparative biology through morphological and computer-based phylogenetic analyses (3 hr. lecture, 3 hr. lab).

Prerequisites: ENV 1000 and BIO 1400

ENV 2100 Ecosystem Science (4)

This course provides an introduction to ecosystem science, focusing on foundations and applications of ecology. Using tools discussed in class and lab, students will begin to understand species interactions in biological communities and relationships of these communities to environmental factors. Human impacts on the environment are examined, as are methods used to conserve and restore species and ecosystems. Laboratories stress the scientific method applied in the field, data collection, and species identification. This course is a major requirement for Biology Majors (B.S.) in the School of Environmental and Sustainability Sciences who are in the Environmental Biology track (3 hours lecture, 3 hours lab).

Prerequisites: ENV 1000 and BIO 1400

ENV 3051 Field Biology (4)

Field-based course providing the opportunity to collect biological data in a terrestrial ecosystem while applying current field research methods. Emphasis will be on observation, species identification, field notes, sampling methods, observational and experimental study design, mapping, data analysis, and scientific writing. (3 hours lecture, 3 hours lab).

Pre-requisites: GE 2024

ENV 3100 Principles of Environmental Soil Science (4)

An introduction to the chemical, physical, and biological properties of soils; the origin, classification, and distribution of soils and their influence on people and food production; the management and conservation of soils; and the environmental impact of soil use. 3 hours of lecture and 3 hours of lab.

Prerequisites: CHEM 1084, ENV 1000 and GE 2024

ENV 3201 Biodiversity (4)

An introduction to the concepts, methods and significance of biodiversity science. Case studies and readings from the primary literature are used to apply the ideas and analytical techniques introduced in lecture. This course is equivalent to SUST 3310.

Prerequisites: GE 2024

ENV 3230 Urban Ecology (3)

An examination of ecological processes in human-dominated landscapes from the scientific, historical and cultural perspectives. Human influence on, and response to, natural systems is emphasized. Readings from the primary literature are used to illustrate current research trends and methodologies. This course is equivalent to SUST 3330 (3 hr. lecture).

Prerequisites: GE 2024 or permission of instructor

ENV 3250 Medicinal Botany (3)

Explores the uses of plants as medicine, ranging from traditional indigenous approaches to modern western pharmaceuticals. The biology and use of medicinal plants for treating everything from the common cold to cancer is investigated. (3 credits of lecture).

Prerequisite: GE 2024 or Permission of Instructor.

ENV 3380 Environmental Instrumentation (4)

Introduction to sampling techniques and analytical methods to measure environmental contamination in air, water, soils, and ecology. Emphasis on instrument selection and quality control, including documentation, calibration, and sample management. (3hr. lec./3 hr. lab.)

Prerequisite: CHEM 1084, METR 1300, MATH 1054, and PHYS 2095; or Permission of Instructor.

ENV 3400 Environmental Oceanography (4)

The ocean's role in regulating climate and the interaction between the ocean, global change and society. Oceanographic records of change illustrate the natural variability of ocean circulation, sea-level, ocean acidification, organism migrations, invasions and mass extinctions through geologic time. (3 hours lecture, 3 hours lab).

Pre-requisites: 2000 level science course

ENV 3600 Coral Reefs and Coastal Systems (4)

Coral reef and coastal system function and form; hands-on study of the biodiversity, biogeography, ecological interactions, current threats and protection.

Course requires field excursions. (3 hours lecture, 3 hours lab).

Pre-requisites: 2000 level science course

ENV 3720 Entomology (4)

An introduction to the biology of insects and related arthropods. Lectures integrate ecology, evolution and behavior with functional biology and focus on insects as examples of fundamental concepts. Consideration is also given to effect of insects on the global economy and to sustainable solutions to these problems. Laboratories stress collection, identification and preservation of arthropod specimens. Fieldwork and the preparation of a collection are required. (3 hours lecture, 3 hours lab).

Prerequisites: ENV 3201 or BIOS 3201 or SUST 3310.

ENV 4103 Environmental Hazards (4)

A systematic study of rapid-onset events such as seismic, mass movement, atmospheric, hydrological, technological and biophysical hazards that directly threaten human life and communities. Examination of environmental hazards from the perspective of both earth and social sciences.. (3 hours lecture, 3 hours lab).

Pre-requisites: ES 2101 or permission of instructor

ENV 4210 Conservation Ecology (4)

This course examines the historical and ethical background of the conservation movement and the science of conservation biology. It covers various aspects that must be considered in conservation including genetic, species, and ecosystem dynamics and diversity. Connections are made between industrial development and the natural world, relating societal impacts on plants and wildlife to the goals of conservation. Parts of the course will be presented using a Problem-based Learning (PBL) format involving student-led case studies based on real issues.

Prerequisites: ENV 3201 or BIOS 3201 or SUST 3310 or BIO 3614

ENV 4435 Behavioral Ecology (3)

An introduction to the behavior of animals in natural settings, with emphasis on the ecological and evolutionary levels of organization. Topics include communication, foraging, defense, mating systems, social biology, and research methodology. Lectures stress analytical models, hypothesis testing and methodology. This course is a major elective for Environmental Biology majors (BS) in the School of Environmental and Sustainability Sciences.

Prerequisites: BIO 3614 or permission of instructor.

ENV 4600 Plant-Animal Interactions (3)

An examination of how plant and animals interact through evolutionary time and thereby shape communities and ecosystems. Topics include coevolutionary theory, herbivory, plant defense strategies, sequestration of plant compounds, animal agriculture, pollination ecology and seed dispersal. (3 hr. lecture).

Prerequisites: BIO 3614

ENV 4601 Marine Conservation (3)

The science behind maintaining the ocean's diversity; historical context of current marine conservation concepts; marine population and system dynamics; threats to marine diversity; and conflicts between human exploitation, fisheries, and ecosystem function; design, function and policy of marine protected areas and reserves by non-governmental and governmental agencies.

Prerequisites: 3000 level science course

ENV 4605 Field Methods in Marine Research (4)

Field studies and research in the marine environment that integrates principles, techniques, and information for the multidisciplinary study of marine environments. Students participate in design; conduct a field research project to sample marine environments using oceanographic, geological, biological and a variety of environmental science techniques.

Prerequisite: 3000 Level Science Course.

ENV 4710 Physiological Ecology (3)

A consideration of the varied strategies by which animals have solved the functional challenges of life, including homeostasis, locomotion, feeding, functional control, and reproduction. Lectures emphasize the effects of habitat, ecology and historical contingency on the evolution of physiological systems.

Prerequisites: BIO 3614

ENV 4971 Independent Study Research (1)

A field, laboratory, library and/or policy investigation of a basic or applied environmental issue performed independently by the student under the supervision of a faculty research mentor. ENV 4961 may be repeated, or combined with ENV 4962 or ENV 4963, to a total of four credits toward a SESS program's major elective requirement. Prerequisites: Sophomore, Junior or Senior status in the School of Environmental and Sustainability Sciences, and permission of instructor. Faculty mentors may stipulate additional course prerequisites related to their disciplines.

Prerequisites: Sophomore, Junior or Senior status in the School of Environmental and Sustainability Sciences, and permission of instructor. Faculty mentors may stipulate additional course prerequisites related to their disciplines.

ENV 4972 Independent Study Research (2)

A field, laboratory, library and/or policy investigation of a basic or applied environmental issue performed independently by the student under the supervision of a faculty research mentor. ENV 4962 may be repeated, or combined with ENV 4961, to a total of four credits toward a SESS program's major elective requirement.

Prerequisites: Junior or Senior status in the School of Environmental and Sustainability Sciences, and permission of instructor. Faculty mentors may stipulate additional course prerequisites related to their disciplines.

ENV 4973 Independent Study Research (3)
A field, laboratory, library and/or policy investigation of a basic or applied environmental issue performed independently by the student under the supervision of a faculty research mentor. ENV 4963 may combined with ENV 4961 to a total of four credits toward a SESS program's major elective requirement.
Prerequisites: Junior or Senior status in the School of Environmental and Sustainability Sciences, and permission of instructor. Faculty mentors may stipulate course prerequisites related to their disciplines

ENV 4974 Independent Study Research (4)
A field, laboratory, library and/or policy investigation of a basic or applied environmental issue performed independently by the student under the supervision of a faculty research mentor. ENV 4963 may combined with ENV 4961 to a total of four credits toward a SESS program's major elective requirement.
Prerequisites: Junior or Senior status in the School of Environmental and Sustainability Sciences, and permission of instructor. Faculty mentors may stipulate course prerequisites related to their disciplines.

BIO COURSES

BIO 2500 Principles of Botany (4)
Structure, function, development, reproduction, and evolution of plants. (3 hr. Lec./3hr. lab.) (E)
Prerequisite: BIO 1300 or BIO 2200 or equivalent or permission of instructor.

BIO 3305 Principles of Microbiology (4)
A study of microorganisms with emphasis on bacteria. Morphology, physiology and metabolism, ecology, taxonomy and methods of culture and identification of some common microorganisms. (3 hr. lec./3 hr. lab.) (E)
Prerequisite: BIO 2400 or permission of instructor.

BIO 3400 Zoology: Form and Function (4)
The evolution of invertebrates and vertebrates using principles of comparative anatomy and physiology. Morphological and functional changes will be correlated with varied environments and adaptations that gave rise to a diversity of life forms. (3 hr. lec./3 hr. lab.) (E)
Prerequisites: BIO 1400 or BIO 2400 and CHEM 1084, or permission of instructor.

BIO 3403-3404 -Anatomy and Physiology I and II (4,4)
An integrated understanding of the structures (both gross and microscopic) and the functions of various body systems. Laboratories are synchronized with lecture materials and include exercises using prosected models and other specimens. BIO 3403 is the study of the organization of the human body, introductory chemistry, cells, tissues, the integumentary system, skeletal systems and articulations, muscular system and the nervous system. (3 hr. lec./3 hr. lab.) (E)

BIO 3404 is a continuation of BIO 3403 and includes the study of the endocrine system, cardiovascular system, the lymphatic system, the respiratory system, the digestive system, the urinary system and the reproductive system. (3 hr. lec./3 hr. lab.)
Credit not given for both BIO 2402/ BIO 2409 and BIO 3403-3404. (E)
Prerequisites: BIO 2400 and CHEM 2180 or CHEM 2581 or permission of instructor.
BIO 3403 prerequisite for BIO 3404.

BIO 3535 Field Botany (3)
Principles of field identification of local flora with emphasis on use and construction of keys. Two all day Saturday field trips. (E) (Kean Ocean)
Prerequisite: BIO 2500 or BIO 2601 or permission of instructor.

BIO 3614 Principles of Ecology (4)
Factors affecting the distribution and abundance of organisms. Basic ecology is examined at the organismal, population and ecosystem levels. Human impact on the environment. (3 hr. lec./3 hr. lab.) (E)
Prerequisite: BIO 1300 or permission of instructor. Writing Emphasis Course

BIO 4105 Essentials of Biochemistry (4)
An introduction to the chemistry of biologically important compounds and their relationship to the metabolic activity of living cells. Laboratory activities will utilize the methods and techniques currently used in biochemical research. (3 hr. lec./3hr. lab.) (E)
Prerequisites: One semester of Organic Chemistry, BIO 2400, or permission of instructor.

BIO 4575 Plant Physiology (4)
A study of physiological mechanisms involved in the germination, growth, development and reproduction of green plants, including water relations, carbohydrate metabolism, translocation, photosynthesis, mineral nutrition, growth regulators, and growth and development. (3 hr. lec./3 hr. lab.)
Prerequisites: BIO 1400 or BIO 2400 and BIO 2500.

BIO 4615 Applied Ecology (4)
Examination of environmental problems, solutions and management dealt with by biologists in government and industry. Wildlife management, conservation biology and industrial ecology. Student must provide own transportation for some labs. (3 hr. lec./3 hr. lab.) (SP)
Prerequisite: BIO 3614 or equivalent.

EARTH SCIENCE COURSES

METR 3380 Meteorological Instrumentation (4)
Familiarization with the various instruments used to observe the atmosphere; principles of operation, instrument calibration and maintenance, error analysis, observing systems. (3 hr. lec./3 hr. lab.)
Prerequisites: METR 1300 and MATH 1054.

ATMS 4101 Physical Climatology (4)
The identification, examination, description, and study of the experimental and predictive climate – particularly with regard to microclimatic behaviors, responses, and interactions among relevant environmental and life systems. Design and response to physical climate systems, including cost/loss and/or cost/benefit analyses are related to risk factors regionally and locally. Methods include distributional and spatio-temporal analyses to depict, visualize, and predict cause and effect of interactive and competing systems in terms of hazards and planning. Reliability and various applications are made to unique situations for management of physical environments with life systems. (3 hrs lecture, 3 hours lab). This course is a Major requirement for B.S. in Earth Science
Prerequisites: ATMS 3101, PHYS

ES 1101 Introduction to Earth and Geographical Systems (4)
A study of the earth system from the perspective of a coupled natural and human system. Examination of the physical nature of the system components and their interactions. Fundamental skills in observation, visualization, quantitative methods for diagnosis and prediction of impacts. (3 hrs lecture, 3 hours lab). This course is a Major requirement for B.S. in Earth Science. (FA)
Prerequisites: MATH 1000

ES 2101 GeoHydro Systems (4)
An introduction to earth's geo-hydro systems from the perspective of system analysis. Examination of the dynamics of the systems, human-environment interactions, resource management, and connections with the biological and chemical systems. (3hr. lec./3 hr. lab.)
Prerequisites: ES 1101, MATH 2415, or permission of instructor

ES 2400 Introduction to Oceanography(4)
A survey of modern oceanography and including the biological, geological, chemical and physical characteristics of the ocean and, methods and applications of sciences to the study of the oceans. (3hr. lec./3 hr. lab.)
Prerequisites: 4 Credit lab science class or permission of instructor

ES 3000 Global Climate Change and Society (4)
Analysis of evidence of past climate change, present climate variability, and trends related to future climate fluctuation. Examination of major variables controlling climate at a range of temporal scales. Study of the human role in the global climate change, and the response of the environment to such changes, including effects such as ecosystem changes, ocean current changes, and sea level rise. (3 hr. lect./3 hr. lab) (FA)
Prerequisites: METR 1300 and one 2000 level course (GEOG, OCEN)

ES 3010 Data Analysis and Modeling in Geoscience (4)
Overview of quantitative skills that is essential in the study of modern earth system science. Introduction to the principles of experimental design, data collection, data analysis, data visualization. Using modern analysis software and tools to facilitate data interpretation, modeling and theory development. (3 hr lec. / 3 hr lab.) (SO)
Prerequisites: MATH 1010 and four hours of Geoscience or permission of instructor

ES 3101 Atmospheric Systems (4)
Atmospheric dynamics in relation to environmental and life systems based on fundamental principles using observational data, conceptualization of atmospheric features, forces, processes, and analysis.
Prerequisite: ES 2101 and MATH 2415, or permission of instructor.

- ES 3200 Geographic Information Systems in Geoscience (4)**
Principles and applications of Geographic Information Systems (GIS). Fundamentals of digital cartography, spatial analysis, digital data. Acquiring, assembling, geo-referencing field data; topographic maps; images from remote sensing. Emphasis on Earth and Human Systems; population, urban development and land use. (3 hr lec./3 hr lab.) (SP)
Prerequisites: MATH 1054, four hours of Geoscience or permission of instructor
- ES 3261 Mineralogy (4)**
To apply mineralogic principles to environmental issues that deal with materials; to use mineralogic principles not only to identify environmental concerns, but also to work toward finding solutions to those problems; to develop a knowledge base for some recognizable environmentally important mineral groups to write coherent descriptions of materials and discussions of issues. (3hr. lec./3 hr. lab.)
Prerequisites: GEOL 1200, CHEM 1083-84,, or permission of instructor
- ES 3264 Invertebrate Paleontology (4)**
A study of the classification, relationships, and evolutionary history of fossils. Emphasis is placed on paleoecological relationships. (3hr. lec./3 hr. lab.)
Prerequisites: ES 1200 or permission of the instructor
- ES 3266 Hydrology (4)**
To provide an overview, at the junior/senior undergraduate level, of the use of chemical principles to understand the geochemistry of natural waters and anthropogenic effects on these waters. Emphasis will be on quantitative problem-solving. (3hr. lec./3 hr. lab.)
Prerequisites: CHEM 1083; ES 1200 or permission of instructor
- ES 3801-3802 Special Topics in Earth Science (1, 2)**
Intensive study of specific topics of an advanced nature in the Earth Science which are not studied in regular courses. Topics will be announced by the department. (E)
Prerequisite: Permission of the instructor.
- ES 4101 Physical Climatology (4)**
The identification, examination, description, and study of the experimental and predictive climate – particularly with regard to microclimatic behaviors, responses, and interactions among relevant environmental and life systems. (3hr. lec./3 hr. lab.)
Prerequisites: ES 3101
- ES 4200 Remote Sensing (4)**
Theory, technology and methods of remote sensing for observing the earth. Application of remote sensing to problems in the earth sciences including resource exploration, weather forecasting, environmental monitoring and land use. (3 hr lec./3 hr lab.) (SP)
Prerequisites: Eight hours of Geoscience, MATH 1054, PHYS 2091 or PHYS 2095
- ES 4980 Environmental Internship (3)**
A work-study opportunity to obtain practical experience with the multidisciplinary nature of environmental problems, relate course material to these problems, and discern decision-making processes associated with their solution.
Prerequisites: Permission of the department and the supervising instructor.
- ES 4981 Environmental Issues Seminar (3)**
Contemporary environmental topics are explored from a scientific and societal perspective. Students perform literature search, gather scientific information and study societal impact individually, in teams, and as part of a group, and present in written and oral form, issues of local, national, and global concern. (E)
Prerequisites: Senior Standing in Earth Science
- ES 4901-4902 Special Topics in Earth Science (3,3)**
Intensive study of specific topics of an advanced nature in the earth sciences. Subject of a semester's work varies. (E)
Prerequisite: Permission of the instructor.
- GEOL 1205 Mineral and Fossil Fuel Resources (3)**
Minerals and fossil fuels, supplies and their use. Past use and future trends in light of depletion, recycling and technological advances. Does not fulfill major requirements.
- GEOS 1100 Introduction to Earth and Geographical Systems (4)**
A study of the earth system from the perspective of a coupled natural and human system. Examination of the physical nature of the system components and their interactions. Fundamental skills in observation, visualization, quantitative methods for diagnosis and prediction of impacts. (3 hrs lecture, 3 hours lab). This course is a Major requirement for B.S. in Earth Science. (FA)
Prerequisites: MATH 1000
- GEOS 2101 Geo-hydro Systems (4)**
A study of the earth's geo-hydro systems from the perspective of system analysis. Examination of the dynamics of the systems, human-environment interactions, resource management, and connections with the biological and chemical systems. (3 hrs lecture, 3 hours lab). This course is a Major requirement for B.S. in Earth Science. (SP)
Prerequisites: SELS 1100, MATH 2411 2095
- GEOS 4103 Environmental Hazards (4)**
A systematic study of rapid-onset events such as seismic, mass movement, atmospheric, hydrological, technological and biophysical hazards that directly threaten human life and communities. Examination of environmental hazards from the perspective of both earth and social sciences. Fundamental skills in analytical, mapping, decision support tools and risk assessment for practical disaster management. (FO)
Prerequisites: GEOS 2101 and SELS 3101 or permission of instructor
- GEOS 4201 Urban Geographic Systems (4)**
A study of the urban geographic systems from the perspective of research and spatial analysis. Examination of the urban and city concepts and processes, internal structure and system of cities, segregation, migration, industrial geography, urban development and environmental problems. Fundamental skills in applied GIS and spatial analysis for urban geographic analysis, urban environmental assessment, urban and regional planning. (SO)
Prerequisites: ES 3200
- METR 2300 Climatology (3)**
Global distribution of the principal climatic elements with emphasis on the physical causes of climate. Theories regarding climatic change will also be discussed.
Prerequisite: METR 1300 or permission of the instructor.
- METR 2301 Climatology Laboratory (1)**
Techniques in handling climatological data.
Corequisite: METR 2300 or permission of the instructor.
- METR 2360 Weather Analysis (3)**
Familiarization with daily weather data and NCEP forecasting products; plotting and analyzing of weather maps; weather map discussion; weather forecasting; daily weather observations. (2 hr. lec./3 hr. lab.)
Prerequisite: METR 1300.
- METR 3360 Air Pollution (3)**
An examination of the problem of air pollution as seen principally from a meteorological viewpoint. Topics include the terminology and nomenclature of air pollution, the history of air pollution, types of pollutants in the atmosphere, atmospheric dispersion of pollutants, methods of sampling and control, trends in legislation, and cost benefit and risk analysis.
Prerequisites: METR 1300 and Math 1054.
- OCEAN 3400 Global Change and the Ocean (3)**
The ocean's role in regulating climate and the interaction between the ocean, global change, and society. Oceanographic records of change to illustrate the natural variability of ocean circulation, sea-level, ocean acidification, organism migrations, invasions and mass extinctions through geologic time. Evidence of anthropogenic forcing, future predictions, and potential solutions for society. (SO)
Prerequisites: OCEAN 2400
- OCEAN 3600 Coral Reefs and Coastal Systems (4)**
Coral reef and coastal system function and form; hands-on study of the biodiversity, biogeography, ecological interactions, current threats and protection. (3 hr. lec./3 hr. lab.) (SP)
- OCEAN 4600 Marine Conservation (3)**
The science behind maintaining the ocean's diversity; historical context of current marine conservation concepts; marine population and system dynamics; threats to marine diversity; and conflicts between human exploitation, fisheries, and ecosystem function; design, function and policy of marine protected areas and reserves by non-governmental and governmental agencies. (FA)
Prerequisite: 2 lab science courses

OCEN 4601 Field Methods in Marine Research (4)

Field studies and research in the marine environment that integrate principles, techniques, and information for the multidisciplinary study of marine environments. Students participate in design; conduct a field research project to sample marine environments using oceanographic, geological, and a variety of marine science techniques. (SP)

Corequisite: OCEN 4600 or permission of instructor.

OCEN 4602 Marine Resource Management (3)

The science and politics of protecting the world's ocean's resources and the role of marine protected areas (MPAs) in conserving living marine resources. The rapidly developing science, rationale, and controversies surrounding MPAs, fisheries management, ecosystem-based management strategies, and the collective societal impacts of protection.

Prerequisites: 2 lab science courses and permission of instructor

SUSTAINABILITY SCIENCE COURSES

SUST 1000 Introduction to Sustainability (3)

An introductory course (required for sustainability science majors) that presents the ecological basis for the concern about sustainability. Students will also gain an understanding of the economic and social sustainability issues facing humanity that are the result of the ecological sustainability issues. An introduction to possible solutions to these issues is also presented (3 hrs. lecture). (FA)

SUST 2008 Introduction to Composting (4)

An introduction to composting with an emphasis on anaerobic in-vessel digestion. (3 hrs. lecture, 2 hrs. lab.) (E)

SUST 2200 Introduction to Laws and Sustainability (3)

An overview of the legal system and the laws that have been developed to protect the environment and public health. Will cover the interplay of courts, environmental agencies, and legislatures, along with the role of attorneys and citizens, in the development of laws. Will review the current legal framework for regulating air, water, solid/hazardous wastes, and natural resources with related emerging concepts of sustainability. (3 hrs. lecture) (FA)

SUST 3200 Environmental Health and

Safety for Sustainability (3)

Covers recognition, evaluation, and control of environmental health and safety hazards in the workplace and how they relate to the overall sustainability of the company or institution. (3 hrs. lecture) (FO)

SUST 4000 Technologies for Sustainability (3)

Technologies that will support the transition to sustainability will be explored. Special emphasis will be given to those technologies that are not fully integrated into global sustainability initiatives. (FA)

SUST 4300 Independent Practicum in Sustainability Science (3)

Concluding course in which students integrate the knowledge they have gained to select, develop and implement projects pertaining to environmental sustainability. This capstone course provides a single opportunity or experience during which students demonstrate that they have accomplished or achieved the program's educational goals as represented by the various courses taken. Emphasis is on facilitating the students' transitions to roles in sustainability careers. (SP)

SESS Earth Sciences

The SESS students in the B.S. Degree program options will develop a strong foundation in the Earth Sciences while developing detailed expertise in one of the Concentrations and will apply their knowledge to the environment around them through specialized course work and individual and team-based scientific research projects. Students fully integrate the Earth Science domains of land, water, and air with regard to interactions, impacts, and processes relevant to life systems and hazards. They will be familiar with disciplinary content, methods, and have technical abilities from each.

All SESS Earth Sciences graduates will be fully prepared to pursue advanced graduate degrees within their own or related concentrations; for career opportunities in local, state, and federal government agencies associated with such areas as private weather services, natural resource management and conservation, geological survey, industrial and business applications, environmental monitoring, assessment and mapping; and for career tracks in local weather forecasting (and media), oil, and mapping industries. SESS students can receive degrees in the following Degree Program Options:

**BS Degree in Earth Science,
Option in Geo-Science**

**BS Degree in Earth Science,
Option in Environmental Science**

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

B.S. DEGREE EARTH SCIENCE

OPTION: ENVIRONMENTAL SCIENCE

The Environmental Science program prepares our students for the demands and challenges of interdisciplinary careers and/or graduate studies in the environmental and sustainability sciences with an eye towards integrated societal systems and infrastructures. The option emphasizes modern quantitative and analytical skills for exploring multi-disciplinary problems in a collaborative environment including field, laboratory, and practicum experiences.

GENERAL EDUCATION 32

FOUNDATIONS REQUIREMENTS

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1054 Pre-Calculus # 3

COMM 1402 Speech Communication 3

GE 2024 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 6

*ENG 2403 World Literature 3

Select one course from following areas:

Fine Arts or Art History 3
Foreign Languages 3
Music or Theatre 3
Philosophy or Religion 3
Interdisciplinary 3
Social Sciences 6
*HIST 1602 Worlds of History 3

Select one course from following areas:

Economics or Geography 3
Political Science 3
Psychology 3
Sociology or Anthropology 3
Interdisciplinary 3
Science & Mathematics 7
MATH 1016 Statistics 3
CHEM 1083 Chemistry I 4

* GE Required Distribution Course

ADDITIONAL REQUIREMENTS 31

BIO 1300 General Biology I 4

BIO 1400 General Biology II 4

CPS 1231 Fund of Computer Sci 4

CHEM 1084 Chemistry II 4

ENV 1000 Intro to Environ Sci 3

MATH 2415 Calculus I 4

PHYS 2091 General Physics I 4

PHYS 2092 General Physics II 4

MAJOR AND CAPSTONE REQUIREMENTS 38

GEOS 1100 Intro to Earth & Geog Systems 4

SUST 1000 Intro to Sustainability 3

GEOS 2101 Geo-Hydro Systems 4

ES 2200 Methods in Geoscience 4

OCEN 2400 Oceanography 4

ATMS 3101 Atmosph Systems 4

ES 3200 GIS in Geoscience 4

BIO 3614 Principles of Ecology 4

ENV 3050 or 3051 Field Methods 4

MAJOR/GE CAPSTONE COURSE

ES 4981 Environmental Issues Seminar (WE) 3

PROGRAM FOCUS-RELATED ELECTIVES 15

(Select from approved list in consultation with Program Coordinators and advisors; at least 50% must be 3000/4000 level courses)

FREE ELECTIVES 9

(50% of free electives must be at the 3000-4000 level)

TOTAL 125

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

A Student whose qualifying score on the placement test makes them eligible to take either

MATH 1054 or MATH 2415 may take that course instead. In that case, either MATH 1054 or MATH 2415 will count as the General Education requirement and the student may take another three to six credits in Free Electives to total 124 S.H.

B.S. DEGREE EARTH SCIENCE

OPTION: GEO-SCIENCE

The Earth System Science program prepares our students for the demands and challenges of interdisciplinary careers and/or graduate studies in the geosciences. The option will emphasize using modern quantitative and analytical skills for exploring multi-disciplinary problems in a collaborative environment.

GENERAL EDUCATION 32

FOUNDATIONS REQUIREMENTS

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1000 Algebra for College Students # 3

COMM 1402 Speech Communication 3

GE 2024 Research and Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 6

*ENG 2403 World Literature 3

Select one course from following areas:

Fine Arts or Art History 3

Foreign Languages 3

Music or Theatre 3

Philosophy or Religion 3

Interdisciplinary 3

Social Sciences 6

*HIST 1602 Worlds of History 3

Select one course from following areas:

Economics or Geography 3

Political Science 3

Psychology 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 7

MATH 1054 Precalculus # 3

BIOS 1200 Introduction to Biology 4

* GE Required Distribution Course

ADDITIONAL REQUIREMENTS 24

MATH 2411 Calculus I 3

MATH 2412 Calculus II 3

CHEM 1083 Chemistry I 4

CHEM 1084 Chemistry II 4

MATH 2526 Applied Statistics 3

COMM 2405 Public Speaking 3

ENG 3090 Professional and Technical Writing 3

SELS 1000 Scientific Integrity 1

MAJOR AND CAPSTONE REQUIREMENTS 56

Required Foundation Core Courses

GEOS 1100	Intro to Earth & Geog Systems	4
GEOS 2101	Intro to Geo-hydro Systems	4
SELS 3101	Atmosph Systems	4
ES 3200	GIS in Geoscience	4
GEOL 3265	Geomorphology	4
GEOL 3266	Hydrology	4
ES 4200	Remote Sensing	4
GEOS 4103	Environmental Hazards	4
GEOS 4201	Urban Geographic Systems	4
SELS 4101	Physical Climatology	4

MAJOR/GE CAPSTONE COURSE

ES 4963 and 4964 Honors Research Seminar in ES I & II	2,2
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INTERDISCIPLINARY ELECTIVES 6

(Select from approved interdisciplinary courses in Earth Science, Biology, or Chemistry)

MAJOR ELECTIVES 6

(Select from approved interdisciplinary courses in Earth Science, Biology, or Chemistry)

FREE ELECTIVES 12

(50% of free electives must be at the 3000-4000 level)

TOTAL 124

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

A Student whose qualifying score on the placement test makes them eligible to take either MATH 1054 or MATH 2411 may take that course instead. In that case, either MATH 1054 or MATH 2411 will count as the General Education requirement and the student may take another three to six credits in Free Electives to total 124 S.H.

COURSES FOR SESS EARTH SCIENCE STUDENTS

ENV 1000 Introduction to Environmental Science (3)

An introduction to the study of the environment as an inclusive system that is connected to the diverse scientific fields of biology, chemistry, geology, hydrology, atmospheric science, climatology and geography. Processes of data collection, sampling, analysis, mapping, modeling and predicting are explored. (E)

Prerequisites: ES 1000 or permission of instructor.

ENV 1050 Introduction to Environmental Research (3)

An introduction to the science and practice of environmental research. Students learn about the scientific method through experiential learning in an outdoor and laboratory environment. This course may be taught as a Travel Learn experience or in the environments in an around New Jersey. Students will work in teams to design an implement a research project. 3hr lecture/learning experience.

Prerequisites: None

ENV 1100 Foundations of Environmental Science (4)

An introduction to the study of environmental science that connects science, technology, economics and policy. Processes of data collection, sampling, analysis, mapping, modeling and predicting are explored. This course serves as a GE laboratory science option for Kean students. Credit cannot be given for both ENV 1000 and ENV 1100. (3 hr lec./3 hr lab.)

Prerequisites: None

ENV 3051 Field Methods (4)

Field-based course providing the opportunity to collect biological data in a terrestrial ecosystem while applying current field research methods. Emphasis will be on observation, species identification, field notes, sampling methods, observational and experimental study design, mapping, data analysis, and scientific writing. (3 hours lecture, 3 hours lab).

Pre-requisites: GE 2024

ENV 3201 Biodiversity (4)

An introduction to the concepts, methods and significance of biodiversity science. Case studies and readings from the primary literature are used to apply the ideas and analytical techniques introduced in lecture. This course is equivalent to SUST 3310.

Prerequisites: GE 2024

ENV 3230 Urban Ecology (3)

An examination of ecological processes in human-dominated landscapes from the scientific, historical and cultural perspectives. Human influence on, and response to, natural systems is emphasized. Readings from the primary literature are used to illustrate current research trends and methodologies. This course is equivalent to SUST 3330 (3 hr. lecture).

Prerequisites: GE 2024 or permission of instructor

ENV 3250 Medicinal Botany (3)

Explores the uses of plants as medicine, ranging from traditional indigenous approaches to modern western pharmaceuticals. The biology and use of medicinal plants for treating everything from the common cold to cancer is investigated. (3 credits of lecture).

Prerequisite: GE 2024 or Permission of Instructor.

ENV 3720 Entomology (4)

An introduction to the biology of insects and related arthropods. Lectures integrate ecology, evolution and behavior with functional biology and focus on insects as examples of fundamental concepts. Consideration is also given to effect of insects on the global economy and to sustainable solutions to these problems. Laboratories stress collection, identification and preservation of arthropod specimens. Fieldwork and the preparation of a collection are required. (3 hours lecture, 3 hours lab).

Prerequisites: ENV 3201 or BIOS 3201 or SUST 3310.

ENV 3380 Environmental Instrumentation (4)

Introduction to sampling techniques and analytical methods to measure environmental contamination in air, water, soils, and ecology. Emphasis on instrument selection and quality control, including documentation, calibration, and sample management. (3hr. lec./3 hr. lab.)

Prerequisite: CHEM 1084, METR 1300, MATH 1054, and PHYS 2095; or Permission of Instructor.

ENV 3400 Environmental Oceanography (4)

The ocean's role in regulating climate and the interaction between the ocean, global change and society. Oceanographic records of change illustrate the natural variability of ocean circulation, sea-level, ocean acidification, organism migrations, invasions and mass extinctions through geologic time. (3 hours lecture, 3 hours lab).

Pre-requisites: 2000 level science course

ENV 3600 Coral Reefs and Coastal Systems (4)

Coral reef and coastal system function and form; hands-on study of the biodiversity, biogeography, ecological interactions, current threats and protection.

Course requires field excursions. (3 hours lecture, 3 hours lab).

Pre-requisites: 2000 level science course

ENV 4103 Environmental Hazards (4)

A systematic study of rapid-onset events such as seismic, mass movement, atmospheric, hydrological, technological and biophysical hazards that directly threaten human life and communities. Examination of environmental hazards from the perspective of both earth and social sciences.. (3 hours lecture, 3 hours lab).

Pre-requisites: ES 2101 or permission of instructor

ENV 4601 Marine Conservation (3)

The science behind maintaining the ocean's diversity; historical context of current marine conservation concepts; marine population and system dynamics; threats to marine diversity; and conflicts between human exploitation, fisheries, and ecosystem function; design, function and policy of marine protected areas and reserves by non-governmental and governmental agencies.

Prerequisites: 3000 level science course

ENV 4605 Field Methods in Marine Research (4)

Field studies and research in the marine environment that integrates principles, techniques, and information for the multidisciplinary study of marine environments. Students participate in design; conduct a field research project to sample marine environments using oceanographic, geological, biological and a variety of environmental science techniques.

Prerequisite: 3000 Level Science Course.

ENV 4210 Conservation Ecology (4)

This course examines the historical and ethical background of the conservation movement and the science of conservation biology. It covers various aspects that must be considered in conservation including genetic, species, and ecosystem dynamics and diversity. Connections are made between industrial development and the natural world, relating societal impacts on plants and wildlife to the goals of conservation. Parts of the course will be presented using a Problem-based

Learning (PBL) format involving student-led case studies based on real issues.

Prerequisites: ENV 3201 or BIOS 3201 or SUST 3310 or BIO 3614

ENV 4435 Behavioral Ecology (3)

An introduction to the behavior of animals in natural settings, with emphasis on the ecological and evolutionary levels of organization. Topics include communication, foraging, defense, mating systems, social biology, and research methodology. Lectures stress analytical models, hypothesis testing and methodology. This course is a major elective for Environmental Biology majors (BS) in the School of Environmental and Sustainability Sciences.

Prerequisites: BIO 3614 or permission of instructor

ENV 4600 Plant-Animal Interactions (3)

An examination of how plant and animals interact through evolutionary time and thereby shape communities and ecosystems. Topics include coevolutionary theory, herbivory, plant defense strategies, sequestration of plant compounds, animal agriculture, pollination ecology and seed dispersal. (3 hr. lecture).

Prerequisites: BIO 3614

ENV 4710 Physiological Ecology (3)

A consideration of the varied strategies by which animals have solved the functional challenges of life, including homeostasis, locomotion, feeding, functional control, and reproduction. Lectures emphasize the effects of habitat, ecology and historical contingency on the evolution of physiological systems.

Prerequisites: BIO 3614

ENV 4961 Independent Study Research (1)

A field, laboratory, library and/or policy investigation of a basic or applied environmental issue performed independently by the student under the supervision of a faculty research mentor. ENV 4961 may be repeated, or combined with ENV 4962 or ENV 4963, to a total of four credits toward a SESS program's major elective requirement. *Prerequisites:* Sophomore, Junior or Senior status in the School of Environmental and Sustainability Sciences, and permission of instructor. Faculty mentors may stipulate additional course prerequisites related to their disciplines.

Prerequisites: Sophomore, Junior or Senior status in the School of Environmental and Sustainability Sciences, and permission of instructor. Faculty mentors may stipulate additional course prerequisites related to their disciplines.

ENV 4962 Independent Study Research (2)

A field, laboratory, library and/or policy investigation of a basic or applied environmental issue performed independently by the student under the supervision of a faculty research mentor. ENV 4962 may be repeated, or combined with ENV 4961, to a total of four credits toward a SESS program's major elective requirement.

Prerequisites: Junior or Senior status in the School of Environmental and Sustainability Sciences, and permission of instructor. Faculty mentors may stipulate course prerequisites related to their disciplines.

ENV 4963 Independent Study Research (3)

A field, laboratory, library and/or policy investigation of a basic or applied environmental issue performed independently by the student under the supervision of a faculty research mentor. ENV 4963 may combined with ENV 4961 to a total of four credits toward a SESS program's major elective requirement.

Prerequisites: Junior or Senior status in the School of Environmental and Sustainability Sciences, and permission of instructor. Faculty mentors may stipulate course prerequisites related to their disciplines

ENV 4964 Independent Study Research (4)

A field, laboratory, library and/or policy investigation of a basic or applied environmental issue performed independently by the student under the supervision of a faculty research mentor. ENV 4963 may combined with ENV 4961 to a total of four credits toward a SESS program's major elective requirement.

Prerequisites: Junior or Senior status in the School of Environmental and Sustainability Sciences, and permission of instructor. Faculty mentors may stipulate course prerequisites related to their disciplines.

ES 1101 Introduction to Earth and Geographical Systems (4)

A study of the earth system from the perspective of a coupled natural and human system. Examination of the physical nature of the system components and their interactions. Fundamental skills in observation, visualization, quantitative methods for diagnosis and prediction of impacts. (3 hrs lecture, 3 hours lab). This course is a Major requirement for B.S. in Earth Science. (FA)

Prerequisites: MATH 1000

ES 2101 GeoHydro Systems (4)

An introduction to earth's geo-hydro systems from the perspective of system analysis. Examination of the dynamics of the systems, human-environment interactions, resource management, and connections with the biological and chemical systems.. (3hr. lec./3 hr. lab.)

Prerequisites: ES 1101, MATH 2415, or permission of instructor

ES 2400 Introduction to Oceanography (4)

A survey of modern oceanography and including the biological, geological, chemical and physical characteristics of the ocean and, methods and applications of sciences to the study of the oceans. (3hr. lec./3 hr. lab.)

Prerequisites: 4 Credit lab science class or permission of instructor

ES 3101 Atmospheric Systems (4)

Atmospheric dynamics in relation to environmental and life systems based on fundamental principles using observational data, conceptualization of atmospheric features, forces, processes, and analysis.

Prerequisite: ES 2101 and MATH 2415, or permission of instructor.

ES 3200 Geographic Information Systems (GIS) in Geoscience (4)

Principles and applications of Geographic Information Systems (GIS). Fundamentals of digital cartography, spatial analysis, digital data. Acquiring, assembling, geo-referencing field data; topographic maps; images from remote sensing. Emphasis on Earth and Human Systems; population, urban development and land use. (3 hr lec./3 hr lab.) (SP)

Prerequisites: MATH 1054, four hours of Geoscience or permission of instructor

ES 3261 Mineralogy (4)

To apply mineralogic principles to environmental issues that deal with materials; to use mineralogic principles not only to identify environmental concerns, but also to work toward finding solutions to those problems; to develop a knowledge base for some recognizable environmentally important mineral groups to write coherent descriptions of materials and discussions of issues. (3hr. lec./3 hr. lab.)

Prerequisites: GEOL 1200, CHEM 1083-84,, or permission of instructor

ES 3264 Invertebrate Paleontology (4)

A study of the classification, relationships, and evolutionary history of fossils. Emphasis is placed on paleoecological relationships. (3hr. lec./3 hr. lab.)

Prerequisites: ES 1200 or permission of the instructor

ES 3266 Hydrology (4)

To provide an overview, at the junior/senior undergraduate level, of the use of chemical principles to understand the geochemistry of natural waters and anthropogenic effects on these waters. Emphasis will be on quantitative problem-solving. (3hr. lec./3 hr. lab.)

Prerequisites: CHEM 1083; ES 1200 or permission of instructor

ES 4101 Physical Climatology (4)

The identification, examination, description, and study of the experimental and predictive climate – particularly with regard to microclimatic behaviors, responses, and interactions among relevant environmental and life systems. (3hr. lec./3 hr. lab.)

Prerequisites: ES 3101

ES 4200 Remote Sensing (4)

Theory, technology and methods of remote sensing for observing the earth. Application of remote sensing to problems in the earth sciences including resource exploration, weather forecasting, environmental monitoring and land use. (3 hr lec./3 hr lab.) (SP)

Prerequisites: Eight hours of Geoscience, MATH 1054, PHYS 2091 or PHYS 2095

ES 4963,4964 -Honors Research Seminar in Earth Science I and II (2,2)

Individual research of an original nature under the supervision of a research sponsor. Results of the work to be presented as a seminar. May be taken in place of but not in addition to ES 4953, 4954. Following the presentation, the speaker serves as moderator in a discussion of the subjects.

Prerequisite: Earth Science major of senior standing, with a grade point average of 3.0 overall as well as in Earth Science courses, admitted upon written nomination by a departmental research sponsor and written recommendation by one other departmental faculty member. (FA, SP)
Writing Emphasis Course

GEOL 3261 Mineralogy (4)
An introductory study of minerals; their morphology, internal structure, origin, occurrence, and properties. (3 hr. lec./3 hr. lab.) (FO)
Prerequisites: GEOL 1200 and CHEM 1083-1084, or permission of the instructor.

GEOL 3264 Invertebrate Paleontology (4)
A study of the classification, relationships, and evolutionary history of fossils. Emphasis is placed on paleoecological relationships. (3 hr. lec./3 hr. lab.) (SP)
Prerequisite: GEOL 1200 or permission of the instructor.

GEOL 3265 Geomorphology (4)
Analysis of the various land forms of the Earth's surface in terms of their nature, origin, and evolution. The influence of the different geologic and climatic environments upon the development of land form. Map interpretation. (3 hr. lec./3 hr. lab.) (SO)
Prerequisite: GEOL 1200 or permission of the instructor.

GEOL 3266 Hydrology (4)
The distribution and movement of water with emphasis given to surface waters, their relation to the fluvial aspects of geomorphology and to the impact of man on the hydrologic cycle. (3 hr. lec./3 hr. lab.) (SP)
Prerequisite: GEOL 1200 or METR 1300 or permission of instructor.

GEOL 3281 Field Geology (2)
Field practice in the methods of geological mapping including the use of pace, compass, and clinometer surveys, the plane table and alidade, and aerial photographs. (FE)
Prerequisite: GEOL 1200 or permission of the instructor.

GEOL 4252 Field Geology II (2)
Field conference and studies of one or more selected areas with written reports and maps. Additional expenses may be incurred. (SO)
Prerequisites: GEOL 3261, 3263, 4266 (may be taken concurrently), or permission of the instructor.

GEOL 4265 Petrology (4)
A study of the petrologic processes at work upon and within the crust of the earth that produce and modify rock bodies. (3 hr. lec./3 hr. lab.)
Prerequisite: GEOL 3261 or permission of the instructor.

GEOL 4266 Stratigraphy and Sedimentation (4)
Origin and characteristics of sediment grains; sedimentation processes; diagenesis and rock classification; correlation of stratigraphic units; sedimentary environments and their deposits. (3 hr. lec./3 hr. lab.) (SO)
Prerequisite: Twelve hours of geology or permission of the instructor.

GEOS 1100 Introduction to Earth and Geographical Systems (4)
A study of the earth system from the perspective of a coupled natural and human system. Examination of the physical nature of the system components and their interactions. Fundamental skills in observation, visualization, quantitative methods for diagnosis and prediction of impacts. (3 hrs lecture, 3 hours lab). This course is a Major requirement for B.S. in Earth Science. (FA)
Prerequisites: MATH 1000

GEOS 2101 Geo-hydro Systems (4)
A study of the earth's geo-hydro systems from the perspective of system analysis. Examination of the dynamics of the systems, human-environment interactions, resource management, and connections with the biological and chemical systems. (3 hrs lecture, 3 hours lab). This course is a Major requirement for B.S. in Earth Science. (SP)
Prerequisites: SELS 1100, MATH 2411, 2095

GEOS 4103 Environmental Hazards (4)
A systematic study of rapid-onset events such as seismic, mass movement, atmospheric, hydrological, technological and biophysical hazards that directly threaten human life and communities. Examination of environmental hazards from the perspective of both earth and social sciences. Fundamental skills in analytical, mapping, decision support tools and risk assessment for practical disaster management. (FO)
Prerequisites: GEOS 2101 and SELS 3101 or permission of instructor

GEOS 4201 Urban Geographic Systems (4)
A study of the urban geographic systems from the perspective of research and spatial analysis. Examination of the urban and city concepts and processes, internal structure and system of cities, segregation, migration, industrial geography, urban development and environmental problems. Fundamental skills in applied GIS and spatial analysis for urban geographic analysis, urban environmental assessment, urban and regional planning. (SO)
Prerequisites: ES 3200

METR 3370 Atmospheric Dynamics (4)
A mathematical formulation of the physical laws which govern weather processes and atmospheric motion. (3 hr. lec./3 hr. lab.) (FE)
Prerequisites: METR 1300, PHYS 2096, MATH 2412 or permission of instructor.

METR 3371 Atmospheric Thermodynamics (4)
The application of thermodynamic principles to the atmosphere: heat, work, internal energy and available energy of the atmosphere; the thermodynamics of water vapor and moist air; dry and moist thermodynamic processes; hydrostatic equilibrium and altimetry; atmosphere stability and convection. (3 hr. lec./3 hr. lab.) (FE)
Prerequisites: METR 1300, PHYS 2096, MATH 2412 or permission of instructor.

METR 3372 Physical Meteorology (3)
An examination of the physics of atmospheric phenomena. Topics include wave theory, transfer processes, cloud physics, atmospheric radiation, and remote sensing. Emphasis is placed on the application of physical theory to obtain a better understanding of atmospheric phenomena. (SE)
Prerequisites: MATH 2412, METR 1300, PHYS 2096.

METR 3380 Meteorological Instrumentation (4)
Familiarization with the various instruments used to observe the atmosphere; principles of operation, instrument calibration and maintenance, error analysis, observing systems. (3 hr. lec./3 hr. lab.) (SO)
Prerequisites: METR 1300 and MATH 1054.

METR 4351-4352 Synoptic Meteorology I and II (4,4)
Understanding the processes which govern the weather; practical application of the predictive equations through use of weather maps; in depth analysis of NCEP forecasting products; extensive plotting and analysis of synoptic charts stressing the three dimensional nature of weather systems; weather forecasting and briefing. (2 hr. lec./6 hr. lab.) (FO, SE)
Prerequisites: METR 3370 and 3371 or permission of instructor. METR 4351 is a prerequisite to 4352.

METR 4370 Advanced Atmospheric Dynamics (3)
Circulation, vorticity, and divergence theorems, theory of Rossby Waves, pressure coordinates, turbulence and diffusion, energy conversions, numerical weather prediction, the general circulation. (SO)
Prerequisites: ATMS 3370 and METR 3371 or permission of the instructor.
Writing Emphasis Course

ATMS 3101 Atmospheric Systems (4)
Atmospheric dynamics in relation to environmental and life systems based on fundamental principles using observational data, conceptualization of atmospheric features, forces, and processes, and analysis. These include basic principles in radiative transfers and chemistry, thermodynamic properties and behaviors, and fluid motion. Weather systems, hazards, and impacts are examined with regard to modeling and prediction in both a quantitative and qualitative manner. Emphases include graphical and statistical analysis, spatiotemporal relationships, and forecast uncertainty. Local and global scale aspects are studied with regard to physical models, bio-meteorology, atmospheric chemistry, and other relevant settings. (3 hrs lecture, 3 hours lab). This course is a Major requirement for B.S. in Earth Science
Prerequisites: GEOS 2101, PHYS 2095

ATMS 4101 Physical Climatology (4)
The identification, examination, description, and study of the experimental and predictive climate – particularly with regard to microclimatic behaviors, responses, and interactions among relevant environmental and life systems. Design and response to physical climate systems, including cost/loss and/or cost/benefit analyses are related to risk factors regionally and locally. Methods include distributional and spatio-temporal analyses to depict, visualize, and predict cause and effect of interactive and competing systems in terms of hazards and planning. Reliability and various applications are made to unique situations for management of physical environments with life systems. (3 hrs lecture, 3 hours lab). This course is a Major requirement for B.S. in Earth Science
Prerequisites: ATMS 3101, PHYS

Sustainability Science

The B.S. in Sustainability Science is designed to prepare students in the discipline of sustainability and environmental sciences that focuses on three main areas: environment, economy, and society. These are examined contextually and with regard to their inter-relationships. Students in the Sustainability Science major must obtain at least a 3.25 high school GPA.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

BACHELOR OF SCIENCE IN SUSTAINABILITY SCIENCE 120

GENERAL EDUCATION 36

FOUNDATION REQUIREMENTS 13

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030	Composition	3
MATH	1054	Pre-Calculus	3
COMM	1402	Speech Communication	3
GE	2024	Research & Technology	3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

<i>Humanities: (from different areas)</i>	6
*ENG 2403 World Literature	3
Fine Arts/Art History	3
Philosophy or Religion	3
Foreign Languages (Must take I and II for credit)	3
Music or Theatre	3
Interdisciplinary	3
<i>Social Sciences: (from different areas)</i>	6
*HIST 1062 Worlds of History	3
Psychology	3
Economics or Geography	3
Political Science	3
Sociology or Anthropology	3
Interdisciplinary	3
<i>Science and Mathematics</i>	7
MATH 1016 Statistics	3
CHEM 1083 Chemistry I	4

G.E. AND MAJOR CAPSTONE 3

SUST	4300	Indep. Practicum in Sustainability Science	3
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ADDITIONAL REQUIRED COURSES 31

BIO	1300	Biology I	4
BIO	1400	Biology II	4
CHEM	1084	Chemistry II	4
MATH	2415	Calculus I	4
PHYS	2091	General Physics I	4
PHYS	2092	General Physics II	4
CPS	1231	Fundamentals of Computer Science	4
DSN	2200	Sustainable Design II	3

ACADEMIC MAJOR TOTAL CREDITS 34

ENV	1000	Intro to Environmental Science	3
ENV	2100	Ecosystem Science	4
ES	1101	Intro to Earth and Geog Systems	4
ES	2101	Geo-hydro Systems	4
ES	3000	Global Climate Change and Society	4
SUST	1000	Intro to Sustainability	3
SUS	2200	Laws for Environmental Sustainability	3
SUST	3110	Renewable Energy	3
SUST	3200	Environmental Health and Safety	3
SUST	4110	Life Cycle Assessment	3

MAJOR/RELATED ELECTIVES 12-15

To be selected with advisement from approved program list (partial list below); at least half of the credits must be at the 3000-4000 level. A maximum of 8 S.H. of SUST courses count toward degree.

SUST	2002	Religion and Sust.	3
SUST	2008	Intro to Composting	3
SUST	3300	LEED Lab and AP Cred Preparation	4
SUST	3400	Travel learn: Global Sustainable Development	3
SUST	4000	Technologies for Sustainability	3
SUST	4001	Essential Readings in Sustainability	3
ENV	2000	Evolution and Biodiversity	4
ENV	3051	Field Biology: Terrestrial Systems or OCEN 4601 Methods in Marine Research	4
ENV	3100	Principles of Environmental Soil Science	4
ENV	3201	Biodiversity Assessment	4
ENV	4210	Conservation Biology	4
ENV	4961	Independent Study in SESS (1 credit) or ENV 4962 Independent Study in SESS (2 credits)	1-2
BIO	2500	Principles of Botany	4
BIO	3400	Zoology: Form and Function	4
BIO	3614	Principles of Ecology	4
BIO	3000	Marine Biology	4
BIO	4615	Applied Ecology	4
CHEM	2182	Organic Chemistry II.	3
GEOL	2020	Conservation of Natural Resources	3
GEOG	3410	Urban Geography	3
GEOL	1200	Introduction to Geology	4
GEOL	2262	Geology and the Environment	3
METR	1300	Introduction to Meteorology	4
METR	3360	Air Pollution	3
GEOL	3266	Hydrology	4

OCEN	3453	Introduction to Oceanography	4
PS	3845	Regulatory Law and Public Policy	3
PHIL	3800	Environmental Ethics	3
REC	3810	Recreation and the Environment	3
SOC	2500	Introduction to Global Studies	3
SOC	3420	Environment and Society	3

FREE ELECTIVES 16

TOTAL 120

At least 50% must be 3000/4000 level

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

*G.E. required course

**Course required by Major

***All Major courses require a grade of C or better

Students should meet with the Executive Director for advisement because of pending changes to the guidesheet.

MINOR IN SUSTAINABILITY SCIENCE (18-20 CREDITS)

Intro Level Requirements 6-7

SUST	1000	Intro to Sustainability	3
ENV	1000	Intro to Env Science	3

OR

ENV	1100	Foundations of Env Science	4
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Advanced Level Requirements 12-13

SUST	3200	Env Health & Safety	3
SUST	3110	Renewable Energy	3
SUST	4110	Life Cycle Assessment	3
ENV/SUST ¹		course	3-4

¹One SUST or ENV course, at the 3000-4000 level, approved by the Sustainability Science advisor.

SUSTAINABILITY COURSES

SUST 1000 Introduction to Sustainability (3)

An introductory course (required for sustainability science majors) that presents the ecological basis for the concern about sustainability. Students will also gain an understanding of the economic and social sustainability issues facing humanity that are the result of the ecological sustainability issues. An introduction to possible solutions to these issues is also presented (3 hrs. lecture). (FA)

SUST 2008 Introduction to Composting (4)

An introduction to composting with an emphasis on aerobic in-vessel digestion. (3 hrs. lecture, 2 hrs. lab.) (E)

SUST 2101 Applied Organic Chemical Systems for Sustainability (4)

A fundamentals course in organic molecular structure, nomenclature, and basic reaction chemistry classification geared toward the justification of newly emerging sustainable chemical practices. (3 hrs. lecture, 2 hrs. lab) (SE)

SUST 2200 Introduction to Laws and Sustainability (3)

An overview of the legal system and the laws that have been developed to protect the environment and public health. Will cover the interplay of courts, environmental agencies, and legislatures, along with the role of attorneys and citizens, in the development of laws. Will review the current legal framework for regulating air, water, solid/hazardous wastes, and natural resources with related emerging concepts of sustainability. (3 hrs. lecture) (FA)

SUST 2201 Economics for Sustainability (3)

Uses economic theories and models to define and analyze issues of economic sustainability, development, and policy. In particular, the focus will be on intergenerational equity and human-nature relations. (3 hrs. lecture) (SE)

SUST 2202 Religion & Sustainability (3)

Explores the role of religion and of specific religions in fostering unsustainability and in achieving sustainability. (3 hrs. lecture) (SO)

SUST 2203 Intercultural Communication for Sustainability (3)

An analysis of skills and techniques for verbal and nonverbal communication and related factors within and between various cultures, predictions of patterns and effects, and communication barriers as they relate to communicating about sustainability. (3 hrs. lecture) (FA)

SUST 3097-99 Special Topics in Sustainability Science II (1-3)

Class work designed to provide an opportunity to study special topics in sustainability science that are not studied in regular courses. The program will announce topics. One semester hour of credit given for each 15 hours of classwork. A maximum of 6 credits of Special Topics may be used to fulfill major option elective requirements.

SUST 3110 Renewable Energy (3)

A broad overview of the current energy system including energy need, energy sources, and energy production technologies; various renewable energy sources, technologies and their economic, environmental and social implications, 3 hours of lecture.

Prerequisites: SUST 1000

SUST 3200 Environmental Health and Safety for Sustainability (3)

Covers recognition, evaluation, and control of environmental health and safety hazards in the workplace and how they relate to the overall sustainability of the company or institution. (3 hrs. lecture) (FO)

SUST 3300 LEED Lab and AP Credential Preparation (4)

This course will build on the accomplishments by establishing the LEED (Leadership in Energy and Environmental Design) Lab, with the goal of having students prepare a plan of an existing building for obtaining certification under LEED Existing Buildings, Operation and Maintenance (EBOM). Students will assess, evaluate, prioritize, and plan improvements to the building using the LEED EBOM rating system and software tools as well as being a member of an interdisciplinary team. The course provides students with experiences and practicum that are directly correlated with the LEED AP Credential exam. 3hr lecture/3 hr lab.

Prerequisites: DSN 2200 or GE 2024

SUST 3600 Global Sustainable Development (3)

Educational trips to designated countries that are facing sustainability challenges and/or countries that are advanced in sustainable development, with an emphasis on learning through supervised on-site visits with local officials, residents, researchers, student organizations, environmental activists, and NGOs. Opportunities are provided to undertake small and highly informal group projects including data analysis and presentation. Tour duration between 10-15 days. Course includes pre-and post-trip meetings.

Prerequisite: GE 2024

SUST 4094-96 Independent Research in Sustainability Science III (1-3)

A laboratory or field investigation of a sustainability research topic, performed independently by student, under supervision of a faculty member. May be repeated for credit up to a total of 3 credits. A maximum of 3 credits of independent research may be used to fulfill major elective requirements. (FO)

SUST 4110 Life Cycle Assessment (3)

An introduction to the life cycle assessment (LCA) including basic concepts, methodology and standards; real life applications of LCA methodology in various topics of current interest; and hands-on skills in conducting LCA projects. Students will work towards certification in America Center for LCA. 3 hours of lecture.

Prerequisite: SUST 3100

SUST 4300 Independent Practicum in Sustainability Science (3)

Concluding course in which students integrate the knowledge they have gained to select, develop and implement projects pertaining to environmental sustainability. This capstone course provides a single opportunity or experience during which students demonstrate that they have accomplished or achieved the program's educational goals as represented by the various courses taken. Emphasis is on facilitating the students' transitions to roles in sustainability careers. (SP)

Department of Computer Science

Chair: Dr. Patricia Morreale

W-408, (908) 737-4250

The Department of Computer Science prepares students to think critically and creatively; to succeed in challenging careers in computing and information technology, or pursue graduate degrees; to adapt to changing technological and social environments in a global economy.

The department offers three B.S. degree programs:

- Computer Science (accredited by the Computing Accreditation Commission of ABET, www.abet.org [Union campus only])
- Computer Science (Information Systems Option)
- Information Technology

and a graduate program, an M.S. in Computer Information Systems.

These programs prepare technically oriented professionals for leadership and management positions in business, education, and government or graduate studies. Our primary purpose is to provide technology and research related undergraduate and graduate programs to support the career goals of individuals entering and advancing in technical and managerial positions at all levels in the computing and information technology fields.

Computer science faculty are actively engaged in ongoing research activities and undergraduate student researchers are included in this effort. The department recently received highly competitive National Science Foundation (NSF) grants for scholarship and equipment. Additional department research funding has been provided by Google and the Computing Research Association, as well as private industry.

An M.S. degree in Computer Information Systems is available as part of a 5-year B.S. CS/M.S. CIS program. Please see more information at the department website: www.kean.edu/~compsci

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

COMPUTER SCIENCE CLASSROOMS

The Department of Computer Science classes have a maximum size of 20 students per class.

Hardware: Over a hundred machines are distributed across five dedicated classrooms. Each classroom is equipped with twenty-one networked computers, an overhead LCD projector, a presentation screen, printing capability, and Internet access as well as local access and whiteboard space for presentations. The primary instructional rooms each have twenty-one Dell Optiplex 790 machines with dual-boot option settings, permitting students to work in either Windows or Linux. An additional dedicated classroom has twenty-one iMac machines [2@24" (2.8 GHz) and 19@20"

(2.66 GHz), running dual-boot option settings, permitting students to work in OS X or Windows] and one Dell workstation, in addition to the technology classroom teaching suite (projector/board/screen). A networked HP Laserjet 84250n printer is in each classroom.

Software: Dual boot Linux and Windows. Microsoft Office 2010, with Access, Excel, Powerpoint, Project Visio, and Word is available. Java, C, C++, and Visual Studio are available, along with other programming packages and utility programs.

COMPUTER SCIENCE RESEARCH LABORATORIES

The Computer Science Department maintains a teaching environment, accessible via login from the classroom and campus laboratories on the following machine:

Dell PowerEdge R710 2 CPUs (2.4 Quad Core Xeon), 24GB RAM 3TB RAID;

Dell PowerEdge 2950: 2 CPUs (2.0GHz Quad Core Xeon), 10GB RAM and 1TB RAID;

Dell PowerEdge 2950: 2 CPUs (2.0GHz Quad Core Xeon), 4GB RAM and 3TB RAID and

The **High-Performance Computing Laboratory** (managed by the Computational Science Group, part of the Department of Computer Science at Kean University) has one large cluster, funded by a NSF MRI grant. The cluster is available for student and faculty researchers and is composed of a 130 node (1040 core) Beowulf Cluster. Hardware: Dual 2.66 GHz Quad Core Xeon CPU, 2GB RAM per core, 3TB HD. Software: Linux, MPICH.

The **Network Laboratory**, utilized by student researchers for hands-on projects associated with human-computer interaction (HCI), multimedia and mobile application development, networking configurations and network programming experience, includes 6 workstations (2@2.66 GHz and 4@3GHz), and a variety of telecommunications equipment and software. A wireless testbed of 10 Oracle Java SPOTs and 6 Crossbow sensors are used for distributed data collection and data mining. Two brain-computer interface (BCI) headsets are available for student research.

The **Virtual Reality Laboratory**, used by student researchers to conduct projects in virtual reality, augmented reality, human-computer interactions maintains two PC workstations (2.8GHz, 4GB RAM, and 500GB HD), two Z800 3D Visor Head-mount displays, two DG5-VHand Data Gloves, one Phantom Omni Haptic Device, one 35" Multitouch Surface + software, and the CAVE Automatic Virtual Environment for 3D immersive visualization environment.

The **Electronics Laboratory** is used by faculty for telecommunications research, circuit design and systems investigation, and support senior research projects. The lab maintains a variety of electronics testing and fabrication equipment, and twenty-one PC workstations running Windows and development software tools.

ADMISSION REQUIREMENTS:

The Department of Computer Science has formally adopted the following standards for admission to all options of the Computer Science major:

1. Minimum cumulative GPA of 2.5 at the time of admission to the major.
2. At least 9 credits of CPS courses with a grade of "C" or better in each and these credits must have been taken at Kean University.

Transfer credit policy: Transfer credit is evaluated during admission, using university standards and www.njtransfer.org. Department evaluation of transfer credit is conducted by the Department Chair or designated representative. Coursework to be transferred to Kean is evaluated as equivalent work based on course numbering, pre-requisites, co-requisites, catalog description, and supporting materials. Any exceptions are documented.

B.S. DEGREE COMPUTER SCIENCE

Computer science students are prepared to think critically and creatively to succeed in challenging careers in computing or pursue graduate degrees by applying knowledge of computing and mathematics to analyze problems for the identification, design, and implementation of computer-based solutions to adapt to the changing technological and social environments in a global economy. The B.S. Computer Science degree is accredited by the Computing Accreditation Commission of ABET, www.abet.org (Union campus only).

GENERAL EDUCATION 36

FOUNDATIONS REQUIREMENTS 13

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030	College Composition	3
*MATH	1054	Precalculus #	3
COMM	1402	Speech Communication	3
GE	2024	Research and Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

<i>Humanities</i>	6
*ENG 2403 World Literature	3
(Select one course from below)	
Fine Arts or Art History	3
Philosophy or Religion	3
Foreign Languages	3
Music or Theatre	3
Interdisciplinary	3
<i>Social Sciences</i>	6
*HIST 1062 Worlds of History	3
(Select one course from below)	
Psychology	3
Economics or Geography	3
Political Science	3
Sociology or Anthropology	3
Interdisciplinary	3

Science & Mathematics	8
CPS 1231 Fund. of Computer Science**	4
Lab Science I (Bio/Chem/Phy)	4

G.E. AND MAJOR CAPSTONE

CPS 4951 Sr. Project or CPS 4961 Senior Research	3
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ADDITIONAL REQUIREMENTS***32/36

Lab Science II (Bio/Chem/Phy)	4
TECH 2920 Computer Systems	3
ENG 3091 Technical Writing	3
MATH 2110 Discrete Structures	3
MATH 2526 Applied Statistics	3
MATH 2415 Calculus I	4
MATH 2416 Calculus II	4
OR	
MATH 2995 Matrix & Linear Alg.	3
Select one from MATH 3120, 3155, 3225, 3415, 3455, 3526, 3544, 3815 or 3940	3
Select two Math/Science electives: (Math elective 2xxx-4xxx level only)	
Math/Science elective	3/4
Math/Science elective	3/4

COMPUTER SCIENCE MAJOR*** 41

MAJOR CORE REQUIREMENTS 14

CPS 2231 Comp Org. and Prog.	4
CPS 2232 Data Structures	4
CPS 2390 Org. & Architecture	3
CPS 3250 Comp Operating Systems	3

MAJOR CONCENTRATION REQUIREMENTS 12

CPS 3440 Analysis of Algorithm or	3
CPS 4501 Formal Lang. & Automata	
CPS 3962 OO Analysis & Design (WE)	3
CPS 4150 Computer Architecture or	3
CPS 4200 Systems Programming	
CPS 4222 Principles of Networking	3

MAJOR ELECTIVES 15

15 credits in Computer Science, at the 3000 level or above selected with approval of departmental advisor. CPS 3150 is recommended.

FREE ELECTIVES 7/11

(50% of free electives must be taken at the 3000-4000 level)

(ID 1400 Computing in Modern Society for 3 credits is recommended if Math 1000 is needed)

TOTAL 120

Note on Free Electives

CPS 4999 Cooperative Education may be counted as a free elective (no more than 3 S.H.). There are four prerequisites for CPS 4999 which are listed on the program guidesheet.

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

Students eligible to take MATH 2415 CalculusI based on their placement test may take that course in place of Math 1054. In that case, MATH 2415 will fulfill the Distribution requirement and the student may take an additional three credits in Free Electives to total 120 S.H.

* General Education Required

** Students who have had prior programming experience may enter CPS 2231 directly. In this case, CPS 2231 will be counted as the Distribution requirement and the student may take another 4 credits in Free Electives to total 120 S.H.

***All major courses, additional requirements and concentration courses, including the capstone, require a grade of C or better.

B.S. DEGREE COMPUTER SCIENCE

OPTION: INFORMATION SYSTEMS

This option, with an emphasis on information systems, prepares students to design, develop, and manage systems in large enterprises, including business environments.

GENERAL EDUCATION 35

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean ¹	1
OR	
GE 3000 Transfer Transitions ¹	1
ENG 1030 College Composition	3
MATH 1000 Algebra for College Students #	3
COMM 1402 Speech Communications	3
GE 2024 Research and Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities	6
*ENG 2403 World Literature (Select one course from below)	3
Fine Arts or Art History	3
Philosophy or Religion	3
Foreign Languages	3
Music or Theatre	3
Interdisciplinary	3
Social Sciences	6
*HIST 1062 Worlds of History (Select one course from below)	3
Psychology	3
Economics or Geography	3
Political Science	3
Sociology or Anthropology	3
Interdisciplinary	3
Science & Mathematics	7
*MATH 1054 Precalculus ##	3
Lab Science	4
*Required Distribution Course	

G.E. AND MAJOR CAPSTONE

CPS 4951 Senior Project or CPS 4961 Senior Research	3
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ADDITIONAL REQUIREMENTS*** 27-28

COMM 2405 Public Speaking	3
ENG 3091 Technical Writing	3
MATH 2110 Discrete Structures	3
MATH 2415 Calculus I or MATH 2400 Cal for Biz	4/3
MATH 2526 Applied Statistics	3
TECH 2925 Web Client-Side Programming or	3
Lab Science II (Bio/Chem/Phy)	4
Select one of the approved 3 course tracks:	9

Accounting & Finance:

ACCT 2200 Accounting I	3
FIN 3310 Mgt. Corp. Finance I	3
ACCT 2210 Accounting II or FIN 3311	3

Quantitative Management:

ACCT 2200 Accounting I	3
MGS 2110 Quantitative Methods	3
MGS 4110 Operations Research	3

Web Systems:

GC 1000 Computer Graphics Design I	3
GC 2000 Computer Graphics Design II	3
TECH 3601 New Media Programming I	3

COMPUTER SCIENCE MAJOR (INFORMATION SYSTEMS OPTION)*** 42

MAJOR CORE REQUIREMENTS 18

CPS 1231 Fund. of Computer Science**	4
CPS 2231 Comp Org. and Prog.	4
CPS 2232 Data Structures	4
CPS 2390 Org. & Architecture	3
CPS 3250 Comp Operating Systems	3

CONCENTRATION REQUIREMENTS 12

CPS 3351 Info. Systems Programming	3
CPS 3740 Database Mgmt Systems	3
CPS 3962 OO Analysis & Design (WE)	3
CPS 4931 Distributed Systems Apps	3

MAJOR ELECTIVES 12

12 credits in Computer Science, at the 3000 level or above selected with approval of departmental advisor.

FREE ELECTIVES 14-16

(50% of free electives must be taken at the 3000-4000 level)

(ID 1400 Computing in Modern Society for 3 credits is recommended if Math 1000 is needed)

TOTAL 120

Note on Free Electives

CPS 4999 Cooperative Education may be counted as a free elective (no more than 3 S.H.). There are four prerequisites for CPS 4999 which are listed on the program guidesheet.

¹ University Requirement for Graduation for all

undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

Students eligible to take Math 1054 Precalculus based on their placement test may take that course in place of Math 1000 and take an additional three credits in Free Electives to total 120 S.H.

Students eligible to take Math 2415 Calculus I based on their placement test may take that course in place of Math 1054. In that case, Math 2415 will fulfill the Distribution requirement and the student may take an additional three credits in Free Electives to total 120 S.H.

** Students who have had prior programming experience may enter CPS 2231 directly. In this case, CPS 2231 will be counted as the Distribution requirement and the student may take another 4 credits in Free Electives to total 120 S.H.

***All major courses, additional requirements and concentration courses, including the capstone, require a grade of C or better.

MINOR IN COMPUTER SCIENCE†

**TOTAL CREDITS IN
COMPUTER SCIENCE** 21/20

REQUIRED COURSES 12

CPS 1231	Fund. of Computer Science**	4
CPS 2231	Comp Org. and Prog.	4
CPS 2232	Data Structures OR	4
CPS 2240	IT Data Structures	3

CPS ELECTIVES 9

3 Computer Science courses at the 2000 level or above.

SUPPORTING COURSES 9

*MATH 1000	College Algebra	3
*MATH 1054	Precalculus	3
MATH 2110	Discrete Structures	3

*Waived for students who have completed the equivalent of this course in high school.

†All minor required courses, CPS electives and supporting courses, require a grade of C or better.

COMPUTER SCIENCE COURSES

CPS 1010 Introduction to Computing Systems (1)

An introduction to the computing systems used in Computer Science classes at Kean. System access, file manipulation, program compilation, and features unique to the university systems are presented. Required for Computer Science and Technology majors who have received transfer credit for CPS 1231. Offered only on a Pass/Fail basis. (E)

Prerequisites: CPS 1231 credit or the equivalent.

CPS 1032 Microcomputer Applications (3)

A study of computer literacy concepts, and organization of data in files and databases for information generation. Emphasis is on the proper use of microcomputer application packages to fulfill the informational needs of organizations and support professional problem solutions. Students will be introduced to a variety of microcomputer application packages. Not for credit in Computer Science Major. (E)

Prerequisites: ENG 1030 and Math 1000 or Math 1010, 1016, or 1030.

General Education Distribution Course

CPS 1231 Fundamentals of Computer Science (4)

Fundamental computing concepts, components and processes; hardware and software components; communications and information systems; use of systems software; problem solving with application software; introduction to design of algorithms using a high-level programming language. (3 hr. lec./1 hr. lab.) (E)

Prerequisite: MATH 1000. ENG 1030 or equiv.

General Education Distribution Course

CPS 2231 Computer Organization and Programming (4)

Fundamental computing concepts and processes; use, development, analysis and style of algorithms involving a high-level programming language; object-oriented programming concepts. (3 hr. lec./1 hr. lab.) (E)

Prerequisites: CPS 1231 and MATH 1054.

CPS 2232 Data Structures (4)

The theory of Abstract Data Types (ADTs); applications and implementations of the classical ADTs including lists, sets, stacks, queues, hash tables, trees, and graphs; recursion; elementary algorithm analysis. (3 hr. lec./1 hr. lab.) (E)

Prerequisite: CPS 2231

Co-requisite: MATH 2110.

CPS 2240 IT Data Structures and Applied Programming (3)

Applied fundamental data structures and algorithms; user interface design and implementation; human-computer interaction; application programming interfaces involving data structures, graphical user interface, networking, multithreading, and event-driven model; use of integrated development environments, documentation generators, and debugging tools. (FA)

Prerequisite: CPS 2231.

CPS 2310 Topics in Programming Language (1)

An in-depth exploration of a selected programming language not covered in Kean's computing curriculum. Details of the language, syntax, semantics and applications will be discussed. May be taken more than once for credit. Prior programming experience required.

Prerequisites: CPS 2231.

CPS 2390 Organization and Architecture (3)

Fundamental concepts of assembly language programming as a means of introducing computer architecture. Data representation, logic gates, CPU and memory organization, the instruction cycle, addressing modes, high and low level code equivalence from assignments and iteration to subroutine and parameter passing. (E)

Prerequisite: CPS 2231

Co-requisite: MATH 2110.

CPS 3150 Advanced Programming Techniques (3)

Advanced programming concepts and techniques; team-oriented systematic development of large-scale programs; use of integrated development environments, revision control systems; documentation generators, profiling and debugging tools; application programming interfaces involving data structures, graphical user interface, networking, multithreading, and event-driven model. (FE)

Prerequisite: CPS 2232.

CPS 3250 Computer Operating Systems (3)

Historical development of operating systems, types of operating systems, CPU scheduling, memory management, file organization and access, concurrent processes, I/O organization. (E)

Prerequisites: CPS 2232 and CPS 2390.

CPS 3276 Local Area Networks (3)

An introduction to operation and software design for local area networks: ISO/IEEE network standards, survey of network operating systems, setting up a network, LAN programming at the system level, NETBIOS and assembly level network programming.

Prerequisite: CPS Core.

CPS 3310 Programming Languages (3)

A study of the characteristics of programming languages, with an emphasis on the ongoing evolution of programming languages, including the classification and utility assessment of specific programming languages. (FA)

Prerequisite: CPS 2232 or CPS 2240

CPS 3351 Information Systems Programming (3)

Information systems computing concepts and processes using a high level visual programming language; information systems requirements, design, construction and testing. (FA)

Prerequisite: CPS 2232.

CPS 3410 Applied Algorithms and Data Structures (3)

An investigation into the application of algorithms using a high level language. The application of structured programming concepts in a "hands-on" environment. The investigation and development of projects emulating the "real world." (SP)

Prerequisite: CPS 2232.

CPS 3411 Competitive Programming (1)

Competitive programming strategy and tactics. Programming team organization. Use of automatic submission/judging software in programming competitions. Students are expected to participate in the annual ACM Regional Collegiate Programming Contest. Offered in the Fall Semester. May be repeated for up to a total of 3 credits. (FA)

Prerequisite: CPS 3410 or permission of instructor.

CPS 3440 Analysis of Algorithms (3)

Algorithm analysis techniques. Algorithms involving advanced data structures, sorting, trees, and graphs. NP-Completeness. (FA)

Prerequisites: CPS 2232

CPS 3498 Computer Security (3)

Information and coding, measurement and transmission of information, redundancy, noise, data bank security in government and industry, computer network weaknesses, data encryption. (FA)

Prerequisite: CPS 2231.

CPS 3500 Web Programming (3)
The Internet and the World Wide Web, Unix essentials, TCP/IP, MIME, browsers, HTML, the Winsock API, Introduction to PERL, CGI, Web server configuration and administration, JavaScript and Java, Client/server computing on the Web. (SP)

Prerequisite: CPS 2232.

CPS 3740 Database Management Systems (3)

Fundamental concepts and standards for database management systems; database design; database implementation; storage and performance considerations; transaction processing concepts; application of database management systems. (SP)

Prerequisite: CPS 2232.

CPS 3884 Functional Programming (3)

Lambda Calculus; recursion; continuations; closures; evaluation; functional programming in COMMON LISP.

Prerequisite: CPS 2232.

CPS 3962 Object-Oriented Analysis and Design (3)

Design and analysis of Computer Information Systems. Topics will include Systems Development Life Cycle, Design and Analysis tools, CASE tools, File and Database systems. (SP)

Prerequisites: CPS Core.

Writing Emphasis Course

CPS 4130 Data Communications (3)

Data communication terminology and concepts; identification of hardware and software components; networking; survey and usage of protocols; security.

Prerequisite: CPS Core.

CPS 4150 Computer Architecture (3)

The fundamental concepts of modern machine organization and the implementation of instructions with emphasis on the major factors determining computer performance. (FA)

Prerequisite: CPS 2390.

CPS 4200 Systems Programming (3)

Module development of modern system functions and extensions. Topics include: multi-tasking, windowing, large address spaces, interrupts operating systems such as UNIX and Windows. (SP)

Prerequisite: CPS 3250.

CPS 4220 Compiler Design (3)

A practical and theoretical introduction to compilers for high-level programming languages with emphasis is placed on accepted techniques for constructing compilers.

Prerequisite: CPS 3250.

CPS 4222 Principles of Networking (3)

Network design, routing, and implementation, including wireless, multimedia, and mobile networks; security in computer networks, and network management. (SP)

Prerequisites: CPS 3250.

CPS 4301 Software Engineering (3)

Examination of the software development process. The course includes the organization of software development projects, testing, security and privacy, and the legal aspects of software development. (FA)

Prerequisites: CPS Core.

Writing Emphasis Course

CPS 4408 Computer Graphics Algorithms (3)

Applications of Computer Graphics; Input and Output Devices; Line Drawing Algorithms; Windows; Viewports; Clipping; Two-Dimensional Transformations; Three-Dimensional Transformations; Projections; Animation.

Prerequisites: CPS 2232 and MATH 2526.

CPS 4410 Systems Simulation (3)

Simulation as a problem solving technique; modeling; queuing models; random number generators; testing of random number generators; the Monte Carlo technique; generating random varieties; a simulation package. (FE)

Prerequisites: CPS 3250, MATH 2526

CPS 4501 Formal Language and Automata Theory (3)

The study of the concepts and theory of Formal Language and the relationship to automata; types of grammars; Turing machine. (SP)

Prerequisite: CPS 2232.

CPS 4601 Human Computer Interaction Design (3)

Knowledge and skills for conceptualizing, designing, implementing, and evaluating software applications and computing technologies for the benefit of the user. Human, technological, and organizational concerns are addressed in project-based learning experiences. (SP)

Prerequisite: CPS 3250 or Tech 2925

CPS 4801 Artificial Intelligence (3)

Representation of knowledge; reasoning models; language learning. (SE)

Prerequisites: CPS 3250.

CPS 4881, 4882 or 4883 Independent Study in Computer Science (3)

Advanced topics in Computer Science which are not available in courses offered by during the semester. An independent course of study is developed by the student under the direction of a faculty member in the department; an independent study contract is used. May be repeated up to three times; can be used as a major elective. (AN)

Prerequisite: Faculty Permission

CPS 4893 Senior Seminar in Computer Science (3)

An in-depth exploration of one or more current issues in Computer Science, involving the application of a variety of concepts taken from throughout the Computer Science curriculum.

Prerequisite: Completion of 30 semester hours in Computer Science at the 2000 level or above.

CPS 4931 Distributed Systems Applications (3)

Principles and concepts along with the design and development of distributed systems applications. Concurrent operating systems and database requirements for the development of a transaction processing application in a network environment, using the client/server paradigm. (FA)

Prerequisite: CPS Core and CPS3962.

CPS 4951 Senior Project (3)

A software implementation course that integrates theory and practice in design and development of a large computer information system. The student will choose a project, and then research, design, implement, test, document, demonstrate and present results to the class. The instructor must approve the project. (SP)

Prerequisites: Completion of 30 semester hours in Computer Science at the 2000 level or above.

CPS 4961 Senior Research (3)

A student(s) will investigate and contribute to a specialization area of the research of a faculty member, taken from any Computer Science specialty. This will give the student real experience in a Computer Science research team.

Prerequisites: Completion of 30 semester hours in Computer Science at the 2000 level or above.

CPS 4980, 4981, 4982 Special Topics in Computer Science (3)

Research study of areas in computer science influenced by contemporary developments as well as interests and needs of students majoring in computer science. A maximum of nine semester hours may be taken in this area towards major electives.

Prerequisite: Permission of instructor.

CPS 4999 Cooperative Education in Computer Science (3)

Practical field experience providing resources other than those within the college environment. These credits cannot be used towards the 39 credits of course work required for computer science majors. (E)

Prerequisites: Minimum completion of CPS Core; minimum 3.00 GPA in major; minimum 2.75 cumulative GPA; approval of advisory committee.

Information Technology

ADMISSION REQUIREMENTS:

The Department Computer Science has formally adopted the following standards for admission to all options of the Information Technology major:

1. Minimum cumulative GPA of 2.5 at the time of admission to the major.
2. At least 13 credits of TECH courses with a grade of "C" or better in each and these credits must have been taken at Kean University.

B.S. DEGREE INFORMATION TECHNOLOGY

Information technology majors are prepared to think critically and creatively to succeed in challenging careers in information technology or pursue graduate degrees by using current technical concepts to analyze user needs and integrate IT-based solutions for the changing technological and social environments in a global economy. Curriculum objectives include the design, development, implementation, support and management of computer-based information technology, including network design, development, and management; interactive multimedia, new media, digital media application development; computer and video game development; net-centric computing and security; and Web system management.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

GENERAL EDUCATION 35

FOUNDATIONS REQUIREMENTS 13

GE 1000	Transition to Kean ¹	1
OR		
GE 3000	Transfer Transitions ¹	1
ENG 1030	College Composition	3
MATH 1000	Algebra for College Students #	3
COMM 1402	Speech Communication	3
GE 2024	Research and Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

<i>Humanities</i>	6
*ENG 2403 World Literature (Select one course from below)	3
Fine Arts or Art History	3
Philosophy or Religion	3
Foreign Languages	3
Music or Theatre	3
Interdisciplinary	3
<i>Social Sciences</i>	6
*HIST 1062 Worlds of History (Select one course from below)	3
Psychology	3
Economics or Geography	3
Political Science	3
Sociology or Anthropology	3

Interdisciplinary	3
Science & Mathematics	7
*MATH 1054 Precalculus ##	3
Lab Science I	4

G.E. AND MAJOR CAPSTONE

TECH 4513	Senior Project Seminar in Technology	3
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ADDITIONAL REQUIREMENTS*** 26

MATH 2110	Discrete Structures	3
MATH 2526	Applied Statistics	3
CPS 1231	Fund. of Computer Science**	4
CPS 2231	Comp Org. & Prog.	4
CPS 2240	IT Data Structures	3
CPS 3498	Computer Security	3
MGS 3030	Human Resource Mgmt	3
COMM 2405	Public Speaking	3

INFORMATION TECHNOLOGY MAJOR*** 44

MAJOR CORE REQUIREMENTS 13

TECH 1010	Information Technology Foundations	3
TECH 1500	Data Comm. Technology	4
TECH 2900	Preparation Tech Docs (WE)	3
TECH 2920	Computers in Tech	3

MAJOR CONCENTRATION REQUIREMENTS 9

TECH 2504	Digital Circuits & Systems	4
TECH 2925	Web Client-Side Programming	3
TECH 3520	Networking Essentials	3
TECH 3525	Unix/Linux OS	3
TECH 3720	Database Systems	3
TECH 3910	IT Project Mgmt	3

MAJOR ELECTIVES 12

12 credits in technology at the 3000 level or above selected with approval of departmental advisor.

FREE ELECTIVES 15

(50% of free electives must be taken at the 3000-4000 level)
(ID 1400 Computing in Modern Society for 3 credits is recommended if Math 1000 is needed)
*MGS 2030 is a pre-req for MGS 3030

TOTAL 120

Note on Free Electives
Tech Cooperative Education may be counted as a free elective (no more than 6 S.H.).

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

Students eligible to take MATH 1054 Precalculus based on their placement test may take that course in place of MATH 1000 and take an additional three credits in Free Electives to total 120 S.H.

Students eligible to take MATH 2415 Calculus I based on their placement test may take that course in place of Math 1054. In that case, MATH 2415 will fulfill the Distribution requirement and the student may take an additional three credits in Free Electives to total 120 S.H.

* General Education Required

** Students who have had prior programming experience may enter CPS 2231 directly. In this case, CPS 2231 will be counted as the general education requirement and the student may take another 4 credits in Major Electives to total 120 S.H.

***All major courses, additional requirements and concentration courses, including the capstone, require a grade of C or better.

MINOR IN INFORMATION TECHNOLOGY†

TOTAL CREDITS IN INFORMATION TECHNOLOGY 18

MINOR REQUIRED COURSES 6

TECH 1010	Information Technology Foundations	3
TECH 2925	Web Client-Side Programming	3

INFORMATION TECHNOLOGY ELECTIVES 12

2 technology courses at the 2000 level or above.

2 technology courses at the 3000 level or above.

SUPPORTING COURSES 14

CPS 1231	Fundamentals of Computer Science	4
CPS 2231	Computer Organization and Programming	4

*MATH 1000 College Algebra 3

*MATH 1054 Precalculus 3

*Waived for students who have completed the equivalent of this course in high school.

*ID1400 accepted for Math Education Majors

†All minor required courses, TECH electives and supporting courses, require a grade of C or better.

TECHNOLOGY COURSES

TECH 1010 Information Technology Foundations (3)

Fundamental concepts, skills, and capabilities of information technology; human-computer interface; the basics of networking; the world wide web; digitizing information and multimedia; principles of computer operation; privacy and digital security; database fundamentals; computational thinking fundamentals. (E)

Prerequisite: None.

Co-requisite: Math 1000 or equivalent.

TECH 1100 Technology Systems (3)

Explores the systems approach to Technology using the input, process, output, feedback and control model. Problem analysis and solution activities will investigate materials, processes, resources, organizations, and products as they apply to the subsystems of construction, manufacturing, communication, and energy/power/ transportation. (AN)

TECH 1500 Data Communications Technology (4)

This course will cover a broad range of technical topics from the nature of data and data transmission systems to protocols and data networks. Hands-on laboratory experiences will be a major component of this course. (E)
Prerequisite: Math 1000 or equivalent.

TECH 2410 Computer Animation (3)

The detailed study of complex solids modeling, parametric design, animation of objects and mechanisms in virtual space. (AN)
Prerequisite: TECH 1010 or CPS 1231.

TECH 2504 Digital Circuits and Systems (4)

A study of digital circuits and systems. Introduces number system and Boolean Algebra topics. Digital circuits and systems are designed and analyzed. Topics covered are: logic gates, Flip-Flops, registers, counters, memories, synchronous and asynchronous sequential networks, state machines. The design of combinational logic networks sequential machines will be the primary focus of this course. Special emphasis will be placed on techniques essential to the design of state machines. (E)
Prerequisite: TECH 1500.

TECH 2740 Database Concepts and Applications (3)

Fundamental concepts and standards for database management systems; database design; database implementation; storage and performance considerations; application of database management systems.
Prerequisite: CPS 2231.

TECH 2900 Preparation of Technical Documents (3)

Writing experience for technical/business related fields. Content will include instruction and experience in writing resumes, frequently used communications, technical reports and specifications. (FA)
Prerequisite: ENG 1030.
Writing Emphasis Course

TECH 2920 Computers Systems (3)

An introductory course covering the operational characteristics of modern computing systems and their applications. Computer systems and architecture are examined, particularly operating systems. (SP)
Prerequisites: CPS 1231.

TECH 2925 Web Client-Side Programming (3)

Fundamental concepts and standards for web client-side development. Design and development of client-side web pages using eXtensible Hypertext Markup Language (XHTML), Javascript, Cascading Style Sheets (CSS), Document Object Model (DOM), Asynchronous Javascript and XML (AJAX) and web browsers. (FA)
Prerequisite: CPS 2231.

TECH 3200 Design Fundamentals (3)

An investigation of the basic aspects and the traditional concepts of design and of their implication to contemporary design. (AN)
Prerequisite: CPS 2231

TECH 3220 Computer Aided Design I (3)

This course presents a comprehensive introduction to methods and applications of computer aided design systems. Emphasis is placed in the use of CAD hardware and software for automating the design processes and implementing the CAD into planning, costing, database design, productivity and automated production. (AN)
Prerequisite: TECH 1010.

TECH 3230 Computer Aided Design II (3)

This course presents advanced techniques using computer aided design software on a micro-based system. Emphasis is placed on menu macros, customizing for 3-D, script files, and an introduction to AutoLISP programming. (AN)
Prerequisite: TECH 3220.

TECH 3250 Advanced CAD (3)

This course presents a comprehensive introduction to the methods and applications of surface, wire and solids modeling using 2D as well as 3D CAD software. Emphasis is placed in the use of the newly emerging expert systems approach to CAD through applications of artificial intelligence and automated design generation Techniques. (AN)
Prerequisite: TECH 3220.

TECH 3510 Microprocessors (4)

An introduction to 16-bit microprocessor architecture with special emphasis upon the Intel 8086/88 microprocessor family. Assembly language programming, design and interfacing techniques will be covered. (AN)
Prerequisite: TECH 2504.

TECH 3520 Networking Essentials (3)

The function and structure of networking communication protocols, TCP/IP architecture, operational characteristics and design of Local Area Networks (LANs) and Wide Area Networks (WANs), and the operation and purpose of internetworking devices will be covered in this course. (SP)
Prerequisites: TECH 2920 and CPS 2231.

TECH 3525 Unix/Linux Operating Systems (3)

Introduction to UNIX or Linux operating systems. Emphasis on hand-on laboratory assignments, which reinforce classroom lectures. (FA)
Prerequisites: CPS 2231 and TECH 2920.

TECH 3601 New Media Programming I (3)

Fundamental concepts and standards for new media development; design and implementation processes; navigational strategies; time-driven and event-driven models of interaction; incorporating graphics, text, video, sound, animation and interactivity. (SP)
Prerequisites: TECH 2925 or CPS 3250.

TECH 3602 New Media Programming II (3)

Advanced concepts for new media development; advanced programming constructs; XML and database integration; custom component design and development; security. (FA)
Prerequisites: TECH 3720 (or CPS 3740) and TECH 3601.

TECH 3620 Mobile Application Development (3)

Core principles and techniques for building mobile applications, using development environments, while maintaining performance, efficiency, consistent interface design, form factors, and responsiveness. (FE)
Prerequisite: CPS 2231 and TECH 2920.

TECH 3640 Virtual and Augmented Reality (3)

Fundamental concepts of virtual reality (VR) and augmented reality (AR) technologies; hardware devices and software tools; building virtual worlds. (FO)
Prerequisite: CPS 2231.

TECH 3650 Game Design and Development (3)

Fundamental concepts related to computer/video game design and development; hardware devices and software tools of game development; game industry; mathematics, physics, and psychology of games; game engines, graphics, rendering, modeling, and the user interface of games. (AN)
Prerequisite: CPS 2231

TECH 3720 Database Systems (3)

Concepts and standards for database management systems; database design; database implementation; storage and performance considerations; application of database management systems. (FA)
Prerequisite: CPS 2240 and Math 2110.

TECH 3910 IT Project Management (3)

Practical approaches to managing information technology projects. Topics include IT project management context, life cycles, scope, time, cost, sizing, planning, scheduling, quality, risk, analysis, communications, procurement and current issues in information systems project management. (SP)
Prerequisite: TECH 3525.

TECH 4181 Independent Study in Industrial Education (3)

Industrial Education majors are given the opportunity to develop independent projects or research studies in their field. Each student is expected to initiate an independent program of study under the close supervision of a faculty member. Student is responsible for the plan of work, its accomplishment and suitable presentation at completion of course. Hours to be arranged by student and instructor; study shall involve a minimum of 135 clock hours of classroom and/or laboratory work. Enrollment is by permission of advising faculty member and in compliance with University policy concerning independent study. (AN)

TECH 4182 Independent Study in Industrial Education II (3)

A continuation of TECH 4181. (AN)

TECH 4425 CIM Programming and Database (3)

Application of modern object oriented computer programming and database management Techniques in solving computer integrated design and manufacturing. Development of user interfaces, algorithms, database management using standard relational databases and interface to World Wide Web/Internet/ Intranet. (AN)
Prerequisites: TECH 2740.

TECH 4440 Robotics Programming (3)
 Comprehensive study of robotics technology and application of industrial robots. Students are introduced to different robotics programming methodologies. Motion planning, simulation, and experimental projects are essential components of the course work. (FA)
Prerequisite: TECH 2504, TECH 3525 and CPS 2231.

TECH 4513 Senior Project Seminar in Technology (3)
 Students will utilize appropriate research, analysis and design tools required to solve a technical problem related to their major technical area of (networking, electronics, telecommunications, etc.). The major intent of this course is to provide the students with the opportunity to synthesize what they have learned in all their technical courses, and solve a timely "real world" problem. Students will produce a working model or prototype of their solution to the technical problem. (SP)
Prerequisites: Completion of 30 semester hours in Technology at the 2000 level or above.

TECH 4524 Switches and Routers (3)
 This course enhances the learner's theoretical and practical knowledge of the use of switches and routers in local area networks. Hands-on practical experiences will be emphasized throughout this course. (2 hr. lec./2 hr. lab). (FA)
Prerequisite: TECH 3520.

TECH 4525 Digital Signal Processing (3)
 A practical approach to the analysis and design of infinite impulse response, finite impulse response, continuous time, linear, and time invariant filters. Laboratory experimentation and computer simulation of digital filters will be emphasized. (AN)
Prerequisites: TECH 2920.

TECH 4527 System and Network Administration (3)
 Designed to provide student with classroom and laboratory experiences covering the configuration and management of network client and servers. Student will set up operational Windows and UNIX/Linux computer networks (2 hr. lec./2 hr. lab). (SP)
Prerequisite: TECH 3520 and TECH 3525.

TECH 4881, 4882 or 4883 Independent Study in Information Technology (3)
 Advanced topics in Information Technology which are not available in courses offered during the semester. An independent course of study is developed by the student under the direction of a faculty member in the department; an independent study contract is used. May be repeated up to three times; can be used as a major elective. (AN)
Prerequisite: Permission of instructor.

TECH 4980, 4981, 4982 Special Topics in Information Technology (3)
 Research study of areas in information technology influenced by contemporary developments as well as interests and needs of students majoring in information technology. A maximum of nine semester hours may be taken in this area towards major electives. (AN)
Prerequisite: Permission of instructor.

TECH 4996, 4997, 4998, and 4999 Cooperative Education in Information Technology (3)
 An opportunity for students majoring in Technology or Industrial Technology to obtain supervised work experience related to their major area of specialization. (E)
Prerequisites: Sophomore standing; 2.5 average in the major; completion of 12 semester hours in major specialization requirements which must include 3 semester hours of study related to the proposed work experience.
Limitations on assignment: Department approval.
Departmental elective for Information Technology majors.

INFORMATION TECHNOLOGY

ID 1400 Computing in Modern Society (3)
 Fundamental computing concepts, technology and skills used in modern society; problem abstraction and design principles; data and information representation; algorithm concepts; introduction to a programming language. (AN)

School of Mathematics

Executive Director, Dr. Louis Beaugris
C-232 (908) 737-3707

Administrative Assistant, Blanca Perez, C-233
(908) 737-3701

A major in the mathematical sciences is designed to fulfill several objectives: to develop mathematical reasoning through problem solving; to investigate the mathematical theory which facilitates an understanding of mathematical applications; to provide background for careers in applied mathematics and computer science or teaching of secondary school mathematics; to prepare for graduate studies in the mathematical sciences. These are achieved, with departmental advisement, through the appropriate selection of electives.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

(78200) B.A. IN MATHEMATICAL SCIENCES

OPTION: GENERAL

GENERAL EDUCATION SEMESTER HOURS (S.H.) **47-49**

FOUNDATIONS REQUIREMENTS¹ **13 S.H.**

GE 1000 Transition to Kean² 1

OR

GE 3000 Transfer Transitions² 1

**ENG 1030 College Composition 3

MATH 1054 Precalculus^{3,4} 3

COMM 1402 Speech Communication 3

GE 2024 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9 S.H.

*ENG 2403 World Literature 3

(Select two courses from different areas)

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages (Must take I and II for credits) 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 9 S.H.

*HIST 1062 Worlds of History 3

Select two courses from different areas:

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 11 or 12 S.H.

CPS 1231 Fund of Comp Science 3

Select two courses - one must be a lab science:

Physics 2091 General Physics I or

Physics 2095 Physics I (Recommended) 4

Additional Science courses - Biology, Chemistry, Physics, Astronomy, Geology, Meteorology, or Earth Science 3,4

Health/Physical Education 2-3 S.H.

ID 1225 Issues Contemporary Health or 3

ID 1010 Leisure & Recreation in Multicultural Society

OR

Physical Education 1

Physical Education 1

***/**G.E. AND MAJOR CAPSTONE 3 S.H.**

MATH 4890 Senior Seminar in Mathematics (WE)

ADDITIONAL REQUIRED COURSES: **4 S.H.**

CPS 2231 Computer Org and Programming 4

Special Notes:

WE: writing emphasis

ACADEMIC MAJOR: SEMESTER HOURS (S.H.) **40**

**** FOUNDATION CORE** **18 S.H.**

MATH 2415 Calculus I 4

MATH 2416 Calculus II 4

MATH 2995 Matrix & Linear Algebra 3

MATH 3415 Calculus III 4

MATH 3544 Probability & Math Stat. 3

****CONCENTRATION** **10 S.H.**

MATH 2800 Mathematical Software 1

MATH 3110 Intro to Proofs 3

MATH 3455 Differential Equations 3

MATH 3247 Abstract Algebra or

MATH 4451 Advanced Calculus 3

MAJOR ELECTIVES **12**

(With advisement, from 3000-4000 level)

MATH 3 3

MATH 3 3

MATH 3 3

MATH 3 3

FREE ELECTIVES **31-33 S.H.**

Additional courses in Computer Science, Physics or other Sciences, Technology, Economics or Management Science recommended.

No Mathematics courses allowed other than MATH 1000. 50% of free electives must be taken at the 3000-4000 level.

TOTAL **124**

Special Notes:

¹ See prerequisites and equivalencies

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

³ Students who do not qualify on the placement test to take MATH 1054 must take MATH 1000 first.

⁴ Students whose qualifying score on the placement test makes them eligible to take Math 2415 may take that course instead. In that case the student must take another 3 credits in free electives to total 124 S.H.

*G.E. required course

** Eng 1030 and all major courses require a grade of C or better

(78201) B.A. IN MATHEMATICAL SCIENCES

STATISTICS OPTION

GENERAL EDUCATION SEMESTER HOURS (S.H.) **47-49**

FOUNDATIONS REQUIREMENTS¹ **13 S.H.**

GE 1000 Transition to Kean² 1

OR

GE 3000 Transfer Transitions² 1

**ENG 1030 Composition 3

MATH 1054 Precalculus^{3,4} 3

COMM 1402 Speech Communication 3

GE 2024 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS:

Humanities 9 S.H.

*ENG 2403 World Literature 3

(Select two courses from different areas)

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages (Must take I and II for credits) 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 9 S.H.

*HIST 1062 Worlds of History 3

(Select two courses from different areas)

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 11 or 12 S.H.

CPS 1231 Fund of Comp Science¹ 4

(Select two courses - one must be a lab Science)

Physics 2091 General Physics I or

Physics 2095 Physics I (Recommended) 4

Additional Science course - Biology, Chemistry, Physics, Astronomy, Geology, Meteorology, or Earth Science 3,4

Health/Physical Education 2 or 3 S.H.

ID 1225 Issues Contemporary Health or 3

ID 1010 Leisure & Recreation in Multicultural Society

OR

Physical Education	1
Physical Education	1
*/**G.E. AND MAJOR CAPSTONE 3 S.H.	
MATH 4890 Senior Seminar in Mathematics (WE)	3
ADDITIONAL REQUIRED COURSES:	4 S.H.
CPS 2231 Computer Org and Programming	4
ACADEMIC MAJOR:	40
SEMESTER HOURS (S.H.)	
**FOUNDATION CORE	18 S.H.
MATH 2415 Calculus I	4
MATH 2416 Calculus II	4
MATH 2995 Matrix & Linear Algebra	3
MATH 3415 Calculus III	4
MATH 3544 Probability & Math. Stat.	3
** CONCENTRATION	16 S.H.
MATH 2526 Applied Statistics	3
MATH 3500 Statistical Software	1
MATH 3526 Applied Statistics II	3
MATH 3560 Regression Analysis	3
MATH 3580 Experimental Design	3
MATH 4545 Math Statistics	3
** MAJOR ELECTIVES	6 S.H.
(With advisement, from 3000 – 4000 level)	
MATH	3
MATH	3
FREE ELECTIVES:	31-33 S.H.
Additional courses in Computer Science, Physics or other Sciences, Technology, Economics or Management Science recommended.	
No Mathematics courses allowed other than MATH 1000 50% of free electives must be taken at the 3000 – 4000 level	
Special Notes:	
¹ See prerequisites and equivalencies.	
² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).	
³ Students who do not qualify on the placement test to take MATH 1054 must take MATH 1000 first.	
⁴ Students whose qualifying score on the placement test makes them eligible to take MATH 2415 may take that course instead. In that case the student must take another 3 credits in free electives to total 124 S.H.	
*G.E. required course.	
**Eng 1030 and all major courses require a grade of C or better	
TOTAL	124

B.A. IN MATHEMATICAL SCIENCES	
DATA ANALYTICS OPTION	
GENERAL EDUCATION SEMESTER HOURS (S.H.)	47-49
FOUNDATIONS REQUIREMENTS¹	13 S.H.
GE 1000 Transition to Kean ²	1
OR	
GE 3000 Transfer Transitions ²	1
**ENG 1030 College Composition	3
MATH 1054 Precalculus ^{3,4}	3
COMM 1402 Speech Communication	3
GE 2024 Research & Technology	3
DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS	
Humanities	9 S.H.
*ENG 2403 World Literature	3
(Select two courses from different areas)	
Fine Arts or Art History	3
Philosophy or Religion	3
Foreign Languages (Must take I and II for credits)	3
Music or Theatre	3
Interdisciplinary	3
Social Sciences	9 S.H.
*HIST 1062 Worlds of History	3
Select two courses from different areas:	
Psychology	3
Economics or Geography	3
Political Science	3
Sociology or Anthropology	3
Interdisciplinary	3
Science & Mathematics	11 or 12 S.H.
CPS 1231 Fund of Comp Science	3
PHYS 2091 or 2095 or CHEM 1083	4
Additional GE Science course (BIO, ES, ENV, CHEM, PHYS)	3,4
Health/Physical Education	2-3 S.H.
ID 1225 Issues Contemporary Health or	3
ID 1010 Leisure & Recreation in Multicultural Society	
OR	
Physical Education	1
Physical Education	1
*/**G.E. AND MAJOR CAPSTONE 3 S.H.	
MATH 4890 Senior Seminar in Mathematics (WE)	(3)
Special Note:	
WE: writing emphasis	
ADDITIONAL REQUIRED COURSES:	4 S.H.
CPS 2231 Computer Org and Programming	4

ACADEMIC MAJOR:	42 S.H.
SEMESTER HOURS (S.H.)	
** FOUNDATION CORE	18 S.H.
MATH 2415 Calculus I	4
MATH 2416 Calculus II	4
MATH 2995 Matrix & Linear Algebra	3
MATH 3415 Calculus III	4
MATH 3544 Probability & Math Stat.	3
** CONCENTRATION	15 S.H.
MATH 2526 Applied Statistics	3
MATH 3700 Big Data Computing	3
MATH 3710 Foundations of Data Analysis	3
MATH 4710 Big Data Visualization	3
MATH 4720 Statistical Data Mining	3
** MAJOR ELECTIVES	9 S.H.
(With advisement, from 3000 – 4000 level courses)	
Suggested Math Elective Courses:	
MATH 3760 Big Data Statistical Analysis I	3
MATH 3780 Big Data Techniques	3
MATH 3560 Regression Analysis	3
FREE ELECTIVES	25-27 S.H.
Additional courses in Computer Science, Physics or other Sciences, Technology, Economics or Management recommended.	
No Mathematics courses allowed other than MATH 1000.	
50% of free electives must be taken at the 3000-4000 level.	
TOTAL	120
Special Notes:	
¹ See prerequisites and equivalencies	
² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).	
³ Students who do not qualify on the placement test to take MATH 1054 must take MATH 1000 first.	
⁴ Students whose qualifying score on the placement test makes them eligible to take Math 2415 may take that course instead. In that case the student must take another 3 credits in free electives to total 120 S.H.	
*G.E. required course	
** ENG 1030 and all major courses require a grade of C or better	

(28297) B.A. IN MATHEMATICAL SCIENCES (TEACHER CERTIFICATION): 132 S.H.

OPTION: TEACHER CERTIFICATION

Students choosing this (P-12) option must make a formal application for admission to the Middle and Secondary Education (MSE) Department. Prior to taking education courses, all prerequisites must be met. See the description under the College of Education.

GENERAL EDUCATION: 48-49 SEMESTER HOURS (S.H.)

FOUNDATIONS REQUIREMENTS¹ 13 S.H.

GE	1000	Transition to Kean ²	1
OR			
GE	3000	Transfer Transitions ²	1
**ENG	1030	Composition ³	3
MATH	1054	Precalculus ^{4,5}	3
**COMM	1402	Speech Communication	3
GE	2024	Research & Technology	3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

<i>Humanities</i>		9 S.H.
*ENG	2403	World Literature 3
Select two courses from different areas:		
Fine Arts or Art History		3
Philosophy or Religion		3
Foreign Languages (must take I and II for credits)		3
Music or Theatre		3
Interdisciplinary		3
<i>Social Sciences</i>		9 S.H.
*HIST	1062	Worlds of History 3
PSY	1000	Gen Psychology 3
SOC	1000	Intro to Sociology or
ANTH	1800	Cultural Anthropology 3
<i>Science & Mathematics</i>		11 or 12 S.H.
CPS	1231	Fund of Comp Science 4
Physics	2091	General Physics I or
Physics	2095	Physics I 4
One course from Biology, Chemistry, Physics, Astronomy, Earth Science, Geology, Meteorology or Interdisciplinary 3,4		
<i>Health/Physical Education</i>		3 S.H.
ID	1225	Issues in Contemporary Health 3

/G.E. AND MAJOR CAPSTONE 3 S.H.**

MATH	4890	Senior Seminar in Mathematics (WE)	3
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ADDITIONAL, REQUIRED COURSES: 13 S.H.

CPS	2231	Comp Org and Prog	4
PSY	2110	Psychology of Adolescence	3
ID	2955	Disabled Pers in Amer Soc	3
One additional DIS/ID course (Physics, Computer Science, or Economics recommended)			3

Special Notes:

¹ See prerequisites and equivalencies.

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

³ Students who do not qualify on the placement test to take MATH 1054 must take MATH 1000 first.

⁴ Students whose qualifying score on the placement test makes them eligible to take Math 2415 may take that course instead. In that case the student must take another 3 credits in free electives to total 132 S.H.

ACADEMIC MAJOR: 40 SEMESTER HOURS (S.H.)

FOUNDATION CORE 18 S.H.

MATH	2415	Calculus I	4
MATH	2416	Calculus II	4
MATH	2995	Matrix & Linear Algebra	3
MATH	3415	Calculus III	4
MATH	3544	Probability & Math Statistics	3

****CONCENTRATION 13 S.H.**

MATH	2800	Mathematical Software	1
MATH	3110	Intro to Proofs	3
MATH	3342	Euclidean and Non-Euclidean Geometry	3
MATH	3455	Differential equations	3
MATH	3891	History of Mathematics	3

****MAJOR ELECTIVES 9 S.H.**

(with advisement, 3000-4000 level)

MATH			3
MATH			3
MATH			3

PROFESSIONAL EDUCATION 30 S.H.

Must pass Praxis I before applying for admission to the Middle and Secondary Education (MSE) Department.

Grades of B- or higher in professional education courses and "satisfactory" grades in EMSE 3801 and EMSE 4801 required.

Sophomore Level

EMSE	2801	Intro to Fld Exp Subj. Area K-12	3
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Junior Level

EDUC	3000	Curriculum Evaluation & Learner	3
EDUC	3401	Lang Arts/Reading K-12	3
EMSE	3122	Computers in Education	3
EMSE	3220	Mathematics Ed. K-12 WE	3
EMSE	3801	Field Exp. Subj Area K-12	2
EMSE	3903	Eng Lang Learning in America (taken w/EMSE 3801)	1

Senior Level

EMSE	4811	Prof. Internship/ Subj. Area K-12	9
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(Praxis II math exam must be passed before student teaching)

PROFESSIONAL/GE CAPSTONE 3

EDUC	4000	Teacher and Classroom	3
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FREE ELECTIVES 0-1 S.H. ***

Special Notes:

*GE. Required course; WE: Writing Emphasis

**All major courses require a grade of C. or better.

***No mathematics courses allowed other than MATH 1000

TOTAL 132

(78296) B.A. IN MATHEMATICAL SCIENCES (TEACHER CERTIFICATION): 137 S.H.

DUAL CERTIFICATION FOR TEACHERS OF STUDENTS WITH DISABILITIES AND P-12 MATH

B.A. DEGREE MATHEMATICAL SCIENCES

OPTION: DUAL CERTIFICATION FOR TEACHER OF STUDENTS WITH DISABILITIES AND P-12 MATH

Students who wish to be certified in both Mathematics and as Educator of Students with Disabilities should consult the Catalogue under Special Education programs for information on admissions and grade requirements for this dual certification program. Students choosing this option must make a formal application for admission to the Department of Special Education. Prior to taking education courses, all prerequisites must be met.

GENERAL EDUCATION 48-49 SEMESTER HOURS (S.H.)

FOUNDATIONS REQUIREMENTS¹ 13 S.H.

GE	1000	Transition to Kean ²	1
OR			
GE	3000	Transfer Transitions ²	1
**ENG	1030	College Composition	3
MATH	1054	Precalculus ^{3,4}	3
COMM	1402	Speech Communication	3
GE	2024	Research & Technology	3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

<i>Humanities</i>		9 S.H.
*ENG	2403	World Literature 3
Select two courses from different areas:		
Fine Arts or Art History		3
Music or Theatre		3
Philosophy or Religion		3
<i>Social Sciences</i>		9 S.H.
*HIST	1062	Worlds of History 3
PSY	1000	General Psychology ⁵ 3
SOC	1000	Intro to Sociology or
ANTH	1800	Cultural Anthropology 3
<i>Science & Mathematics</i>		11 or 12 S.H.
CPS	1231	Fund of Comp Science ¹ 4
Physics	2091	General Physics I or

Physics 2095	Physics I	4
One course from Biology, Chemistry, Physics, Astronomy, Earth Science, Geology, Meteorology or Interdisciplinary		
		3,4
Health/Physical Education		3 S.H.
ID 1225	Issues in Contemporary Health	3

/G.E. AND MAJOR CAPSTONE 3 S.H.**

MATH 4890	Senior Seminar in Mathematics (WE)	3
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ADDITIONAL REQUIREMENTS 16 S.H.

PSY 2110	Psychology of Adolescence	3
CPS 2231	Comp Org and Prog	4
+ID 2052	Human Exceptionality	3
ID 3051	Computer Tech in Today's Inclusive Society	3
ID 3163	Building Inclusive Environments Through Positive Behavioral Supports	3

Special Notes:

¹ See prerequisites and equivalencies

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

³ Students who do not qualify on the placement test to take MATH1054 must take MATH 1000 first

⁴ Students whose qualifying score on the placement test makes them eligible to take Math 2415 may take that course instead. In that case the student must take another 3 credits in free electives to total 137 S.H.

⁵ PSY 1000 is a prerequisite for PSY 2110

ACADEMIC MAJOR: 40 SEMESTER HOURS (S.H.)

*****FOUNDATION CORE 18 S.H.**

MATH 2415	Calculus I	4
MATH 2416	Calculus II	4
MATH 2995	Matrix & Linear Algebra	3
MATH 3415	Calculus III	4
MATH 3544	Probability & Math Statistics	3

CONCENTRATION 13 S.H.

MATH 2800	Mathematical Software	1
MATH 3110	Intro to Proofs	3
MATH 3342	Euclidean and Non-Euclidean Geometry	3
MATH 3455	Differential equations	3
MATH 3891	History of Mathematics	3

*****MAJOR ELECTIVES 9 S.H.**

(with advisement, 3000-4000 level)

MATH		3
MATH		3
MATH		3

PROFESSIONAL EDUCATION (C OR BETTER) 32

Must pass Praxis I and have a GPA of 3.0

before applying for admission to the Middle and Secondary Education (MSE) Department.

Sophomore Level

+SPED 2120	Introductory Field Exp**	3
+SPED 2200	The Multicultural Learner in Diverse Settings**	3

Junior Level

EDUC 3000	Curriculum Evaluation & Learner	3
+SPED 3000	Principles and Practices for the Contemporary Educator (WE)	3
+SPED 3001	Preprofessional Field Experience	2
+EMS3220	Mathematics Ed. K-12 (WE)	3
+EDUC 3401	Lang/Rdg in Sec Curr	3

Senior Level

EDUC 4000	Teacher and Classroom	3
SPED 4135	Professional Field Exp	3
(Prerequisite: Passing score on Praxis II Math Exam)		
(SPED 4135 and EDUC 4000 must be taken concurrently)		

FREE ELECTIVES: 0-1 S.H.****

Special Notes:

+ Prerequisite 3.0 Cumulative GPA

* G.E. required course; WE Writing Emphasis

** A grade of B or higher required

*** All major courses require a grade of C or better.

**** No mathematics courses allowed other than MATH 1000.

TOTAL 136-137

MINOR PROGRAMS

MATHEMATICAL SCIENCES MINOR

The Mathematical Sciences Minor will be granted upon completion of 18 semester hours of Mathematics courses at the 2000 level or above. Required courses are MATH 2415 and MATH 2416. Of the remaining 12 semester hours, 6 must be at the 3000 level or above.

STATISTICS MINOR

REQUIREMENTS 18

MATH 2415	Calculus I	4
MATH 2416	Calculus II	4
MATH 2526	Applied Statistics	3
MATH 3544	Probability and Mathematical Statistics	3
MATH 3570	Multivariate Analysis	3
MATH 4545	Applications of Mathematical Statistics	3

ELECTIVES 3

(Choose one of the following)

MATH 2036	Non-Parametric Statistics	3
MATH 3511	Games and Gambling	3
MATH 4805	Mathematical Modeling	3

MATH 4999	Work Study Cooperative Education in Statistics	3
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TOTAL 21

MATHEMATICS COURSES

ELEMENTARY MATHEMATICS

MATH 1000 Algebra for College Students (3)

Rational Expressions, Radical and Exponential Expressions. Quadratic, rational and radical equations and inequalities Systems of Equations. Properties of Functions and their Graphs., polynomial functions, inverse functions. Conic sections. Binomial Theorem. (E)

Prerequisite: MATH 0901 or Placement Test Results General Education Foundation Course

MATH 1013 Finite Mathematics with Applications (3)

Sets, counting, probability, matrices, and linear programming. Practical applications of contemporary mathematics and mathematical models. For non-science majors.

Prerequisite: MATH 0901 or Placement Test Results Approved General Education Foundation Course

MATH 1017 Statistics Service Learning Module (1)

Service learning is the process of incorporating student volunteerism within an academic framework while providing services to the community resulting in the development of skills, knowledge and experience.

Co-requisite: Must be taken in conjunction with MATH 1016.

MATH 1044 Precalculus for Business (3)

Equations, inequalities, and their applications. Functions and graphs, lines, parabolas and systems of equations, exponential and logarithmic functions, compound interest, present value, annuities and amortization of loans. Matrix algebra, Gauss-Jordan elimination and applications. Inverse of a matrix, solutions of systems of equations and inequalities. Problem solving methods. Students will be required to acquire a specified graphing calculator. Can not be used as a prerequisite for MATH 2415. (E)

Prerequisites: MATH 1000 or equivalent

Approved General Education Distribution Course

MATH 1054 Precalculus (3)

Exponential and logarithmic functions. Trigonometric functions with emphasis on trigonometric identities and trigonometric analysis. Complex numbers, polar coordinates, plane vectors and trigonometric forms of complex numbers. Arithmetic and geometric sequences and series. Problem solving methods. Students will be required to acquire a specified graphing calculator. (E, SS1, SS2)

Prerequisites: MATH 1000, or the equivalent, or a qualifying score on the placement examination.

Approved General Education Distribution Course

LOGIC AND FOUNDATIONS

MATH 2110 Discrete Structures (3)

Logic, set theory, counting, relations, recursion, graphs and context free language. 3 hours lecture. (E)

Prerequisite: MATH 1054 or equivalent.

MATH 3110 Introduction to Proofs (3)
Transition course to advanced mathematics. Covers various techniques of proofs, built around topics from elementary logic, set theory, elementary number theory, and functions. 3 hours lecture (E)
Prerequisite: Math 2415

MATH 3120 Combinatorics (3)
Sets, counting, recurrence relations, generating functions, graph theory. (Three hours lecture.) (FO)
Prerequisite: MATH 3110.

MATH 3155 Mathematical Logic (3)
A survey of classical and computational logic. The propositional calculus. Introduction to programming in logic. Fundamentals of neural networks. (SO)
Prerequisite: MATH 3110.

ALGEBRA

MATH 2995 Matrix and Linear Algebra (3)
Systems of linear equations, matrices, determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, applications. Use of calculators and computers. (3 hours lecture.) (E)
Prerequisite: MATH 1054
Co-requisite: MATH 2415

MATH 3225 Computational Methods in Matrix and Linear Algebra II (3)
A continuation of the topics discussed in Math 2995. Additional topics include inner product spaces, Gram-Schmidt orthogonalization, least squares, canonical forms, spectral theory, general linear transformations, and applications in various disciplines. (3 hours lecture) (E)
Prerequisite: MATH 2416 AND MATH 2995

MATH 3247 Abstract Algebra I (3)
Elementary group theory: subgroups, cyclic and permutation groups, direct products, Lagrange's Theorem, normal subgroups and quotient groups, homomorphisms and isomorphisms, the Sylow Theorems; use of a computer. (FA)
Prerequisite: MATH 3110

MATH 3248 Abstract Algebra II (3)
Rings, integral domains, fields, ideals and quotient rings, rings of polynomials, homomorphisms, extension field and vector spaces; use of computer. *Prerequisite:* MATH 3247

GEOMETRY

MATH 3342 Euclidean and Non-Euclidean Geometry (3)
Euclidean geometry from a modern viewpoint; non-Euclidean geometries; coordinate geometry and transformations as time permits. (Three lecture hours.) (E)
Prerequisite: MATH 3110.

ANALYSIS

MATH 2400 Calculus for Business and Economics (3)
Differential and integral calculus. Applications of Differential and Integral Calculus in Business, Economics, Life and Social Sciences. Curve sketching, Maxima and Minima, Integration techniques. Applications of Integration, Area between curves, Consumers' and Producers' Surplus. Applications of calculus to economics and managerial science. This course may not be substituted for the math 2411, 2412 sequence.
Prerequisite: MATH 1044 or permission of instructor

MATH 2411 Calculus I (3)
Functions, limits, and continuity, differentiation of algebraic and trigonometric functions, tangent and normal lines, Newton's method, optimization and related rate problems. Applications to the physical, biological and managerial sciences. Computer applications.
Prerequisite: MATH 1054 or a qualifying score on the placement test.

MATH 2412 Calculus II (3)
Antiderivatives, definite integrals, integration of algebraic and transcendental functions, numerical integration, elementary differential equations. Area, volume, arc length, surface area. Applications to the physical, biological and managerial sciences. Computer applications.
Prerequisite: MATH 2411

Math 2415 Calculus I (4)
Functions, limits, continuity, differentiation and integration of algebraic and trigonometric functions, tangent and normal lines, optimization, related rate problems, definite integral and the fundamental theorem of calculus. Applications to the physical, biological and managerial sciences. (4 hours lecture) (E)
Prerequisite: MATH 1054

Math 2416 Calculus II (4)
Integration of algebraic and transcendental functions including exponential and logarithmic functions, numerical integration, and elementary differential equations. Area, volume, arc length, and surface area. Indeterminate forms and improper integrals. Infinite sequences and series, convergence tests. Power series. Taylor series, series approximation of functions, error bounds. Applications to physical, biological, and managerial sciences. Computer laboratory usage. (4 hours lecture) (E)
Prerequisite: MATH 2415

Math 3415 Calculus III (4)
Analytic geometry in three dimensions, parametric equations. Polar coordinates, vectors, calculus of vector valued functions. Multivariable functions, partial derivatives, gradients and directional derivatives. Multiple integrals. Vector fields, line and surface integrals, theorems of Green, Gauss, and Stokes. Optimization. Applications to physical sciences. Computer/calculator used. 4 hours lecture (E)
Prerequisite: MATH 2416

MATH 3451 Calculus III (3)
Indeterminate forms, vector algebra and calculus in the plane and 3-space, analytic space geometry, multivariable functions, partial derivatives, gradients. Optimization problems. Applications to the physical sciences. Computer applications.
Prerequisite: MATH 2412

MATH 3452 Calculus IV (3)
Infinite sequences and series, convergence tests, series of functions, power series, Taylor series and polynomials, numerical approximations. Multiple integrals, integral transformations. Vector integral calculus, line and surface integrals, theorems of Green, Gauss and Stokes. Applications to the physical sciences. Computer applications.
Prerequisite: MATH 3451

MATH 3455 Differential Equations (3)
First order equations, linear equations, numerical methods, Laplace Transforms and systems of equations. Emphasis on applications of differential equations to the solution of scientific problems from such areas as physical science, biology, economics, psychology and social science. (E)
Prerequisite: MATH 2412 or MATH 2416

MATH 3940 Numerical Analysis (3)
Solution of equations and systems of equations, analysis of errors in numerical methods, numerical differentiation and integration, approximation, interpolation, solutions of differential equations. Use of computers. 3 hours lecture (SO)
Prerequisites: CPS 2231, and MATH 2412 or MATH 2416

MATH 4404 Introduction to Applied Mathematics (3)
Study of power series solution to differential equations, Bessel functions, Legendre polynomials, partial differential equations, boundary value problems, Fourier series and integrals, the Sturm-Liouville problem and the Gamma function. Computer applications and simulations. (SE)
Prerequisite: MATH 3452 or MATH 3415

MATH 4451 Advanced Calculus I (3)
Emphasis on formal definitions and proofs. Functions of one or more variables, sequences, limits, continuity, differentiation, integration, partial differentiation, transformations, and sequences of functions, uniform convergence, line and surface integrals, vector analysis and applications. 3 hours lecture (FA)
Prerequisite: Math 3452 or Math 3415

MATH 4452 Advanced Calculus II (3)
Functions of several variables, partial differentiation, transformations, power series, uniform convergence, line and surface integrals, and vector analysis, including standard theorems and applications.
Prerequisite: MATH 3452 or permission of the instructor.

MATH 4465 Complex Variables (3)
Complex numbers, analytic functions, elementary functions and transformations, complex integration, power series, residues, poles, conformal mapping, and applications. (SE)
Prerequisite: MATH 3452 or MATH 3415

PROBABILITY AND STATISTICS

MATH 2036 Non-Parametric Statistics (3)
An introduction to useful and simple techniques that have wide applicability, including models and statistical procedures; one, two, and K-sample techniques; goodness of fit tests; correlation and regression. Use of computers.
Prerequisite: One course in statistics.

MATH 2526 Applied Statistics (3)
Statistical techniques of univariate and bivariate data analysis, probability, discrete and continuous random variables, sampling distributions, estimation, hypothesis tests about a single population parameter and simple correlation and regression. Computer assisted statistical analysis and interpretation of the results. (E)
Prerequisite: MATH 1054

MATH 3500 Statistical Software (1)
Introduction to the statistical software SAS or SPSS. Students learn the fundamentals of the SAS or SPSS software and its applications to descriptive and inferential statistical analysis of various real world problems from social and industrial fields. (E)

Prerequisite: MATH 2526

MATH 3511 Games and Gambling (3)
Games of chance, combinatorics, probability and game theory. Standard and unusual games are played and then subjected to rational analysis in the face of uncertainty. Historical anecdotes. Role of games in artificial intelligence. Utilization of campus computing equipment.

Prerequisite: A course in statistics or computer science.

MATH 3526 Applied Statistics II (3)
Statistical inference about a single population and about two populations, Analysis of variance, Categorical data analysis, Nonparametric statistical techniques, Simple linear regression and correlation, Multiple regression, use of statistics software, three (3) semester hours. (SO)

Prerequisite: MATH 2526

MATH 3544 Probability and Mathematical Statistics (3)

A probability course exploring sample spaces, random variables and probability laws, sequences and series for random variables, limit theorems, mathematical expectation, distributions such as binomial, Poisson, normal, estimation, hypothesis testing. Applications of Chi-Square, Student's T, and Normal Distributions. Graphing calculator will be utilized, Three (3) semester hours (E)

Prerequisite: MATH 2416.

MATH 3560 Regression Analysis (3)

Linear regression, Multiple regression, Regression diagnostics, Analysis of variance for regression, inferences of regression parameters, Confidence intervals and prediction intervals for regression model, Matrix approach for regression, model building, nonlinear estimation, use of statistics software; three (3) semester hours. (FO)

Prerequisite: Math 3526 or permission of instructor.

MATH 3570 Multivariate Analysis (3)

Multiple regression, hypothesis testing in multiple variables, multiple, partial, and multiple-partial correlation, polynomial regression, one-way ANOVA, two-way ANOVA, MANOVA, analysis of covariance, logistic regression, discriminant analysis, factor analysis. Semester Hours Three (3) (SE)

Prerequisites: MATH 2995 and MATH 2526

MATH 3580 Statistical Experimental Design (3)

Introduction to the principles of experimental design and analysis of data from designed experiments with emphasis on applications. Topics include single factor experiments, repeated measures, randomized block designs, Latin squares, factorial experiments, nested models and split-plot designs. Statistical software packages will be utilized. (FE)

Prerequisite: MATH 2526

MATH 3590 Sampling Techniques (3)

Random sampling, systematic sampling, stratified random sampling, ratio estimation, cluster sampling with equal and unequal probability, probability proportional to size sampling, sample design and estimation methodology, planning and designing sample surveys, sample survey methodology statistical software will be used. Semester hours: Three (3). (SO)

Prerequisite: MATH 2526

DATA ANALYTICS

MATH 3700 Big Data Computing (3)

This course covers R Programming language for effective Data Analytics, Practical issues in statistical computing such as generic programming language concepts for a high-level statistical language, including processing Big Data from the web, from APIs and from databases in various formats; constructing exploratory summaries of data in support of a specific question, and creating visualizations of multidimensional data using exploratory multivariate statistical techniques. Working examples with Big Datasets are provided from social, media, scientific and economic fields.

Prerequisite: MATH 2415

MATH 3710 Foundations of Data Analysis (3)

This course covers the fundamentals of data analysis. Classifications of data types and formats. Hypothesis testing and inferential analysis for numerical and categorical data. Programming and visualization techniques applied to big data. Interaction with databases. Practice examples with large data sets are provided from educational, social, scientific and economic fields to formulate, analyze, interpret and write data analysis reports.

Prerequisite: Math 2415 or Math 2400

MATH 3760 Big Data Statistical Analysis I (3)

Big Data descriptive statistics, correlations in non-homogeneous groups, non-linear relations between variables, missing data, biases, t-test, post-hoc procedures, discriminant function analysis, statistics in cross-tabulation tables, breakdowns, stub and banner tables, 2x2 tables, multi-way tables, control variables, multi-responses, and dichotomies. ANOVA/MANOVA statistical analysis for repeated measures, nested designs, multi-variate designs, between groups designs, repeated measures designs, assumption and effects of violating assumptions. R software will be used.

Prerequisite: MATH 2526

MATH 3780 Big Data Techniques (3)

Introduction to various techniques drawn from mathematics and statistics to help conduct analytics on large data sets. Data compression and organization, dimensionality reduction, separation of signal from noise and mixed data, clustering techniques, introduction to compressive sensing, and model building techniques.

Prerequisites: MATH 2415 and MATH 2995

MATH 4710 Data Visualization (3)

Data visualization is the process of communicating information in graphical form. This course will introduce the concepts, models and techniques used to create effective and useful visualizations to learn how to acquire, parse, analyze large data sets and to visualize multivariate, text-based, geospatial, hierarchical, and network-graph based data. Students will utilize up-to-date visualization software tools and techniques.

Prerequisite: Math 3700

MATH 4720 Statistical Data Mining (3)

This is an introductory course to statistical machine learning. It covers some fundamental concepts, popular techniques, and algorithms in statistical machine learning. Topics include: probabilistic reasoning, Markov networks, brief learning, supervised learning, unsupervised learning, linear models, latent linear models, and dynamical models.

Prerequisite: MATH 3710

MATH 4500 Non-Parametric Statistical Methods (3)

The dichotomous data problem, the one-sample and two-sample location problems, distribution-free rank test for dispersion and the difference in two populations, the one-way layout, distribution-free tests, multiple comparisons and the two-way distribution-free tests. Use of statistics software. Three (3) Semester hours. (FO)

Prerequisite: MATH 3526

MATH 4545 Mathematical Statistics (3)

Probability, distributions, Expectations, limit theorems, parameter estimation, testing hypotheses and assessing goodness of fit, comparing two samples, analysis of categorical data, analysis of variance, and linear least square regression analysis. Semester Hours: Three (3) (SE)

Prerequisite: Math 3544

MATH 4550 Statistical Quality Control (3)

Shewhart's control charts; moving average charts, statistical process-control techniques; capability, stability and quality; charts for binomial and Poisson data counts; three-way control charts, acceptance sampling; estimating fraction nonconforming. Statistics software will be utilized. Three (3) semester hours. (FE)

Prerequisite: MATH 3526

MATH 4560 Actuarial Mathematics (3)

Mathematics of interest, present value of basic annuities, loan repayment, the sinking-fund method, Makeham formula, bond prices and amortization, spot rates, stocks and options, futures and forward contracts, foreign currency exchange rates, practical applications in the mathematics of financial analysis. Statistics software will be utilized. Three (3) semester hours (FE)

Prerequisite: MATH 3544

NUMBER THEORY

MATH 3624 Number Theory (3)

Properties of the integers: divisibility, primes, theory of congruence, Diophantine equations, number theoretic functions with a historical study of important problems. Use of computers. (FE)

Prerequisite: MATH 3451 or MATH 3415

APPLICATIONS

MATH 2800 Mathematical Software (1)

Introduction to mathematical software. Students apply mathematical software and computer algebra systems to perform numerical and symbolic calculations and to solve computational problems in calculus, matrix theory, differential equations and numerical analysis. (E)

Prerequisite: MATH 3451 or MATH 3415

MATH 3801 Independent Study in Mathematics (1)

A mathematical sciences topic that is not covered in any of the courses offered by the mathematics department, and independently studied by the student under the supervision of faculty. (E)

Prerequisite: Permission of instructor

MATH 3802 Independent Study in Mathematics (2)

A mathematical sciences topic that is not covered in any of the courses offered by the mathematics department, and independently studied by the student under the supervision of faculty. (E)

Prerequisite: Permission of instructor

MATH 3815 Cryptology (3)

History of cryptography, monoalphabetic substitution, multiliteral substitution systems, periodic polyalphabetic ciphers, digraphic substitution, transposition systems, aperiodic systems including simpler varieties of machine ciphers, code systems. Use of computers. (FO)

MATH 3891 History of Mathematics (3)

Survey of major mathematical developments up to the nineteenth century, including the development of the number system, Euclidean and non-Euclidean geometry, algebra, calculus, probability and number theory. Emphasis will be on mathematical concepts from a historical perspective. 3 hours lecture. (E)

Prerequisite: MATH 2412 OR MATH 2416

MATH 4801 Independent Study in Mathematics (1)

An advanced topic in undergraduate mathematics that is not covered in any of the courses offered by the mathematics department, and independently studied by the student under the supervision of faculty. (E)

Prerequisite: Permission of instructor

MATH 4802 Independent Study in Mathematics (2)

An advanced topic in undergraduate mathematics that is not covered in any of the courses offered by the mathematics department, and independently studied by the student under the supervision of faculty. (E)

Prerequisite: Permission of instructor

MATH 4805 Mathematical Modeling with Applications (3)

An approach for translating real-world phenomena and problems into the language of mathematics. Techniques of mathematical model construction and solution. Use of web applets and/or computer software. (E)

Prerequisite: Math 3544

MATH 4809 Special Topics in Mathematics (3)

Research study of areas in mathematics influenced by contemporary developments as well as interests and needs of students majoring in mathematics. The subject of a semester's work varies, and course may be taken for credit more than once.

Prerequisite: Permission of the instructor.

MATH 4815 Advanced Cryptanalysis (3)

Overview of electronic cryptosystems, bitstream generation, irreducible and primitive polynomials, Galois fields, sequence complexity, the Berlekamp Massey Theorem, correlation immunity, the Likelihood Ratio Test, exponentiation ciphers, discrete logarithms, public key systems. Use of computers.

Prerequisite: MATH 3815 or permission of instructor.

MATH 4890 Senior Seminar in Mathematics (3)

A capstone seminar to integrate ideas, concepts, and methods from various areas of mathematics. Students will be required to choose a topic in mathematics or a related field for a research paper and presentation to the class. Students will be expected to communicate mathematical ideas by presenting solutions to problems, leading discussions and actively participating in class. (Three lectures hours.) (E)

Prerequisite: Senior status and completion of core and concentration requirements.

MATH 4892 The History of Modern Mathematics (3)

Selections from the major developments of modern mathematics in calculus, geometry, algebra, number theory, foundations, topology and probability through the first half of the 20th century. Primary materials written by great mathematicians on significant topics are analyzed.

Prerequisite: Senior status and completion of mathematics core.

MATH 4999 Work-Study Cooperative Education in Mathematics/Statistics (3)

The cooperative education program allows a student to earn academic credit while gaining valuable job experience by working in industry in an area related to his or her major. All co-op jobs must be approved by a faculty committee after consultation between a faculty coordinator and a job supervisor. Students must complete approximately 120 hours on the job during a regular semester or summer session and fulfill all requirements of the job supervisor and faculty coordinator.

Prerequisite: Completion of minimum of 15 semester hours in mathematics/computer science including CPS 1031, MATH 3452, MATH 2110, MATH 4545. Minimum grade point average of 3.0 in major and 2.75 overall. Approval of faculty committee.

Health Professions

Kean University offers an array of professional programs in nursing and health care careers. Students with an interest in any of these programs should consult the appropriate Chair or Coordinator.

PROFESSIONAL NURSING

The Baccalaureate of Science in Nursing (BSN) degree is offered to applicants who have completed lower division nursing education and hold a valid license to practice as a registered nurse (RN). The 125 credit, upper division program is accredited by the National League for Nursing Accrediting Commission (NLNAC).

POST BACCALAUREATE SCHOOL NURSE PROGRAM (NON-DEGREE)

The Post Baccalaureate School Nurse Program at Kean University is approved by the NJ State Department of Education and prepares students for certification as "School Nurse/Instructional."

Registered Nurses with a baccalaureate degree in any major and minimum GPA of 2.75 may apply. To apply go to www.kean.edu, please select "Apply online," then choose the application for "Post Baccalaureate Teacher Certification." Print a copy of the application, then carefully read and follow the directions for completion and submission.

PREPROFESSIONAL MEDICAL PROGRAMS

Premedical and Predental

Chairperson of PreMed-PreDental Committee:
Kerrylynn Konecny, C-137, (908) 737-3741

Although admissions requirements are not uniform among schools of medicine and dentistry, the following two programs include the courses required for entrance by most medical and dental schools: Department of Biological Sciences - B.S. or B.A. in Biology; Department of Chemistry - B.A. in Chemistry (Preprofessional). Other major programs may be selected if electives are chosen to fulfill the requirements of the medical or dental school(s) to which the student plans to apply.

Entering or transfer students interested in medical or dental school should consult a member of the Pre-Medical Advisory Committee for advisement. Names of committee members may be secured from the department offices of either Biological Sciences or Chemistry-Physics, or by viewing the Pre-Health Professions Web Page at <http://www.kean.edu/~biology/PREHEALTH>.

Other Preprofessional Medical Programs

Students with an interest in veterinary medicine, optometry, pharmacy, or other preprofessional medical programs should consult a member of the Pre-Medical Advisory Committee.

MEDICAL TECHNOLOGY

Baccalaureate programs are offered in medical technology general (with options in cytotechnology and histotechnology).

This program can accommodate entering freshmen and transfer students from two or four-year institutions. The first three (preprofessional) years include general education requirements and basic courses in the sciences, mathematics and social sciences. The final professional year include a sequence of courses and related clinical experiences in the professional area and advanced coursework in supporting disciplines. The curriculum has been designed to enable the graduate to meet the requirements for eligibility for national or state certification.

After completing the preprofessional requirements, students must apply for admission to the professional phase of the program. A minimum cumulative GPA of 2.85 is required for application to the professional clinical phase. The number of students admitted to each program is limited by the availability of clinical placements, and the admissions process is selective. Students are advised to plan their coursework during the preprofessional two years in such a way that alternate majors are possible should they choose not to continue or should they not be admitted to the program of their choice.

JOINT PROGRAMS

HEALTH INFORMATION MANAGEMENT

This is a joint degree program with the Rutgers University School of Health Related Professions (formerly UMDNJ Newark) for entering freshmen and transfer students from two or four-year institutions (who require a minimum of 32 credits to be completed at Kean). The first two (preprofessional) years are completed at Kean and include general education requirements and basic courses in the sciences, mathematics and social sciences. The final two (professional) years, completed at Rutgers University (formerly UMDNJ) include a sequence of courses and related clinical experiences in the professional area and advanced coursework in supporting disciplines. The curriculum of the program has been designed to enable the graduate to meet the requirements for eligibility for national certification and is accredited by the Commission on Accreditation of Health Informatics and Information Management Education (CAHIM). Students who already have a Bachelor's degree should contact Rutgers University (formerly UMDNJ) directly.

CLINICAL LABORATORY SCIENCE

Cytotechnologists and Medical Laboratory Scientists are clinical laboratory professionals and members of the health care team who participates in diagnosis of disease through the use of sophisticated instruments and techniques. Cytotechnologists and Medical Laboratory Scientists are needed to fill positions in hospitals, clinics and research laboratories. Qualified cytotechnologists and medical laboratory scientists play an important role in

the region's workforce. The University recognizes that duplication of certain health education programs is costly and unnecessary. Thus, a joint degree with Rutgers University School of Health Related Professions (formerly University of Medicine and Dentistry of New Jersey, UMDNJ), is cost effective for both universities and mutually beneficial to Kean University, its students, and Rutgers.

DUAL DEGREE PROGRAM

PHYSICIAN ASSISTANT

The Dual Degree Program is a collaborative effort between Kean University and Rutgers University (formerly UMDNJ Piscataway). The program combines a Bachelor's degree in Biology and a Master of Science degree in Physician Assistant. The program consists of undergraduate studies at Kean for the BA degree in Biology and graduate studies at the Robert Wood Johnson Medical School in Piscataway leading to a Master's in Physician Assistant degree. The Dual Degree program is available to students who do not already have a Bachelor's degree.

Health Information Management

(JOINT PROGRAM WITH RUTGERS UNIVERSITY, FORMERLY UMDNJ)

Program Liaison, Dr. Roxie James
C-112, (908) 737-3662

Program Director, Prof. Barbara Manger, Rutgers University (formerly UMDNJ)
(973) 972-4356

The Health Information Manager is a member of the health care team and is the professional responsible for management of health information systems consistent with medical, administrative, ethical and legal requirements. Health Information Management professionals are currently in high demand and this trend is expected to continue. The Bureau of Labor Statistics cites health information as one of the fastest growing occupations in the US.

The need for accurate and up-to-date health data is not confined to health care facilities. Registered Health Information Administrators (RHIA's) are also being employed by Health Maintenance Organizations, insurance companies, law firms, physician offices, government agencies, consulting firms, software companies and in the pharmaceutical industry. Future health information opportunities involve planning for and implementing computerized patient record systems. As we transition to the electronic health record, professionals with technical expertise, problem solving skills, knowledge of clinical medicine and superior communication skills are needed to develop and implement new systems as well as new policies and procedures in health care documentation and to protect patient confidentiality and data security.

The Commission on Accreditation of Health Informatics and Information Management Education (CAHIIM) currently accredits the Health Information Management (HIM) Program. Upon satisfactory completion of course requirements, the graduate is eligible to apply to write the national registry examination. A passing grade on the examination establishes the graduate as a Registered Health Information Administrator (RHIA).

The HIM program is a joint program with Rutgers Newark which admits both undergraduate and second degree students. The undergraduate completes all the pre-professional coursework at Kean University including program prerequisites. Second degree candidates should contact Rutgers University (formerly UMDNJ) for further information.

For entering freshmen, the program involves two years of pre-professional coursework at Kean and two professional years at Rutgers University (formerly UMDNJ). The professional component includes didactic, laboratory and clinical experiences. Transfer students are accepted to the university as pre-professional Health Information Management majors.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

ADMISSION REQUIREMENTS AND PROCEDURES:

In addition to the general college admission requirements, the Health Information Management program requires:

- Usually, completion of all pre-professional requirements with a "C" or above.
- Junior standing (completion of 56 semester hours) as of the Fall semester of intended enrollment at Rutgers University (formerly UMDNJ).
- An overall grade point average of 2.75 on a 4.0 scale. This requirement is subject to change. Once in the program, students must maintain an overall GPA of 2.75 in all courses and a GPA of 2.5 in HIM courses.
- Official transcripts of all previous college courses. Students who have attended a foreign college or university are required to submit an official English Translation of the academic credits.

The Health Information Management application form and official transcripts for student admission to the program must be submitted by May 1st immediately preceding the intended Fall semester enrollment.

B.S. DEGREE

GENERAL EDUCATION 32

FOUNDATIONS REQUIREMENTS 13

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030	College Composition	3
COMM	1402	Speech Communication as Critical Citizenship	3
MATH	1000	Algebra for College Students	3
GE	2024	Research & Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS:

<i>Humanities</i>		6
*ENG	2403 World Literature	3
Select one course from below		
	Fine Arts or Art History	3
	Philosophy or Religion	3
	Foreign Languages	3
	Music or Theatre	3
	Interdisciplinary	3
	<i>Social Sciences</i>	6
*HIST	1062 Worlds of History	3
Select one course below		
	Psychology	3
	Economics or Geography	3
	Political Science	3
	Sociology or Anthropology	3
	Interdisciplinary	3
	<i>Science & Mathematics</i>	7
BIO	1000 Principles of Biology	4
MATH	1016 Statistics	3

ADDITIONAL REQUIRED COURSES 14-16

ID	1400	Comp. in Mod Soc & CPS 1032 Microcomp. Applic.	6
OR CPS 1231 Fundamentals of Computer Science			
BIO	2402	Human Anatomy & Physiology	4
MGS	2030	Principles of Management	3
ACCT	2200	Principles of Accounting I	3

FREE ELECTIVES 15-17

COURSES BELOW ARE TAKEN AT RUTGERS UNIVERSITY (FORMERLY UMDNJ)

ACADEMIC MAJOR 61

FOUNDATION CORE 52

REQUIRED

BINF	3000	Introduction to Healthcare	1
BINF	3010	Medical Terminology	3
BINF	3110	Legal Aspects	3
BINF	3126	Development & Retention I	3
BINF	3127	Development & Retention II	2
BINF	3301	Classification and Reimbursement Systems	3
BINF	3311	Introduction to Coding	3
BINF	3411	Disease Pathology I	3
BINF	3412	Disease Pathology II	3
BINF	3619	Directed Practice	1
IBINF	4210	Health Statistics	3
BINF	4221	Guided Research & Statistics I	2
BINF	4222	Guided Research & Statistics II	2
BINF	4305	H.I. Services Admin	3
BINF	4310	Performance Improvement	3
BINF	4311	Electronic Health Record	3
BINF	4500	HIM Competency Rev. and Seminar	3
BINF	5000	Essentials of Health Computer Science	3
IDST	3510	Principles of Scientific Inquiry	3
IDST	4116	HC Finance & Budgeting	3
IDST	4300	Human Resource Mgmt.	3

ELECTIVE OPTIONS 6

(Students complete 6 credits in one elective track; must consult advisor before choosing)

Medical Coding Track

BINF	4312	Coding with ICD	3
BINF	4313	Coding with CPT	3

Compliance Track

BINF	4536	Healthcare Compliance I	3
BINF	4537	Healthcare Compliance II	3

Health Informatics Track*

BINF	5000	Essentials of Health Comp.Sci.	3
BINF	5005	Healthcare Info. Systems	3
BINF	5100	Intro to Biomed. Informatics	3

Clinical Trials Science Track*

BPHE	5310 Clinical Trials Overview	3
BPHE	5521 Regulatory Requirements In Clinical Investigations	3

Health Info. Leadership Track

BINF	5131 Health Care Finance	3
IDST	5110 Health Services Issues and Trends	3
IDST	5600 Mgmt and Leadership in Health Care	3

**Courses in these tracks also count toward
Master's degree of same title.*

MAJOR CAPSTONE 4

BINF	4619 Management Affiliation	
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TOTAL 124

¹ University Requirement for Graduation for all
undergraduate students that must be satisfied in
one of two ways: Complete GE 1000 (all fresh-
men and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits
or more).

Medical Technology

Program Liaison, Dr. Roxie A. James

C-112 (908) 737-3662

Students who successfully complete this program are eligible for national certification in medical technology. The program is affiliated with the Jersey Shore University Hospital, Morristown Memorial Hospital, and The Valley Hospital. The medical technologist is a professional member of the health care team who participates in diagnosis of disease through the use of sophisticated instruments and techniques and trains other laboratory workers. Medical technologists are needed to fill positions in hospitals, clinics and research laboratories. A minimum cumulative GPA of 2.85 and a minimum GPA of 3.0 in science courses are required for application to the clinical professional phase.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

B.S. DEGREE MEDICAL TECHNOLOGY

OPTION: GENERAL

GENERAL EDUCATION 32

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1016 Statistics 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2024 Research and Technology 3

DISCIPLINARY AND INTERDISCIPLINARY REQUIREMENTS 19

Humanities 6

*ENG 2403 World Literature 3

Select one course from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social and Behavioral Sciences 6

*HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

Science & Mathematics 7

*MATH 1054 Precalculus 3

CHEM 1083 Chemistry I 4

ADDITIONAL REQUIRED COURSES 21

SOC 1000 Intro to Sociology 3

CHEM 1084 Chemistry II 4

CHEM 2581 Organic Chemistry Lecture I 3

CHEM 2582 Organic Chemistry Lecture II 3

CHEM 2583 Organic Chemistry Lab I 2

CHEM 2584 Organic Chemistry Lab II 2

CHEM 2283 Quantitative Analysis 4

CAPSTONE** 0

**3 credits of ID 4877-4878 will fulfill the capstone requirement

*Required Distribution Course

MAJOR CORE REQUIREMENTS 32

BIO 1300 General Biology I 4

BIO 1400 General Biology II 4

BIO 3305 Principles of Microbiology 4

BIO 3403-3404 Anatomy and Physiology I and II 8

OR

BIO 3433-3434 Anatomy and Physiology I and II (Honors)

BIO 3709 Genetics 4

BIO 3705 Principles of Genetics Lab 2

BIO 4105 Essentials of Biochemistry WE 4

BIO 4315 Immunology 4

ADDITIONAL MAJOR REQUIREMENT 30

ID 4877-4878 Medical Technology Clinical Preceptorship I and II 30

FREE ELECTIVES 8

(50% of electives must be taken at the 3000-4000 level.)

TOTAL 124

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

B.S. DEGREE MEDICAL TECHNOLOGY

OPTION: CYTOTECHNOLOGY

The option in cytotechnology leads to both a Bachelor of Science degree and eligibility for national certification in cytotechnology.

Cytotechnologists can scan slides of cells from body surfaces and body fluids to detect abnormalities; e.g. cancer, and to report their findings to physicians.

Students attend a cytotechnology educational program for clinical training. The hospital selects the students for clinical preceptorship.

GENERAL EDUCATION 32

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1016 Statistics 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2024 Research and Technology 3

DISCIPLINARY AND INTERDISCIPLINARY REQUIREMENTS 19

Humanities 6

*ENG 2403 World Literature 3

Select one course from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social and Behavioral Sciences 6

*HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

Science & Mathematics 7

*MATH 1054 Precalculus 3

CHEM 1083 Chemistry I 4

ADDITIONAL REQUIRED COURSES 21

SOC 1000 Intro to Sociology 3

CHEM 1084 Chemistry II 4

CHEM 2581 Organic Chemistry Lecture I 3

CHEM 2582 Organic Chemistry Lecture II 3

CHEM 2583 Organic Chemistry Lab I 2

CHEM 2584 Organic Chemistry Lab II 2

CHEM 2283 Quantitative Analysis 4

CAPSTONE** 0

**3 credits of ID 4879-4880 will fulfill the capstone requirement

*Required Distribution Course

MAJOR CORE REQUIREMENTS 37

BIO 1300 General Biology I 4

BIO 1400 General Biology II 4

BIO 3305 Principles of Microbiology 4

BIO 3403-3404 Anatomy and Physiology I and II 8

OR

BIO 3433-3434 Anatomy and Physiology I and II (Honors)

BIO 3709 Genetics 4

BBIO 4105 Essentials of Biochemistry WE 4

BIO 4315 Immunology 4

ADDITIONAL MAJOR REQUIREMENT 34

BIO 3260 Intro to Histology 4

ID 4879-4880 Cytotechnology Clinical Preceptorship I and II 30

FREE ELECTIVES 4

(50% of electives must be taken at the 3000-4000 level.)

TOTAL 124

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

B.S. DEGREE MEDICAL TECHNOLOGY

OPTION: HISTOTECHNOLOGY

The option in histotechnology leads to both a Bachelor of Science degree and eligibility for national certification in histotechnology. Histotechnologists are trained to process body tissue sections and prepare them for examination by a pathologist. Students attend a histotechnology educational program for clinical education. The hospital selects the students for clinical preceptorship.

OPTION: GENERAL

GENERAL EDUCATION 32

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1016 Statistics 3

COMM 1402 Speech Communication as
Critical Citizenship 3

GE 2024 Research and Technology 3

**DISCIPLINARY AND
INTERDISCIPLINARY
REQUIREMENTS 19**

Humanities 6

*ENG 2403 World Literature 3

Select one course from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social and Behavioral Sciences 6

*HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

Science & Mathematics 7

*MATH 1054 Precalculus 3

CHEM 1083 Chemistry I 4

ADDITIONAL REQUIRED COURSES 21

SOC 1000 Intro to Sociology 3

CHEM 1084 Chemistry II 4

CHEM 2581 Organic Chemistry
Lecture I 3

CHEM 2582 Organic Chemistry
Lecture II 3

CHEM 2583 Organic Chemistry Lab I 2

CHEM 2584 Organic Chemistry Lab II 2

CHEM 2283 Quantitative Analysis 4

CAPSTONE 0**

****3 credits of ID 4881-4882 will
fulfill the capstone requirement**

***Required Distribution Course**

MAJOR REQUIREMENTS

MAJOR CORE REQUIREMENTS

BIO 1300 General Biology I 4

BIO 1400 General Biology II 4

BIO 3305 Principles of Microbiology 4

BIO 3403-3404 Anatomy and
Physiology I and II 8

OR

BIO 3433-3434 Anatomy and
Physiology I and II (Honors) 4

BIO 3709 Genetics 4

BIO 4105 Essentials of
Biochemistry WE 4

BIO 4315 Immunology 4

**ADDITIONAL MAJOR
REQUIREMENT 34**

BIO 3260 Intro to Histology 4

ID 4881-4882 Histotechnology
Clinical Preceptorship
I and II 30

FREE ELECTIVES 4

(50% of electives must be taken at the
3000-4000 level.)

TOTAL 124

¹ University Requirement for Graduation for all
undergraduate students that must be satisfied in
one of two ways: Complete GE 1000 (all fresh-
men and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits
or more).

MEDICAL TECHNOLOGY CLINICAL PRECEPTORSHIPS

**ID 4877-4878 Medical Laboratory Science
Clinical Preceptorship I, II (15,15)**

Course offered at an affiliated Clinical Laboratory
Science program. Clinical preceptorship in Clinical
Laboratory Science is for a period of two semes-
ters. Instruction and clinical practice in clinical bio-
chemistry, medical microbiology, clinical
microscopy, hematology, immunohematology,
immunoserology, management, records, instru-
mentation, radioisotopes, and ethics. Declared
major status in Clinical Laboratory Science,
acceptance by an affiliated program in Clinical
Laboratory Science and consultation with the
Coordinator of Clinical Laboratory Science.

*Prerequisites: Declared major status in Clinical
Laboratory Science*

**ID 4879-4880 Cytotechnology Clinical
Preceptorship I and II (15, 15)**

Course offered at an approved cytotechnology
program. Clinical preceptorship in cytotechnology
for a period of one year. Instruction and clinical
practice in exfoliative cytology. Instruction and
clinical practice in the microscopic study of normal
and abnormal cells from body secretions and flu-
ids, preparation and staining of cell smears, cytol-
ogy of body organs, interpretation of stained cell
smears for detection of malignant cells.

*Prerequisites: Declared major in medical technology;
cytotechnology option; acceptance by an approved
cytotechnology program; and consultation with the
MT coordinator.*

**ID 4881-4882 Histotechnology Clinical
Preceptorship I and II (15, 15)**
Course offered at an approved histotechnology
program. Clinical preceptorship in histotechnology
for a period of one year. Instruction and clinical
practice in the processing of body tissue sections by
fixation, dehydration, embedding, sectioning,
mounting and staining. Other special topics studied.
*Prerequisites: Declared major in medical technology;
histotechnology option; acceptance by an approved
histotechnology program; and consultation with the
MT coordinator.*

Clinical Laboratory Science: Medical Laboratory Science

Program Liaison, Dr. Roxie A. James
C-112 (908) 737-3662

Students who successfully complete this program are eligible for national certification in clinical laboratory science. This is a joint program with Rutgers Newark (formerly UMDNJ). The medical laboratory scientist (MLS) is a professional member of the health care team who participates in diagnosis of disease through the use of sophisticated instruments and techniques and trains other laboratory workers. MLS are needed to fill positions in hospitals, clinics and research laboratories. A minimum cumulative GPA of 2.85 is required for application to the clinical professional phase.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

B.S. DEGREE CLINICAL LABORATORY SCIENCE: MEDICAL LABORATORY SCIENCE

GENERAL EDUCATION 35

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1000 Algebra for College Students³

COMM 1402 Speech Communication as
Critical Citizenship 3

GE 2024 Research and Technology 3

DISCIPLINARY AND INTERDISCIPLINARY REQUIREMENTS 19

Humanities 6

*ENG 2403 World Literature 3

Select one course from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social and Behavioral Sciences 6

*HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

Science & Mathematics 7

*MATH 1054 Precalculus 3

CHEM 1083 Chemistry I 4

MAJOR/GE CAPSTONE 3

BIO 4970 Seminar in Integrative
Biology 3

*Required Distribution Course

MAJOR CORE REQUIREMENTS 41

BIO 1300 General Biology I 4

BIO 1400 General Biology II 4

BIO 3305 Principles of Microbiology 4

BIO 3403-3404 Anatomy and
Physiology I and II 8

OR

BIO 3433-3434 Anatomy and
Physiology I and II (Honors)

BIO 3709 Genetics 4

BIO 4105 Essentials of
Biochemistry WE 4

BIO 4315 Immunology 4

BIO Major Elective @ 3000/4000 4

CHEM 2581 Organic Chemistry
Lecture I 3

CHEM 2583 Organic Chemistry Lab I 2

ADDITIONAL REQUIRED COURSES 15

SOC 1000 Intro to Sociology 3

CHEM 1084 Chemistry II 4

CHEM 2582 Organic Chemistry
Lecture II 3

CHEM 2584 Organic Chemistry Lab II 2

MATH 1016 Statistics 3

RUTGERS MEDICAL LAB SCIENCES 45

MLSC 2119 Basic Lab Oper. 2

MLSC 2129 Hematology I 3

MLSC 2169 Body Fluids 1

MLSC 2249 Clinical Chemistry I 4

MLSC 2159 Clinical Immunology 2

MLSC 4279 Clinical Microbiology 6

MLSC 2239 Immuno-hematology I 3

MLSC 4349 Clinical Chemistry II 3

MLSC 4329 Hematology II 3

CLSC 4310 Lab Stat., Mgmt & Ed. 2

CLSC 4319 Intro to Mol Diagnostics 2

MLSC 4339 Immuno-hematology II 2

MLSC 4429 Clinical Practice
Hematology & Urinalysis 2

MLSC 4449 Clinical Pract in Chem 2

MLSC 4489 Independent Study 3

MLSC 4390 Topics in MLS 1

MLSC 4439 Clinical Practice
Immuno-hematology &
Immunology 2

MLSC 4479 Clinical Practice in
Microbiology 2

MLSC 4479 Clinical Practice in
Microbiology 2

TOTAL 136

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

CLINICAL LABORATORY SCIENCE: CYTOTECHNOLOGY

Program Liaison, Dr. Roxie A. James
C-112 (908) 737-3662

Students who successfully complete this program are eligible for national certification in clinical laboratory science with specialization in Cytotechnology. This is a joint program

with Rutgers Scotch Plains campus (formerly UMDNJ). Students receive theoretical and practical experience in all major areas of Cytotechnology, namely the female genital tract, respiratory and urinary tract, body cavity fluids, fine needle aspiration and cyto-processing of specimens. Additional experiences are provided in laboratory management, cytogenetics, independent study projects and molecular diagnostics. A minimum cumulative GPA of 2.85 is required for application to the clinical professional phase.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

B.S. DEGREE CLINICAL LABORATORY SCIENCE: CYTOTECHNOLOGY

GENERAL EDUCATION 35

FOUNDATIONS REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 College Composition 3

MATH 1000 Algebra for College Students³

COMM 1402 Speech Communication as
Critical Citizenship 3

GE 2024 Research and Technology 3

DISCIPLINARY AND INTERDISCIPLINARY REQUIREMENTS 19

Humanities 6

*ENG 2403 World Literature 3

Select one course from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social and Behavioral Sciences 6

*HIST 1062 Worlds of History 3

PSY 1000 General Psychology 3

Science & Mathematics 7

*MATH 1054 Precalculus 3

CHEM 1083 Chemistry I 4

MAJOR/GE CAPSTONE 3

BIO 4970 Seminar in Integrative
Biology 3

*Required Distribution Course

MAJOR CORE REQUIREMENTS 41

BIO 1300 General Biology I 4

BIO 1400 General Biology II 4

BIO 3305 Principles of Microbiology 4

BIO 3403-3404 Anatomy and
Physiology I and II 8

OR

BIO 3433-3434 Anatomy and
Physiology I and II (Honors)

BIO	3709	Genetics	4
BIO	4105	Essentials of Biochemistry WE	4
BIO	4315	Immunology	4
BIO	Major Elective @ 3000/4000		4
CHEM	2581	Organic Chemistry Lecture I	3
CHEM	2583	Organic Chemistry Lab I	2

ADDITIONAL REQUIRED COURSES 19

SOC	1000	Intro to Sociology	3
CHEM	1084	Chemistry II	4
CHEM	2582	Organic Chemistry Lecture II	3
CHEM	2584	Organic Chemistry Lab II	2
MATH	1016	Statistics	3
BIO	3260	Introduction to Histology#	4

#can be taken either at Kean or Rutgers

RUTGERS CYTOTECHNOLOGY 45

CYTO	4110	Gynecologic Cytology	4
CYTO	4120	Gynecologic Cytology lab	4
CYTO	4130	Fine Needle Asper. Cyto	1
CYTO	4169	Clinical Pracitcum I	2
CYTO	4289	Cytoprep Techniques I	1
CYTO	4350	Cytogenetics	1
CYTO	4389	Cytoprep Techniques II	2
CYTO	4319	Intro Molecular Diagnos	2
CYTO	4310	Lab Stat., Mgmt & Ed.	2
CYTO	4209	Respiratory Cytology	3
CYTO	4220	Fine Needle Asper. Cyto of the Thyroid Gland	2
CYTO	4239	Urinary Cytology	2
CYTO	4369	Clinical Pracitcum II	2
CYTO	4370	Independent Study	2
CYTO	4390	Gastrointestinal Cytol	2
CYTO	4249	Body Fluids Cytology	3
CYTO	4469	Clinical Practice III	7

TOTAL 138

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

School of Nursing

Executive Director, Dr. Joan Valas
T-116 (908) 737-3390

The Bachelor of Science in Nursing is a 125-credit upper division program open to Registered Nurses and pre-Nursing students with faculty permission. The program is accredited by the National League for Nursing Accrediting Commission (NLNAC*). Admission to the major is based on GPA and evidence of a valid NJ Registered Nurse license. Students may be admitted as "intended" majors based on GPA and eligibility for the National Council Licensure Examination (NCLEX).

The B.S.N. prepares Registered Nurses to enter professional practice and to assume new and changing roles in a variety of clinical settings. The upper division curriculum includes advanced course work in theoretical and conceptual frameworks from professional nursing and related disciplines, concepts related to evidence based research and practice, quality management and leadership. The objective is to prepare a professional who uses evidence as the basis for nursing practice and is capable of providing leadership in implementing and maintaining high quality standards of practice. The upper division course work may be completed in two years of full-time study or up to ten years on a part-time basis. The program schedule is designed to accommodate the special needs of the practicing Registered Nurse. The curriculum includes 4 clinical nursing courses and attendance at all clinical sessions is required.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

Degree Requirements: The following are the degree requirements for the Bachelor of Science in Nursing (BSN). Prerequisites for admission to the Nursing major are indicated with a "+" preceding the course number. Transcripts are evaluated and credit toward the degree is granted for college level courses that are in compliance with Kean University policy for transfer credit. In addition, 30 lower division Nursing credits are transferred upon admission to the University. There are 4 clinical nursing courses in the upper division curriculum. Attendance at all clinical sessions is required. Those courses with a clinical component are identified by italics.

*NLNAC: 3343 Peachtree Road N.E., Suite 500, Atlanta, GA 30326 (404) 975-5000.

B.S.N. DEGREE

GENERAL EDUCATION 31-33

FOUNDATIONS REQUIREMENTS 13

GE 1000	Transition to Kean ¹	1
OR		
GE 3000	Transfer Transitions ¹	1
*ENG 1030	College Composition	3
CPS 1032	Microcomputer Applications	3
COMM 1402	Speech Comm. as Critical Citizenship	3

GE 2024 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 6

*ENG 2403 World Literature 3

Select only ONE course from the following choices:

Fine Arts or Art History 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 6

*HIST 1062 Worlds of History 3

+PSY 1000 General Psychology 3

Science & Mathematics 6-8

+BIOX 2001 Anatomy & Physiology I 3-4

+BIOX 2002 Anatomy & Physiology II 3-4

ADDITIONAL REQUIRED COURSES** 15-17

PHIL 1100 Intro to Philosophy 3

+SOC 1000 Intro to Sociology 3

MATH 1016 Statistics 3

+BIOX 2003 Microbiology 3-4

CHEM 1030 Essentials of Chemistry 3-4

ACADEMIC MAJOR 73

Support Courses 12

SOC 2100 Sociology of the Family 3

PSY 3110 Life-Span Developmental Psychology 3

PHIL 3314 Moral Problems in Health Care 3

HED 3635 Intro to Public Health 3

Lower Division Nursing

NURS 1999 (Credit by examination 30 credits)

Upper Division Nursing Courses (29 credits)

NURS 3000 Conceptual Found/Inq. in Nursing 3

NURS 3010 Health Assessment 2

NURS 3020 Foundations of Transcultural Care 3

NURS 3030 Issues in Professional Nursing 3

NURS 3200 Professional Nursing Health Promotion/Community 5

NURS 4200 Research in Nursing 3

NURS 4300 Professional Nursing: Living with Illness 5

NURS 4400 Professional Nursing: Leadership 5

MAJOR/GE CAPSTONE COURSE

(1 credit from NURS 4400 applies to capstone)

NURS 4900 Independent Practicum in Nursing 2

FREE ELECTIVES 2-6

TOTAL 125

*GE Required Course

+ Nursing Prerequisite Course

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

MAJOR COURSES

Please Note: "Intended majors" without a RN license will not be permitted to register for clinical courses. ALL Nursing courses require individual advisement after which a decision for a Granted Petition for registration is made.

NURS 3000 Conceptual Foundations and Inquiry in Nursing (3 credits)

A comprehensive exploration of historical and contemporary nursing and related knowledge, including systems, the metaparadigm, philosophies, conceptual models, middle and grand theories as fundamentals of research-based nursing practice. Recognition of the scholarly role of the nurse and the value of theory and theory development as an essential basis for professional nursing practice with diverse populations. Focus is on health promotion/risk reduction as the essence of all activities is the care of individuals, families, groups and populations in all health and settings. Offered at various sites each semester – see Kean Wise

Granted Petition required for registration.

NURS 3010 Health Assessment (2 credits, lab course)

Introduction to holistic health assessment and physical examination. Comprehensive health assessment to include physiological, cultural, development, nutritional, genetic and mental status assessment. Focus is on data gathering techniques, therapeutic communication skills, and use of a body systems approach to physical examination. Documentation of findings and use of the nursing process will facilitate clinical decision making in designing health promotional, risk reduction, and disease prevention activities for diverse client populations across the life span. Offered at various sites each semester – see Kean Wise

Granted Petition required for registration.

NURS 3020 Foundations of Transcultural Health Care (3 credits)

An introduction to concepts and theories relevant to healthcare for diverse populations. Diversity is examined relative to social organization, role and expectations, communication patterns and values/beliefs underlying health-illness behaviors between western and non-western cultures. Emphasis on development of knowledge and skills in culturally congruent communication and cultural assessment. Comparative approach to global healthcare by understanding similarities and differences among commonly encountered diverse population groups. Offered at various sites each semester – see Kean Wise

Granted Petition required for registration.

**NURS 3200 Professional Nursing Practice:
Health Promotion in the
Community
(5 credits with clinical)**

Continued study of nursing models and application of relevant theories to guide nursing practice as it pertains to health promotion and risk reduction. Using the family as the essential unit of care within the community, critical thinking and clinical decision-making processes will facilitate the design, management and provision of care to modify risk factors, and promote. Specific clinical activities are related to prevention and reduction of health disparities across the life span through the conduct of community assessment and the development and implementation of culturally appropriate nursing strategies reflecting professional values and behaviors. Offered at various sites each semester – see Kean Wise

Granted Petition required for registration.

Must be a a RN and a Declared Nursing Major.

**NURS 4200 Research in Nursing
(3 credits)**

Introduction to systematic investigation of nursing problems. Includes historical overview of research in nursing and current research priorities. Classroom practice in critical appraisal of research reports, and systematic review of research findings for evidence upon which to base nursing practice. Offered at various sites each semester – see Kean Wise

Granted Petition required for registration.

**NURS 4300 Professional Nursing
Practice for Clients
Living with Illness
(5 credits with clinical)**

Intensive study of the care of the sick in and across all environments. The comprehensive impacts of illness, including the bio-psychosocial and cultural aspects on the individual, family, group and community will be explored. Designing, coordinating, and managing care of the sick with emphasis on client groups as the modality of care. Includes therapeutic communication, health counseling and education of special population with the goal of maximizing optimal health states throughout the trajectory of illness across the life span. Offered at various sites each semester – see Kean Wise

Granted Petition required for registration.

Must be a a RN and a Declared Nursing Major.

**NURS 4400 Professional Nursing Leadership
in Health Care Settings
(5 credits with clinical)**

Application of systems theory as the basis for designing, managing and coordinating client care in an evolving health care environment. Focus on expanding knowledge and skills of leadership and management theories for direct and indirect nursing care. Special emphasis on delegation, development of nursing team personnel, and evaluation of outcomes. Exploration of legal/ethical issues, licensure, health policy, politics and role of professional nurse as a leader in health care will be addressed. Offered at various sites each semester – see Kean Wise

Granted Petition required for registration.

Must be a a RN and a Declared Nursing Major.

**NURS 4900 Independent Practicum
in Nursing
(2 credits clinical)**

Concluding course in which students integrate the knowledge they have gained to select, develop and implement project with clinical nursing foci. Emphasis on facilitating students' transition to role of baccalaureate prepared nurse practitioners and preparing them for future roles in professional practice. Offered at various sites each semester – see Kean Wise

Granted Petition required for registration.

Must be a a RN and a Declared Nursing Major.

**POST BACCALAUREATE
SCHOOL NURSE PROGRAM**

The Post Baccalaureate School Nurse Program is approved by the NJ State Department of Education and prepares students for School Nurse certification. Registered Nurses with a baccalaureate degree in any major and minimum GPA of 2.75 may apply. The following are requirements for program completion.

CURRICULUM REQUIREMENTS

Pre admission

- Current NJ registered nurse (RN) license
- Professional liability insurance.
- Evidence of having passed a basic physical assessment course with practicum or applicant must receive a grade of "C" or better in NURS 3010.

FOUNDATION COURSES+

PSY	3110	Life-Span Dev. Psych	3
EDUC	3000	Curriculum Evaluation and the Learner	3
HED	3533	Methods and Materials in Health Education in Elem & Secondary Schools	3
HED	3300	Community Mental Health	3
NURS	3020	Foundations in Transcultural Care	3
HED	4650	Community Health Counseling	3
ID	2042	Human Exceptionality	3

One of the following:

NURS	3200	Professional Nursing Health Promotion/Community	5
HED	3635	Introduction to Public Health	3

+All courses listed above must be completed before registering for school nursing courses.

SCHOOL NURSING CONCENTRATION*

NURS	5501	School Nursing I	3
NURS	5502	School Nursing II	3
NURS	5510	School Nursing Internship	3
HED	5500	Health Education Internship	3

EXIT REQUIREMENTS

- Completion of program requirements
- Maintain minimum GPA of 2.75
- Grade of "B" or better in School Nursing concentration
- CPR and AED (defibrillation) certification prior to internship (Nurs 5510/HED 5500).

**The courses in the school nursing concentration are graduate level and must be taken at Kean University unless transfer credit is approved by Program Coordinator. An approved petition is required for registration.*

*** These courses require a grade of "C" or better*

Physician Assistant

Program Advisor, Dr. Patrick Field

C-133 (908) 737-3667

This Dual Degree Program is a collaborative effort between Kean University and Rutgers University (formerly UMDNJ Piscataway).

The program combines a Bachelor's degree in Biology and a Master of Science degree in Physician Assistant. The program consists of undergraduate studies at Kean for the BA in Biology degree and graduate studies at Rutgers University (formerly the Robert Wood Johnson Medical School, UMDNJ) leading to a Master in Physician Assistant degree. The Dual Degree program is available to students who do not already have a Bachelor's degree.

Students are admitted into the BA in Biology major/PA track (minimum cumulative GPA of 3.00 required). Students apply to the PA Program by June 1 of their sophomore (44-66 credits accumulated by spring semester) year at Kean, and if accepted, must maintain a 3.00 GPA (on a scale of 4.0, where 4.0 = "A") through the end of their third undergraduate year. Students apply for admission to Rutgers University (formerly UMDNJ) through the Central Application Service for Physician Assistants (CASPA). Personal interviews will be required of all applicants considered. The interview will serve to determine the applicant's emotional and intellectual maturity, ability to communicate, and potential to achieve career satisfaction within the Physician Assistant role. Admission to the Biology major/PA track does not guarantee admission into the PA Program at Rutgers University (formerly UMDNJ).

If accepted into the Physician Assistant Program, courses taken during the first year at Rutgers University (formerly UMDNJ) will transfer to Kean to complete the undergraduate degree in Biology at Kean University. At the end of the first year of the PA Program, Kean will confer the BA degree in Biological Sciences; at the end of the two additional years at Rutgers University (formerly UMDNJ) (or the sixth year) Rutgers University will confer the MS in Physician Assistant.

Students who already have a Bachelor's degree must contact at Rutgers University (formerly UMDNJ) at (732) 235-4444 and apply directly to the Physician Assistant Program using the online common application process (CASPA).

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/KU/CNAHS-Mission-and-SLOs>

KEAN UNDERGRADUATE REQUIREMENTS

The undergraduate degree in Biological Sciences at Kean includes the requirements for the Bachelor's degree as well as the prerequisite courses for application to the PA Program. A minimum GPA of 3.0 (where 4=A) is required for admission into the BA in Biology.

Prerequisite courses to the PA Program include:

- 12 credits in Humanities and/or Social Sciences (three credits must be PSY 1000 General Psychology);
- 6 credits in English (three credits must be Composition) as ENG 1030 College Composition and GE 2024 Research and Technology;
- 3-4 credits in Mathematics (MATH 1054 Precalculus);
- 8 credits General Chemistry (with lab) as CHEM 1083 and CHEM 1084;
- 8 credits Organic Chemistry lecture and lab, as consecutive semesters of CHEM 2581-2583, and CHEM 2582-2584;
- 8 credits in Biological Sciences (with lab) as BIO 3403 and BIO 3404.

Students will need to complete all general education and major requirements for the undergraduate B.A. Biology degree (PA track) as prescribed by the end of the Spring semester prior to the start of the PA program.

Students will need to complete a minimum of 32 credits at Kean, including one-half of the major requirements, to be eligible for the BA in Biological Sciences degree from Kean University.

APPLICATION TO THE PA PROGRAM

Admission to the PA Program is competitive and through the Centralized Application Service for Physician Assistants (CASPA). Applications to Rutgers University (formerly UMDNJ) are made during the spring semester of their sophomore year. All applications are due to CASPAS by June 1st and the notices of acceptance will be made by June 1st (one full year before the anticipated beginning date of the PA Program). Acceptance will be guaranteed at the end of the third year if the applicant maintains a 3.00 GPA, is successful in the interview process, and meets all the requirements for the undergraduate degree before the beginning of the fourth year (first professional year). Acceptance to the program is determined by Rutgers University (formerly UMDNJ).

In order to obtain admission, the following minimum requirements must be met:

1. Overall and science GPA of no less than 3.00 (on a scale where 4 equals A).
2. Prerequisites listed above must be completed with a minimum grade of C or better;
3. Three completed Recommendation Forms. It is preferable that one recommendation be completed by a college instructor; one by an employment supervisor; and one by an individual who is thoroughly familiar with the applicant's general characteristics and may be an instructor, counselor, community leader, etc.
4. Personal interviews will be required of those applicants being considered for admission. The interview will serve to determine the applicant's emotional and intellectual maturity, the ability to communicate, and the potential to achieve career satisfaction within the PA role.

THE GRADUATE PROGRAM AT RUTGERS UNIVERSITY (FORMERLY UMDNJ)

Applications for the PA program are obtained directly from Rutgers University (formerly UMDNJ). Acceptance into the Physician Assistant Program is determined by Rutgers University (formerly UMDNJ). The program is an intensive three-year curriculum that is divided into one and one-half years of didactic education and one and one-half years of clinical rotation. Classes are held on the Rutgers University (formerly UMDNJ) campus in Piscataway, NJ. Clinical rotations are offered in New Jersey, New York, and Connecticut.

The Rutgers University (formerly UMDNJ) Physician Assistant Program is located at Robert Wood Johnson Medical School. The program has been educating PAs since 1975 and is fully accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA). The program is highly ranked nationally, based on the very high passing rate/scores of their graduates on the national certifying exam.

The PA Program consists of 115 credits. Once accepted, students must maintain a minimum grade point average of 2.5 (on a scale where 4.0=A) at Rutgers University (formerly UMDNJ) in order to graduate from the Program.

Physician Assistant Program, Rutgers University (formerly UMDNJ), 675 Hoes Lane, Piscataway, NJ 08854

(732) - 235-4444.

College of Visual and Performing Arts

National Accreditations:

National Association of Schools of Music

National Association of Schools of Art and Design

National Association of Schools of Theatre

For more information about College of Visual and Performing Arts programs, mission, and student learning outcomes, please see: <http://www.kean.edu/academics/college-visual-performing-arts>

Office of the Dean:

CAS-405, (908) 737-0430

Acting Dean, Dr. Suzanne Bousquet

Assistant to the Dean, Alfred Brown

CAS-405, (908) 737-0433

ACADEMIC DEGREES, PROGRAMS

FINE ARTS

B.A. in Art History

B.A. in Fine Arts

B.A. in Fine Arts with Teacher Certification

B.F.A. in Studio Art

B.F.A. in Studio Art - Photography Option

MUSIC

B.A. in Music

B.A. in Music Education with Teacher Certification

B.M. in Music Performance and Pedagogy

THEATRE

B.A. in Theatre

B.A. in Theatre with Teacher Certification

B.F.A. in Theatre Performance

B.F.A. in Theatre Design and Technology

Minors

Art History

Fine Arts

Music

Theatre

Dance

FACULTY

Fine Arts Faculty: Amorino, Crupi, Harris, Kachur, Mayhall, Stonberg

Conservatory of Music Faculty: Connors, Halper, Marchena, Scelba, Schraer-Joiner, Terenzi

Theatre Faculty: Choate, Evans, Hart, Logue, Murray, Wiggins

COURSE SCHEDULING FREQUENCIES

At the end of the course description is a code in parenthesis that indicates the frequency the course is offered to assist students in planning their registration.

Key:

E = Every Semester

FA = Every Fall

SP = Every Spring

FE = Fall, Even Years

SE = Spring, Even Years

FO = Fall, Odd Years

SO = Spring Odd Years

E3 = Every Third Semester

WS = Every Winter Session

SSI = Every Summer Session I

SSII = Every Summer Session II

SSIE = Summer Session I, Even Years

SSIO = Summer Session I, Odd Years

SSII = Summer Session II, Even Years

SSII = Summer Session II, Odd Years

Fine Arts

VE 403 (908) 737-4400

Art History

The B.A. in Art History is a liberal arts major which focuses on understanding and interpreting the visual arts within historical contexts. Skills developed in this program of study include knowledge and appreciation of various Western and non-Western cultures and their arts. Also stressed are awareness of the creative process in the arts, written and oral communication, critical and creative thinking, and the relationship between the arts and other humanities. This major provides students with the foundation necessary for graduate study and for careers requiring a background in art history such as work in galleries, museums, and other arts institutions.

The study of a foreign language is required for all majors. Also, additional courses in the humanities and in museum training are strongly recommended, especially for students who intend to pursue graduate study.

B.A. ART HISTORY 124

(44200)

GENERAL EDUCATION 43-45

FOUNDATION REQUIREMENTS¹ 13

GE 1000 Transition to Kean² 1

OR

GE 3000 Transfer Transitions² 1

ENG 1030 College Composition³ 3

MATH 1000, 1010, 1016, or 1030 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2025 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

(Select two from different areas below)

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

(Must take I and II for credit)

Music or Theater 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

(Select two from different areas below)

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 10-11

*MATH 1010; 1016; 1030, 1054 (depending on choice made in Foundations Req.) or CPS 1031; 1032; 1231 3

(Select two from below; one must be a lab science)

Biology 3, 4

Chemistry or Physics 3, 4

Astro, Earth Sci, Geol or Meteor 3, 4

Interdisciplinary 3, 4

Health/Physical Education 2, 3

ID 1225 Issues Contemporary Health 3

OR

ID 1010 Leisure & Recreation in Multicultural Society 3

OR

Physical Education 1

Physical Education 1

ADDITIONAL COURSE REQUIREMENTS⁴ 6

2 Foreign Language (in one language)

FL: 3

FL: 3

ACADEMIC MAJOR AND CAPSTONE REQUIREMENTS³ 36

MAJOR REQUIREMENTS 18

AH 1700 Art from Prehistory to Middle Age 3

AH 1701 Art from Renaissance to Modern World 3

AH 3740 Modern Art 3

Select one of the following: 3

AH 3730 Art of Ancient Egypt

AH 3750 The Art of China

AH 3751 The Art of Japan

AH 3752 The Art of India

AH 3780 Art in Africa

AH 3795 Pre-Columbian Art of the Americas

2 Fine Arts studio courses (one 2000 level or higher) with departmental advisement

MAJOR ELECTIVES: 15

Any five additional Art History courses with advisement

MAJOR/GE CAPSTONE COURSE 3

AH 4700 Art History Research Seminar [WE] 3

FREE ELECTIVES: 37-39

(50% of free electives must be taken at the 3000-4000 level)

¹ See prerequisites and equivalencies

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

³ All major courses, including the Capstone, and ENG 1030 require a grade of C or better

⁴ Not required if Art History is your second major or minor.

* Required Distribution Course

MINOR IN ART HISTORY

MINOR REQUIREMENTS 18

REQUIRED COURSES 9

AH 1700 Art from Prehistory through the Middle Ages 3

AH 1701 Art from the Renaissance to the Modern World 3

Select one of the following: 3

AH 3730 Art of Ancient Egypt

AH 3750 The Art of China

AH 3751 The Art of Japan

AH 3752 The Art of India

AH 3780 Art in Africa

AH 3795 Pre-Columbian Art of the Americas

MINOR ELECTIVES: 9

Any three additional Art History courses with advisement (3000-4000 level)

ART HISTORY COURSES

ART HISTORY

AH 1700 Art from Prehistory Through the Middle Ages (3)

A study of important works of painting, sculpture, and architecture from prehistory to the Renaissance with emphasis on stylistic analysis and relationships of art to its cultural and historical setting. (E, SSI)

General Education Humanities

General Education Disciplinary/Interdisciplinary Option

Prerequisites: ENG 1030

AH 1701 Art from the Renaissance to the Modern World (3)

A study of important works of painting, sculpture and architecture from the Renaissance to the present with emphasis on stylistic analysis and the relationship of art to its cultural and historical setting. (E)

General Education Humanities

General Education Disciplinary/Interdisciplinary Option

Prerequisites: ENG 1030

AH 3275 History of Photography (3)

An overview of technological developments, artistic movements, and important trends in photography from 1839 to the present and an introduction to the major artists in the discipline. Emphasis will also be placed on contemporary directions and the use of digital photography.(E3)

AH 3700 American Art (3)

American art and its cultural and historical contexts from colonial times to the present. (FO)

AH 3710 Italian Renaissance Painting (3)

Italian painting from the fourteenth to the sixteenth century in Florence, Siena, Rome, and Venice. (FO)

Prerequisite: AH 1701

- AH 3711 Italian Art and Architecture: The Early Renaissance (3)**
The history of Italian painting, sculpture, and architecture of the fourteenth and fifteenth centuries with emphasis on the art of Florence, Siena, Rome and Venice. (FO)
Prerequisites: AH 1700, AH 1701, or permission of instructor. Students who have taken AH 3710 may not take this course for credit.
- AH 3712 Italian Art and Architecture: The High Renaissance and Mannerism (3)**
The history of Italian painting, sculpture, and architecture ca. 1470-1580 with emphasis on the art of Rome, Florence, Venice, and Milan. (FO)
Prerequisites: AH 1700, AH 1701, AH 3711, or permission of instructor.
- AH 3720 Baroque Art (3)**
European painting, sculpture, and architecture in the seventeenth century. (FO)
Prerequisite: AH 1701.
- AH 3725 Women in the Visual Arts (3)**
An exploration of the history of women artists with emphasis on the western world. (FO)
- AH 3730 Art of Ancient Egypt (3)**
Chronological survey of the arts of ancient Egypt from the Pre-dynastic Period to the Late Period. Includes discussion of related topics such as kingship, religion, and burial customs. Museum visits required; fees may apply. (FO)
Prerequisite: Junior standing or permission of instructor
- AH 3740 Modern Art: 1900-1950 (3)**
The central focus will be the development of modernist painting and sculpture, primarily in Paris, from 1880-1945. The rise of abstraction, art's relation to the growing urban and technological society, the dialogue between artists and writers, and the new techniques of collage and the readymade will be discussed. The role of the artworld will also be evoked. NY museum visit required. (FA, SP, SSI)
Prerequisites: AH 1701, GE 2025
- AH 3741 Contemporary Art (3)**
A study of painting and sculpture in Europe and America from 1945 to present, including new media such as performance art and site-specific installations. (E)
Prerequisite: AH 1701
- AH 3745 Impressionism and Post-Impressionism (3)**
European art from Manet to Van Gogh and Toulouse-Lautrec. (FO)
- AH 3750 The Art of China (3)**
The art of China from Neolithic time to the Ch'ing Dynasty. (FA)
Prerequisite: AH 1700 or 1701
- AH 3751 The Art of Japan (3)**
The art of Japan from prehistoric times to the end of the Edo Period with emphasis on painting, sculpture and architecture. (SP)
Prerequisite: AH 1700 or 1701
- AH 3752 The Art of India (3)**
The art and culture of India including Buddhist art, Moslem art, Hindu art and art of Southeast Asia. (FO)
Prerequisite: AH 1700 or 1701
- AH 3760 Medieval Art (3)**
Study of art and culture of the Medieval periods in Europe, the Middle East, and Asia. Emphasis on function and style within cultural and historical context. Museum entrance fee may apply (or be required). (E3)
Prerequisite: AH 1700 or AH 1701
- AH 3770 Greek and Roman Art (3)**
Study of works of art from Archaic and Classical Greece, the Hellenistic Age, the Roman Republic and the Roman Empire. Museum entrance fee may apply (or be required). (E3)
Prerequisites: AH 1700 or AH 1701
- AH 3771 Byzantine Art (3)**
Study of art and culture of the Byzantine period (Medieval Eastern Roman Empire). Emphasis on function and style within cultural and historical context. Museum entrance fee may be required. (E3)
Prerequisites: AH 1700 or AH 1701
- AH 3780 Art in Africa (3)**
Selected topics in the arts of sub-Saharan Africa. Emphasis on traditional art of West Africa. Other topics of discussion: Central, Eastern, and Southern Africa and non-traditional art. Museum attendance required; fees may apply. (SP)
Prerequisites: AH 1700 or AH 1701; permission of instructor
- AH 3781 African American Art (3)**
Survey of major contributions of American artists of African descent from the 18th century to the present. Discussion includes painting, sculpture, architecture, photography, and textile art (e.g. quilting). Museum visits required; fees may apply. (FO)
Prerequisites: Junior standing or permission of instructor
- AH 3790 History of Furniture and Interiors (3)**
Chronological examination of the formal, structural and motivating characteristics of furniture and interior decoration in significant periods, especially the classic, Gothic, Italian, French, English, and American. Textiles, their qualities, designs, and colors. Special attention given to the adaptation of past work to contemporary usage. (FA)
- AH 3792 History of Western Architecture (3)**
Chronological survey of selected key monuments from prehistory to the twenty-first century, emphasizing structural, programmatic, and formal analysis. Emphasis on western traditions and the cultural and historical significance of architecture. (FA)
Prerequisites: AH 1700 or AH 1701
- AH 3793 Sacred Space and Sacred Landscape (3)**
An examination of how humans have construed the sacred in history, particularly how they have imbued landscape and created architecture to embody and give shape to sacredness. Course will cover theoretical, religious, ritual, and mystical aspects of the sacred, and then examine examples of sacred architecture and sacred landscape from different time periods and cultures. (FO)
Prerequisites: AH 1700 or AH 1701
- AH 3795 Pre-Columbian Arts of the Americas (3)**
One semester survey course designed to acquaint students with the various arts of several Pre-Columbian cultural groups, from Mexico, to Central America, to the Andes in South America. Architecture, sculpture, and painting will be placed in religious and social contexts using interdisciplinary methodologies. Museum fees optional. (Every third SP)
Prerequisites: AH 1700 or AH 1701
- AH 3796 History of Modern Latin American Art and Architecture (3)**
A chronological and thematic survey of key monuments and artists in 20th century Latin America that emphasizes regional historical, cultural, and social contexts as well as international currents of Modernism. Painting, sculpture, photography, and architecture as well as connections with politics and other arts in a historical context will be covered. (Every third SP)
Prerequisites: AH 1700 or AH 1701
- AH 4000-4001 Independent Study in Art History (3, 3)**
Independent projects in art history initiated by the student and executed under close supervision of a faculty member. Projects should be advanced or specialized. (E, SSI, SSII)
Prerequisite: Permission of instructor.
- AH 4200 Art History Internship (3)**
Structured work experience in a museum, gallery, corporate art collection, or cultural organization. (E, SSI, SSII)
Prerequisites: Declared Art History major or minor; faculty recommendation; may be repeated once for credit
- AH 4700 Art History Research Seminar (3)**
Advanced projects in art history pursued through independent research and group critique. Students conduct original art historical research. (SP)
General Education Capstone
Prerequisites: Required of Art History majors. Others by permission of instructor
- AH 4710 History of Drawings and Prints (3)**
Techniques, uses, and historical development of drawing and printmaking, with emphasis from Durer and Rembrandt through the modern era. (FO)
Prerequisite: AH 1701 or FA 3260 or 3261
- AH 4720 Exhibiting Modern Art (3)**
Traces the history of art exhibition practices from the nineteenth century to the present. How modern art was defined, promoted and interpreted through art exhibitions. Innovative exhibitions and installations will be studied as case examples. (Every third SP)
Prerequisites: AH 1701 or AH 3740, or permission of instructor
- AH 4770 Italian Art and Architecture Study Tour (3)**
From Ancient Rome to the Present Day a four-week course in Italy that introduces the wonders of studying art and architecture in their original location and cultural context. Visit museums and archaeological sites to explore Italy's Ancient Greek, Roman, Early Christian, Medieval, Renaissance, Baroque, and Modern monuments. (FO)

Fine Arts

Kean University offers a major and a minor in Fine Arts and a major and a minor in Art History. The Fine Arts Major includes a B.A. in Fine Arts, a B.A. Art Education (with Teacher Certification) and a B.F.A. in Studio Art and an option in Photography. For a description of the B.A. in Art History and Art History Minor see separate listing in the catalog.

Fine Art Majors

B.A. in Fine Arts: 54 credit hours in the major. A program designed for those interested in fine arts with a liberal arts background.

B.A. in Art Education (with Teacher Certification): 72 credit hours comprised of 42 credit hours in major plus 30 credit hours in Art Education and Education.

B.F.A in Studio Art.: 78 credit hours in the major. An intensive professional program which allows for the greatest specialization in Studio Art. Photography Option: 72 credit hours in the major. An intensive B.F.A. program which allows for professional specialization in Photography.

B.A. DEGREE

The B.A. in Fine Arts is a liberal arts major providing a background in studio art including study in art history, studio foundations, and various applications of art. Additional skills developed in this program of study knowledge and appreciation of art and aesthetics, oral and written communication, creative and critical thinking, and cultural awareness and sensitivity.

B.A. FINE ARTS 124 (44300)

GENERAL EDUCATION 46-48

FOUNDATION REQUIREMENTS¹ 13

GE 1000 Transition to Kean² 1

OR

GE 3000 Transfer Transitions² 1

ENG 1030 College Composition³ 3

MATH 1000, 1010, 1016, or 1030 3

COMM 1402 Speech Communication as Critical Citizenship 3

GE 2025 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

(Select two from different areas below)

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages (Must take I and II for credit) 3

Music or Theater 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

(Select two from different areas below)

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 10-11

**MATH 1010; 1013; 1016; 1030; 1045 (depending on choice made in Foundations Req.) or CPS 1031; 1032; 1231

(Select two from below; one must be a lab science)

Biology 3, 4

Chemistry or Physics 3, 4

Astro, Earth Sci, Geol or Meteor 3, 4

Interdisciplinary 3, 4

Health/Physical Education 2, 3

ID 1225 Issues Contemporary Health 3

OR

ID 1010 Leisure & Recreation in Multicultural Society 3

OR

Physical Education 1

Physical Education 1

MAJOR/GE CAPSTONE COURSES³ 3

FA 4800 Meaning/Making in the Visual Arts [WE] 3

ADDITIONAL REQUIRED COURSES 6

AH 1700 Art from Prehistory through Middle Ages 3

AH 1701 Art from Renaissance to Modern World 3

ACADEMIC MAJOR REQUIREMENTS 42

FOUNDATION REQUIREMENTS 30

FA 1100 2-D Design 3

FA 1101 3-D Design 3

FA 1230 Drawing I 3

FA 2405 Drawing II 3

FA 2100 Color Theory 3

FA 2200 Intro to Painting 3

FA 2276 Sculpture Cast

OR

FA 2277 Sculpture Fab. 3

FA 2110 Computer Art I 3

AH 3740 Modern Art 3

AH 3741 Contemporary Art 3

MAJOR ELECTIVE REQUIREMENTS 12

4 courses selected from one major area (2/D, 3/D, and Media)

One additional art history course may be taken as a substitution

Two-Dimensional

FA 2210 Watercolor

FA 2230 Life Drawing

FA 3202 Painting Workshop (may be repeated for credit)

FA 2260 Introductory Printmaking

FA 3261 Inter. Printmaking

FA 4262 Advanced Printmaking

FA 4000 Independent Study

FA 4001 Independent Study

One additional Art History course:

AH 3730 Egyptian Art

AH 3750 The Art of China

AH 3751 The Art of Japan

AH 3752 The Art of India

AH 3780 Art in Africa

AH 3795 Pre-Columbian Art of the Americas

AH 3796 History of Modern Latin American Art/Arch.

Media

FA 2270 Photography

FA 3271 Intermediate Photography

FA 3111 Computer Art II

FA 2671 Single Camera Video Production

FA 3672 Experimental Video

FA 4000 Independent Study

FA 4001 Independent Study

One additional Art History course:

AH 3730 Egyptian Art

AH 3750 The Art of China

AH 3751 The Art of Japan

AH 3752 The Art of India

AH 3780 Art in Africa

AH 3795 Pre-Columbian Art of the Americas

AH 3796 History of Modern Latin American Art/Arch.

Three-Dimensional

FA3276/FA 3277 Sculpture (whichever was not used in foundations section)

FA 2280 Ceramic I

FA 3281 Ceramics II

FA 4280 Ceramics III

FA 4281 Ceramics IV

FA 4282 Ceramics V

FA 3279 Ceramics Sculpture

FA 2284 Intro to Textiles

FA 2285 Surface Design on Fabrics

FA 2286 Weaving I

FA 3287 Weaving II (Advanced Fibers)

FA 2250 Basic Metalwork and Jewelry

FA 3251 Intermediate Metalwork and Jewelry

FA 4283 Advanced Metals

FA 2288 Furniture I

FA 3289 Furniture II

FA 2290 Woodworker's Art

FA 4000 Independent Study

FA 4001 Independent Study

One additional Art History course:

AH 3730 Egyptian Art

AH 3750 The Art of China

AH 3751 The Art of Japan

AH 3752 The Art of India

AH 3780 Art in Africa

AH	3795	Pre-Columbian Art of the Americas
AH	3796	History of Modern Latin American Art/Arch.

FREE ELECTIVES: 28-30
(50% of free electives must be taken at the 3000-4000 level)

¹ See prerequisites and equivalencies

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

³ All major courses, including the Capstone and Eng 1030 require a grade of C or better

⁴ The three credits for a foreign language that may satisfy the GE Disciplinary/Interdisciplinary Distribution Requirement are awarded only upon successful completion of two semesters of study at the introductory or intermediate level.

*Required Distribution Course

MINOR IN FINE ARTS

MINOR REQUIREMENTS 18

FOUNDATION REQUIREMENTS 9

Required Courses

FA	1100	2-D Design
FA	1101	3-D Design
FA	1230	Drawing I

MINOR ELECTIVES 9

Any three additional FA* courses or two FA and one 3000 AH course with advisement
(*excluding FA 1000 Intro to Art)

B.A. DEGREE IN ART EDUCATION

(OPTION: P-12 ART TEACHER CERTIFICATION)

The B.A. Degree in Art Education is a highly rigorous and intensive program that prepares students for careers as professional educators and leads to New Jersey Certification in the Teaching of Art, grades P-12.

The program's philosophical approach is rooted in current research which identifies psychology as a critical substructure of the artistic process. The integration of sensory, emotional, kinesthetic, and cognitive processes and implications to the development of global intelligence through artistic learning are emphasized. The program's intellectually challenging course of study prepares future educators to engage in conceptual thought about learning in the visual arts and translate these understandings into a grounded, vivified and highly effective classroom practice.

The Art Education Program seeks only serious, responsible and academically strong students. The program is writing and reading intensive and also demands a clearly developing practice in the studio arts. To ensure retention in the program, accepted students are required not only to maintain a cumulative GPA of 3.0 or above and a high level of academic achievement

but also to exhibit professional performance by maturely and responsibly meeting all deadlines and expectations in courses and fieldwork.

Program Admission Interview:

Program admission is competitive. Admission to Kean University does not indicate admission into the Art Education Program. All prospective students must contact the program coordinator for an interview as soon as possible during freshman year and no later than fall of sophomore year.

Applicants must demonstrate the following:

- (1) A grade report showing a cumulative GPA of 3.00 or above.
- (2) Clearly developing studio work or an early portfolio
- (3) A proficient academic writing sample
- (4) Capability in dialogic/communication skills
- (5) Recommendations from faculty members (may also be required)

*Important: The Praxis Core test (reading, writing, and math) is required prior to official admission into the program. It should be taken as soon as possible. It may be taken after the initial program admission interview, during freshman year or early in sophomore year. Students are very strongly advised to inquire about obtaining university-based tutoring and intensively reviewing the Praxis Core Study Guide. It is also very strongly advised that students take "Exam Edge" (an on-line practice test offered free of charge) prior to taking the actual Praxis Core test. Qualifying scores must be received prior to student beginning any fieldwork.

Important Notes:

- (1) Students must earn a B- or above in COMM 1402, ENG 1030, and take the Praxis I (see above). The Speech Examination must also be taken.
- (2) FA 2900 must be taken in sophomore year before all other art education courses and requires special permission.
- (3) Students should begin taking core studio courses (such as Drawing I, Drawing II and/or 2D Design) alongside general education courses during fall and spring of freshman year in order to cultivate the necessary skills needed for junior year fieldwork.
- (4) It is extremely important that, when students anticipate beginning fieldwork, they strictly observe application deadlines set by the Teaching Performance Center. These deadlines are set nearly a year prior to actual fieldwork (February 1 for placements in the following fall and April 15th for placements in the following spring).
- (5) The Praxis II test must be taken in junior year and scores submitted to the University before FA4991 (Professional Internship in Art Ed) in senior year.
- (6) Capstone EDUC4000 must be taken with FA4991 (Professional Internship in Art Ed).
- (7) All incoming students should obtain the Art Education Program Guide Sheet from

the Fine Arts Department to view the most current listing of course and program requirements.

- (8) It is each student's responsibility to carefully read this information (and all other program-based information) and adhere to all requirements.

B.A. FINE ARTS/TEACHING CERTIFICATION 130 44397

GENERAL EDUCATION 44-45

FOUNDATION REQUIREMENTS¹ 13

GE 1000 Transition to Kean² 1

OR

GE 3000 Transfer Transitions² 1

ENG 1030 College Composition³ 3

MATH 1000 Algebra for College Students 3

COMM 1402 Speech Communication as Critical Citizenship³ 3

GE 2025 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

*ENG 2403 World Literature 3

(Select two from different areas below)

*FA 2950 Creative Concepts in Arts and Crafts 3

Philosophy or Religion 3

Foreign Languages (Must take I and II for credit)⁴ 3

Music or Theater 3

Interdisciplinary 3

Social Sciences 9

*HIST 1062 Worlds of History 3

(Select two from different areas below)

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 10-11

*MATH 1010 Foundations of Mathematics 3

(Select two from below; one must be a lab science)

Biology 3, 4

Chemistry or Physics 3, 4

Astro, Earth Sci, Geol or Meteor 3, 4

Interdisciplinary 3, 4

Health/Physical Education 3

ID 1225 Issues Contemporary Health 3

Additional Required Courses⁵ 12

ID 2955 Disabled Person in Amer.Soc 3

PSY 2100 Child Psychology

OR

PSY 2110 Psychology of Adolescence 3

AH 1700 Art from Prehistory through Middle Ages 3

AH	1701	Art from Renaissance to the Modern World	3
ACADEMIC MAJOR REQUIREMENTS			42
FOUNDATION REQUIREMENTS³			18
FA	1100	2-D Design	3
FA	1101	3-D Design	3
FA	1230	Drawing I	3
FA	2405	Drawing II	3
FA	2200	Intro to Painting	3
FA	2276	Sculpture Cast	3
OR			
FA	2277	Sculpture Fab.	3
ADDITIONAL MAJOR REQUIREMENTS³			12
FA	2230	Life Drawing	3
FA	2260	Intro Printmaking	3
FA	2110	Computer Art I	3
AH	3740	Modern Art *OR*	
AH	3741	Contemporary Art	3
MAJOR ELECTIVES/AREA OF SPECIALIZATION³			9
Select three FA courses with advisement (see listing of art electives below). At least two must be at the 3000 level or above. One 3000-4000 level AH course may be taken as a substitution.			
MAJOR/GE CAPSTONE COURSE³			3
FA	4800	Meaning/Making in the Visual Arts (WE)	3
<i>Art Electives</i>			9
Three courses from one of the following areas, with advisement. Select only courses which have not already been used to satisfy foundation requirements.			
Painting & Drawing			
FA	2210	Watercolor	
FA	3202	Painting Workshop	
FA	2230	Life Drawing	
Printmaking			
FA	2260	Introductory Printmaking	
FA	3261	Intermediate Printmaking	
FA	4262	Advanced Printmaking	
Sculpture			
FA	2276 or 2277	Sculpture	
FA	2280	Ceramics I	
FA	2250	Basic Metalwork and Jewelry	
FA	2288	Furniture I Wood	
FA	2288	Furniture I	
FA	3289	Furniture II	
FA	2290	Woodworker's Art Metals	
FA	2250	Basic Metalwork and Jewelry	
FA	3251	Inter. Metals	
FA	4283	Advanced Metals	
Ceramics			
FA	2280	Ceramics I	
FA	3281	Ceramics II	
FA	4280	Ceramics III	

Fibers			
FA	2285	Surface Design	
FA	2286	Weaving I	
Video			
FA	2671	Single Camera Video Production	
FA	3672	Experimental Video	
Computer Art			
FA	2110	Computer Art I	
FA	3111	Computer Art II	
Photography			
FA	2270	Photography	
FA	3271	Intermediate Photography	
PROFESSIONAL EDUCATION⁶			30
EDUCATION CORES			7
EMSE	3903	English Language Learners in Amer. Schools	1
EDUC	3000	Curr. Eval.& the Learner	3
EDUC	3400	LA/Reading in Preschool Elementary Curric.	
OR			
EDUC	3401	LA/Reading in K-12 Subject Area Teaching (recommended)	3
ART EDUCATION			20
FA	2900	Field Exp /Mult. Art Ed Setting ⁷	3
FA	3900	Art Education I: The Child	3
FA	3901	Art Education II: The Adolescent	3
FA	3902	Art Education Field Experience I: Elementary	1
FA	3903	Art Education Field Experience II: Secondary	1
FA	4991	Prof. Internship in Art Ed	9
MAJOR/GE CAPSTONE COURSE			3
EDUC	4000	Teacher & Classroom ⁸	3
FREE ELECTIVES			1-2
(at least 50% must be 3000/4000 level)			
<i>*Required GE course.</i>			
¹ See prerequisites and equivalencies			
² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).			
³ Eng 1030, Comm 1402, all major courses, including the Capstone, require a grade of B- or better.			
⁴ The three credits for a foreign language that may satisfy the GE Requirement are awarded only upon successful completion of two semesters of study at the introductory or intermediate level.			
⁵ A grade of C or better is required for all Additional GE courses.			
⁶ A B- or better is required for all professional education courses.			
⁷ FA 2900 must be taken in Sophomore year and prior to FA3900			

⁸ EDUC 4000 serves as a capstone course for both the major professional education major and the GE program

B.F.A. DEGREE

STUDIO ART

The B.F.A. degree requires 78 hours in the major and offers intensive professional programs which require specialization from among the particular options listed below. General Education requirements are the same for all B.F.A. options.

This B.F.A. degree program prepares graduates to be professional artists. It provides for in-depth specialization in a selected studio area and is based upon the breadth of knowledge provided through a liberal arts background combined with a studio arts foundation.

This program of study emphasizes personal growth in the critical, creative, technical and professional aspects of the studio arts. It can also serve as preparation for graduate study and for related careers such as the teaching of art on the post-secondary level.

Students must present a portfolio prior to being accepted into the B.F.A. Studio Art program.

Students who are accepted into this degree program at the time of the portfolio review are given "provisional" status. Provisional B.F.A. majors must maintain a 3.0 GPA in Fine Arts and Art History courses.

After completion of at least 30 s.h. in Fine Arts and Art History courses, all provisional B.F.A. majors must successfully complete a second portfolio review process in order to attain "fully admitted" status. Any student having completed 30 s.h. in Fine Arts and Art History courses with a 3.0 GPA is eligible to submit to the portfolio review process. Students not accepted may reapply at a later date.

B.F.A. students must maintain a 3.0 GPA in Fine Arts and Art History to be eligible for the degree.

B.F.A. students are required to exhibit a body of work in conjunction with the Mentor Sequence.

B.F.A. DEGREE STUDIO ART 128 (44500)

GENERAL EDUCATION 32

FOUNDATION REQUIREMENTS¹ 13

GE	1000	Transition to Kean ²	1
OR			
GE	3000	Transfer Transitions ²	1
ENG	1030	College Composition ³	3
MATH	1000, 1010, 1016, or 1030		3
COMM	1402	Speech Communication as Critical Citizenship	3
GE	2025	Research & Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

<i>Humanities</i>			6
*ENG	2403	World Literature	3
(Select one from below)			
Fine Arts	(2300, 2950, 2150)		3

Philosophy or Religion	3	FA 2300 Visual Thinking	FA 3251 Intermediate Metalwork and Jewelry
Foreign Languages ⁴	3	FA 2210 Watercolor	FA 4283 Adv. Metalwork and Jewelry (may be repeated for credit)
Music or Theater	3	FA 3202 Painting Workshop (may be repeated for credit)	FA 4000 Independent Study
Interdisciplinary	3	FA 3261 Intermediate Printmaking	FA 4001 Independent Study
Social Sciences	6	FA 4262 Advanced Printmaking (may be repeated for credit)	Choose one additional class from:
*HIST 1062 Worlds of History (Select one from below)	3	FA 4000 Independent Study	Ceramics or Sculpture
Psychology	3	FA 4001 Independent Study	One additional Art History
Economics or Geography	3	Printmaking/Papermaking/Book Arts	Ceramics
Political Science	3	Select 6 courses from below:	Select 6 courses from below:
Sociology or Anthropology	3	FA 2300 Visual Thinking	FA 2300 Visual Thinking
Interdisciplinary	3	FA 3261 Intermediate Printmaking	FA 3281 Ceramics II
Science & Mathematics	7	FA 4262 Advanced Printmaking (may be repeated for credit)	FA 3279 Ceramics Sculpture
*MATH 1010; 1016; 1030; 1054 or CPS 1032	3	FA 2259 Papermaking and Book Arts	FA 4280 Ceramics III
(Select one lab science from below)		FA 4000 Independent Study	FA 4281 Ceramics IV
Biology	4	FA 4001 Independent Study	Choose one class from Metals (#not used as foundation requirement)
Chemistry or Physics	4	Additional Art History	FA 4000 Independent Study
Astro, Earth Sci, Geol or Meteor	4	Illustration	FA 4001 Independent Study
Interdisciplinary	4	Select 6 courses from below:	Media/Video
Additional Required Courses	6	FA 2300 Visual Thinking	Select 6 courses from below:
AH 1700 Art from Prehistory through Middle Ages	3	FA 2240 Illustration I	FA 2300 Visual Thinking
AH 1701 Art from Renaissance to Modern World	3	FA 3342 Illustration II	FA 3672 Experimental Video
ACADEMIC MAJOR REQUIREMENTS³	78	FA 3111 Computer Art II	Photography (FA class # not used as foundation requirement)
FOUNDATION REQUIREMENTS	21	FA 2210 Watercolor	FA 3111 Computer Art II
FA 1100 2-D Design	3	FA 3202 Painting Workshop (may be repeated for credit)	FA 4000 Independent Study
FA 1101 3-D Design	3	FA 4000 Independent Study	FA 4001 Independent Study
FA 1230 Drawing I	3	FA 4001 Independent Study	One additional Art History
FA 2405 Drawing II	3	Sculpture	Mixed Media
FA 2100 Color Theory	3	Select 6 courses from below:	Combinations between areas of studio specializations will be accepted with Department approval.
FA 2200 Intro to Painting	3	FA 2300 Visual Thinking	MAJOR/GE CAPSTONE COURSES³ 3
FA 2276 Sculpture Cast		FA 3276 or 3277 Sculpture (# not used as foundation requirement)	FA 4795 Mentor Sequence I 1
OR		FA 3290 Woodworker's Art	FA 4796 Mentor Sequence II 1
FA 2277 Sculpture Fab.	3	FA 4276 Advanced Sculpture	FA 4797 Mentor Sequence III 1
ADDITIONAL MAJOR REQUIREMENTS	36	FA Ceramics (# not used as foundation requirement)	FREE ELECTIVES: 12
FA 2230 Life Drawing	3	FA Metals (# not used as foundation requirement)	*Required GE course.
FA 2260 Introductory Printmaking	3	FA 4000 Independent Study	¹ See prerequisites and equivalencies
FA 2110 Computer Art 1	3	FA 4001 Independent Study	² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).
FA 2270 Photography or FA 2275 Digital Photography	3	Wood	³ All major courses, including the Capstone and Eng 1030 require a grade of C or better
FA 2671 Single Camera Video Production	3	Select 6 courses from below:	⁴ The three credits for a foreign language that may satisfy the GE Disciplinary/Interdisciplinary Distribution Requirement are awarded only upon successful completion of two semesters of study at the introductory or intermediate level.
FA 2280 Ceramics I	3	FA 2300 Visual Thinking	
FA 2250 Basic Metalwork & Jewelry	3	FA 3289 Furniture II	
FA 2288 or 2290 Wood/Furniture	3	FA 2288 or 2290 Wood/Furniture (# not used as foundation requirement)	
FA 4100 Directions in Studio Art	3	Choose one additional class from:	
FA 4800 Meaning and Making in the Visual Arts [WE]	3	Sculpture, Metals, or Ceramics	
AH 3740 Modern Art	3	FA 4000 Independent Study	
AH 3741 Contemporary Art	3	FA 4001 Independent Study	
Area of Studio Art Specialization: (selected from one major area below)	18	Additional Art History	
Painting/Drawing		Metals	
Select 6 courses from below:		Select 6 courses from below:	
		FA 2300 Visual Thinking	

B.F.A. STUDIO ART

PHOTOGRAPHY OPTION

The B.F.A. Studio Art: Photography Option has been designed to provide students with comprehensive technical and aesthetic training in photography necessary for initial employment within the field. This option provides a unique perspective in which students will have the opportunity to study the complex relationships between photography as an art form; the evolving photographic aesthetic technologies; and the utilization of photography as a communications tool in the business world.

The combination of technological and artistic skills will provide an excellent background from which the student may pursue advanced educational opportunities or find employment in a wide range of positions with the photographic field.

B.F.A. Photography Option students must maintain a 3.0 GPA in Fine Arts and Art History to be eligible for the degree.

B.F.A. Photography Option students are required to exhibit a body of work in conjunction with the Mentor Sequence.

B.F.A. STUDIO ART: PHOTOGRAPHY OPTION (44501) 131

GENERAL EDUCATION 35

FOUNDATION REQUIREMENTS¹ 13

GE 1000	Transition to Kean ²	1
OR		
GE 3000	Transfer Transitions ²	1
ENG 1030	College Composition ³	3
MATH 1000, 1010, 1016, or 1030		3
COMM 1402	Speech Communication as Critical Citizenship	3
GE 2025	Research & Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities		6
*ENG 2403	World Literature (Select one from below)	3
Fine Arts (2950, 2150)		3
Philosophy or Religion		3
Foreign Languages ⁴		3
Music or Theater		3
Interdisciplinary		3
Social Sciences		6
*HIST 1062	Worlds of History (Select one from below)	3
Psychology		3
Economics or Geography		3
Political Science		3
Sociology or Anthropology		3
Interdisciplinary		3
Science & Mathematics		7
*MATH 1010; 1016; 1030; 1054 or CPS 1032		

(Select one lab science from below)		
Biology		4
Chemistry or Physics		4
Astro, Earth Sci, Geol or Meteor		4
Interdisciplinary		4

MAJOR/GE CAPSTONE COURSES³ 3

FA 4795	Mentor Sequence I	1
FA 4796	Mentor Sequence II	1
FA 4797	Mentor Sequence III	1

ADDITIONAL REQUIRED COURSES 6

AH 1700	Art from Prehistory through Middle Ages	3
AH 1701	Art from Renaissance to Modern World	3

ACADEMIC MAJOR REQUIREMENTS³ 72

FOUNDATION REQUIREMENTS 21

FA 1100	2-D Design	3
FA 1101	3-D Design	3
FA 1230	Drawing I	3
FA 2405	Drawing II	3
FA 2100	Color Theory	3
FA 2200	Intro to Painting	3
FA 2276 or 2277	Sculpture	3

ADDITIONAL MAJOR REQUIREMENTS 51

FA 2110	Computer Art I	3
FA 2260	Introductory Printmaking	3
FA 2270	Photography	3
FA 2275	Digital Photography I	3
FA 2300	Visual Thinking	3
FA 2671	Single Camera Video Production	3
FA 3111	Computer Art II or FA 3672 Experimental Video	3
FA 3271	Inter. Photography	3
FA 3272	Large-Format Photography	3
FA 3273	Photojournalism & Documentary Photo.	3
FA 3274	Extended Forms in Photography	3
FA 3275	Digital Photography II	3
FA 3370	Commercial Photo. Fundamentals 3	
FA 4800	Meaning/Making in the Visual Arts [WE]	3
FA 3380	Business Practices in the Visual Arts	3
AH 3275	History of Photography	3
AH 3741	Contemporary Art	3

FREE ELECTIVES: 18

*Required GE course.

¹ See prerequisites and equivalencies

² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

³ All major courses, including the Capstone and Eng 1030 require a grade of C or better

⁴ The three credits for a foreign language that may satisfy the GE Disciplinary/Interdisciplinary Distribution Requirement are awarded only upon successful completion of two semesters of study at the introductory or intermediate level.

FINE ARTS COURSES

GENERAL AND INTRODUCTORY

FA 1000 Introduction to Art (3)
An exploration of the theories and techniques of art and the creative process, through direct experience with material and ideas. For non-art majors only. (E)
General Education Disciplinary/Interdisciplinary in Humanities
Prerequisites: None

FA 1001 Beginning Painting for Non-Art Majors (3)
An introductory studio course for non-art majors dealing with the materials, techniques, and history of the painting medium. A course offering a direct experience with the creative process through color and paint, as well as an introduction to historical and contemporary painting. No previous art experience necessary. Supply fees required. (E)

FA 1003 Beginning Printmaking for Non-Art Majors (3)
An introductory studio course for non-art majors dealing with the hand printed image as an art form. Emphasis is on conceptual development and technical skills. Supply fees required. (FO)
Prerequisites: None

FA 2300 Visual Thinking (3)
This course emphasizes the main components involved in the creation of art and design: design principles, problem solving, subject matter, communication, visualization, and creativity. Emphasis is on expanding the student's perceptual and conceptual skills, creative range, and use of various media as they relate to these components. (E)
Prerequisites: None
B.F.A./Studio Concentration Option, General Education Disciplinary/Interdisciplinary Humanities Option

FA 3700 Japan/Kumamoto Travel-Learn
This course provides a unique travel and learning experience that allows students to study the art and cultures of the Japanese people. Exposure to various applied Japanese craft techniques will supplement studies in studio art, ceramics, art history, or Japanese studies. (SSI)
Prerequisite: none

STUDIO

FA 1100 Two-Dimensional Design (3)
A studio course concerning the visual elements and principles of design with focus on two-dimensional concepts and media. Supply fees required. (E)
Prerequisite: None

FA 1101 Three-Dimensional Design (3)
A studio course concerning the visual elements and principles of design with focus on three-dimensional concepts, media, and techniques. Students required to purchase materials/supplies. (E)
Prerequisite: None

FA 1230 Drawing I (3)
Studio course exploring materials, concepts, and methods of drawing, with emphasis on personal artistic expression. Historic and contemporary examples of style, media, and technique will also be addressed. (E)

FA 2100 Color Theory (3)
A studio course which investigates various color theories and their interaction with perceptual, cultural and individual responses. Supply fees required. (E)

FA 2110 Computer Art I (3)
Studio course exploring the computer as a tool for artists. Emphasis on concept development and an overview of techniques such as basic drawing/illustration, collage, and image manipulation. Students required to purchase materials/supplies. (E)
Prerequisites: None

FA 2150 Digital Multimedia Arts (3)
Studio and lecture course using digital arts hardware and software for artistic expression and professional development. Emphasis on developing creative and technical skills, and integrating still images, audio and video. The software is cross platform and the laboratory is equipped with Macintosh computers. (E)
Prerequisites: GE 2021, 2022, 2023, 2024

FA 2200 Introduction to Painting for Fine Art Majors (3)
An introduction to fundamental methods and theory of painting with emphasis on both traditional and contemporary forms and materials. For art majors only. Supply fees required. (E)
Prerequisite: FA 1100, FA 1230, FA 2100

FA 2210 Watercolor (3)
Materials and methods in the art of water-color with experience in both opaque and transparent pigments. Theory and studio practice with historic developments in style. (E)

FA 2230 Life Drawing (3)
A study of human form through drawing from life. The human form in the expression of other cultures and our own. Students required to purchase materials/supplies. (E)
Prerequisites: FA 1230

FA 2240 Illustration I (3)
Studio course teaching the preparation and presentation of illustrative art for various commercial media, consistent with recognized professional standards. Students required to purchase materials/supplies. (SP)
Prerequisites: FA 1100, FA 1230

FA 2250 Basic Metalwork and Jewelry (3)
Introductory studio course for designing and creating jewelry and other metal objects. Emphasis on conceptual development and technical skills such as soldering, fabrication, and forming. Students required to purchase materials/supplies. (E)
Prerequisites: None

FA 2259 Papermaking and Book Arts (3)
Introductory studio course in papermaking and bookbinding techniques. Emphasis on conceptual development and technical skills dealing with various traditional and non-traditional applications of the media. Students required to purchase materials/supplies. (E)
Prerequisites: FA 1100 and FA 1230

FA 2260 Introductory Printmaking (3)
Introductory studio course exploring the basics of non-toxic printmaking techniques including relief and intaglio. Emphasis on creative development and technical skills. Students required to purchase materials/supplies. (E)
Prerequisites: FA 1230

FA 2270 Photography (3)
Basic Photography, including exposure, developing, printing and enlarging. Historic and contemporary forms in photography. Students required to purchase materials/supplies. (E)
Prerequisites: None

FA 2275 Digital Photography I (3)
An introductory studio course in modern digital photography and its applications including the use of digital cameras and all of their controls. Emphasis is also placed on photography as a creative medium and Photoshop and its application to digital photography. Students are required to have their own camera and purchase materials/supplies. (E)

FA 2276 Sculpture Workshop: Fabrication (3)
A studio course in the materials and methods of sculpture emphasizing individual expression and selection through fabrication techniques. Field trip(s). Students required to purchase materials/supplies. (E)
Prerequisite: FA 1100, 1101, 1230

FA 2277 Sculpture Workshop: Modeling and Casting (3)
A studio course in the materials and methods of sculpture emphasizing individual expression and selection, through modeling and casting processes. Field Trip(s) Students required to purchase materials/supplies. (E)
Prerequisite: FA 1100, 1101, 1230

FA 2280 Ceramics I (3)
Studio course in ceramic art. Deals with hand-building, potter's wheel, surface treatment, chemical and physical properties of clay and glazes, as they relate to three-dimensional design in clay. Historical and cultural aspects of ceramics. (E, SSL)

FA 2288 Furniture Making I (3)
Studio course in designing and making furniture as an art form. Emphasis on creativity and originality. Techniques of fabrication, joining and finishing. Integration of concept, materials and process. Students required to purchase materials/supplies. (E)
Prerequisites: None

FA 2290 The Woodworker's Art (3)
Studio course in designing and working with wood, emphasizing original expression. Exploring the nature of wood, and related materials, and working with the tools, equipment, processes of the designer-craftsman woodworker. Students required to purchase materials/supplies. (SP)
Prerequisites: None

FA 2405 Drawing II (3)
Intermediate studio course exploring materials, concepts, and methods of drawing, with emphasis on observation, visual perception, and training of the imagination. Historic and contemporary examples of style, media, and technique will also be addressed. Students required to purchase materials/supplies. (E)
Prerequisites: FA 1230

FA 2406 Drawing: Rapid Visualization (3)
Studio drawing course in quick visual expression. Meets the needs of artists, designers, teachers, and anyone interested in developing skills of drawing quickly and communicating clearly with images. (FO)
Prerequisites: None

FA 3111 Computer Art II: Drawing and Painting (3)
In depth studio course focusing on 2-D electronic painting and drawing as artistic expression. Techniques addressed include, editing, manipulating and simulated hand painting and drawing. Emphasis is on creative and technical skills. Students required to purchase materials/supplies. (E)
Prerequisites: FA 2110 or permission of instructor

FA 3115 Internet Art (3)
Studio course exploring the Internet as a production tool, medium, and distribution outlet for artists. Emphasis on concept development, expressive potential, and media techniques, as well as an overview of the medium's history as it applies to creating a web based art project. Supply fees required. (FO)
Prerequisites: FA 3110 or FA 2150 or permission of the instructor

FA 3202 Painting Workshop (3)
A continuation of FA 2200 Introduction to Painting for Art Majors and FA 1001 Beginning Painting for Non-Art Majors. Emphasis on student choice and the development of a series of paintings in a single medium. (E, SSL)
Prerequisite: FA 1001, FA 2200. May be repeated for credit.

FA 3240 Fine Arts Internship (3)
Work related experience at sites approved by the Fine Arts Department, providing student with on-the-job opportunities in galleries, artist studios, or museums. Placement at a daily or weekly site for one semester. Hours to be arranged with the faculty advisor and employer/mentor. Generally requires 10 hours per week for 15 weeks of on-site service. (FO)
Prerequisite: Approval of Chair

FA 3251 Intermediate Metalwork and Jewelry (3)
Intermediate studio course on metalworking skills including casting, mechanisms, raising, sinking, and die forming techniques. Projects encourage creative expression and the broadening of traditional concepts of the field. Students required to purchase materials/supplies. (SP)
Prerequisites: FA 2250 or permission of instructor

- FA 3252 Basic Enameling (3)**
Introductory studio course exploring the basics of enameling on metal and its application to jewelry and object making. Emphasis on creative development and technical skills. (FO)
Prerequisites: None
- FA 3261 Intermediate Printmaking (3)**
Introductory studio course exploring intermediate skills of non-toxic printmaking techniques with focus on planar applications including silkscreen. Emphasis on creative development and technical skills. Students required to purchase materials/supplies. (FA)
Prerequisites: FA 1230, 2260
- FA 3271 Intermediate Photography (3)**
Technical procedures for achieving consistent and high-quality images in black-and-white photography. Students required to purchase materials/supplies. (E)
Prerequisites: FA 2270
- FA 3272 Large-Format Photography (3)**
Studio course in the use of large format cameras, film handling, exposure, development and dark-room considerations. New trends in large format digital photography. (FO)
Prerequisites: FA 2270
- FA 3273 Photojournalism and Documentary Photography (3)**
Studio course to examine the history and contemporary directions in photojournalism and documentary photography. Student will use this information to develop a personal artistic philosophy along with technical knowledge in producing a portfolio of photographs. (SP)
Prerequisites: FA 2270 or FA 2275
- FA 3274 Extended Forms in Photography (3)**
Studio course designed to explore non-traditional directions in the art of photography using new technology and mixed media. (FO)
Prerequisites: FA 2270
- FA 3275 Digital Photography II (3)**
An advanced studio course in modern digital photography and its applications, including the use of advanced digital cameras controls, Raw file format, color management, PhotoShop, and advanced applications in digital photography. Emphasis is also placed on a student portfolio of digital photographs and the development of a clear aesthetic vision. Students are required to have their own camera and purchase materials/supplies. (E)
Prerequisite: FA 2275 or permission of instructor
- FA 3279 Ceramic Sculpture (3)**
Exploration of clay as a sculptural medium, using traditional ceramic forming techniques. Clay body development, surface treatment, kiln firing instruction and glaze chemistry. May be repeated once for credit. (FO)
Prerequisite: FA 2280 or FA 3276 or FA 3277
- FA 3281 Ceramics II (3)**
Continuation of Ceramics I, with emphasis on student's controlling more of the process, including preparation of clay and glazes, and loading and firing kilns. (E, SS1)
Prerequisite: FA 2280
- FA 3289 Furniture Making II (3)**
Experimentation with furniture as abstract art form. Individual problems in designing and making furniture, continuing previously acquired skills. Emphasis on originality and creativity with design as a process. May be repeated once for credit. (E)
Prerequisite: FA 2288 or permission of instructor
- FA 3342 Illustration II (3)**
Studio course designed to teach the preparation and presentation of illustrative art for various commercial media which will be consistent with recognized professional standards. Second semester emphasizes the development of personal style. Students required to purchase materials/supplies. (SP)
Prerequisites: FA 2340
- FA 3370 Commercial Photography Fundamentals (3)**
Photography for advertising, industrial, and editorial applications. Emphasis on creative solutions to problems with specific objectives. Students required to purchase materials/supplies. (FE)
Prerequisites: FA 2270 or FA 2275
- FA 3380 Business Practices in the Visual Arts (3)**
A lecture course exploring the practical concerns of business as well as legal issues in commercial and fine art fields. Content includes copyright laws; organizing a business; interacting with publishers, galleries, agencies; writing basic contracts. Museum/gallery visits required, fees may apply. (FA)
Prerequisites: None
- FA 3671 Single-Camera Video Production (3)**
Introduction to basic camcorder operation, elementary editing, and preparation of single-camera video production. Emphasis on developing ideas and interpreting them visually and creatively. (E)
- FA 3672 Experimental Video (3)**
Introduction to the use of video as a creative medium. Use of a variety of sources and special effects to produce alternative and music videos. Emphasis on originality and concept development. (E)
- FA 4000-4001 Independent Study in Fine Arts I and II (3, 3)**
Independent projects in art initiated by the student and executed under close supervision of a faculty member. Projects should be advanced or specialized. (E)
Prerequisite: Permission of instructor
- FA 4262 Advanced Printmaking (3)**
A continuation of FA 3261 on an individualized basis. Advanced studio course with concentration on refining technical skills and developing a personal voice through creative expression. Emphasis on conceptual development and technical skills dealing with image development. May be repeated for credit. Students required to purchase materials/supplies. (SP)
Prerequisites: FA 2260 and 3261
- FA 4270 Problems in Photography (3)**
Individual and group problems in photography, selected to build upon previously acquired photographic skills, amplify expressive powers, and strengthen understanding of two-dimensional design. (FO)
Prerequisite: FA 3271 or equivalent
- FA 4276 Advanced Sculpture (3)**
Continuation of experiences in FA 3276 and 3277 on an individualized basis. (FO)
Prerequisites: FA 3276, FA 3277
- FA 4280 Ceramics III (3)**
Continuation of Ceramics I and II, with an emphasis on individual student's identification of individual problems and goals. Technical information includes clay body and glaze chemistry and kiln design and repair. May be repeated once for credit. (SP)
Prerequisites: FA 3281
- FA 4281 Ceramics IV (3)**
Study of whiteware techniques, using casting, throwing, and handbuilding skills. Development of porcelain, white stoneware, and talc clay bodies; with subsequent use and development of celadons, low fire glazes, underglazes, and overglaze techniques. (FA)
Prerequisites: FA 4280
- FA 4282 Ceramics V (3)**
Exploration of clay as a sculptural medium, using traditional ceramic forming techniques. Clay body development, surface treatment, kiln firing instruction and glaze chemistry. May be repeated once for credit. (FO)
Prerequisites: FA 4281
- FA 4283 Advanced Metalwork and Jewelry (3)**
Continuation of FA 3251 on an individualized basis. Emphasis on refining technical skills and maximizing creative expression in the medium. May be repeated for credit. (FA)
Prerequisites: FA 2250 or permission of instructor
- FA 4300 Directions in Studio Art (3)**
Lecture course addressing ideas and issues facing the studio artist, including exhibitions and art promotion. Emphasis on media, methods, and the development of a professional art portfolio. Two to four off-campus classes, including a trip to NYC, may require transportation. Museum ticket purchase may be required. (SP)
Prerequisites: Completion of 9 credits in studio specialization
- FA 4795 Mentor Sequence I (1)**
Begin to develop, with a faculty mentor, competency in the visual arts process by producing a body of work, engaging in critical assessment and developing a philosophical approach which emphasizes craft, aesthetic sensibility and professional growth. First course in the required Mentor Sequence which leads to a solo exhibition. (E)
Prerequisites: Approval of BFA Program Advisor and Junior Standing

FA 4796 Mentor Sequence II (1)
Continue to develop, with a faculty mentor, competency as an artist producing a body of work in preparation for a solo exhibition. Second course in the required three semester Mentor Sequence which leads to a solo exhibition. (E)
Prerequisites: FA 4795, Approval of BFA Program Advisor and Junior/Senior Standing

FA 4797 Mentor Sequence III (1)
Organize and mount, with a faculty mentor, a solo exhibition which demonstrates competence in a selected studio specialization. Final course in the required three semester Mentor Sequence. (E)
Prerequisites: FA 4795, FA 4796, Approval of BFA Program Advisor and Senior Standing

FA 4500 Museum Training: Theory (3)
The functions of the museum. Aspects of professional museum work; collection administration, education services. (FO)
Prerequisites: FA 1100, FA 1700 and FA 1701 or permission of instructor

FA 4501 Museum Training: Practice (3)
The application of the theory of museum training. Techniques of exhibition and curatorship, care of collections and connoisseurship. Introductory demonstrations in conservation for curators given in a technical laboratory. (FO)
Prerequisites: FA 1100, FA 1700, FA 1701 and FA 4500 or permission of instructor

PHILOSOPHY AND ESTHETICS

FA 4800 Meaning and Making in the Visual Arts (3)
Concepts of art production, aesthetics, creativity and the various social, economic and cultural relationships between art, artist, and society are examined through reading, research, writing and discussion. (E)
Prerequisites: AH 1700, AH 1701, Completion of Foundation Course sequence Writing Emphasis Course.

ART EDUCATION

FA 2900 Field Experiences in Multicultural Art Education Settings (3)
An observational and analytical study of teaching and learning about art in multi-cultural urban and suburban education settings; includes visits to various education settings. Required for Fine Arts Teacher Certification. GPA of 2.5 (Kean plus transfer credits) required. (E)

FA 2950 Creative Concepts in Arts and Crafts (3)
Studio course in arts and crafts focusing on the contributions of various cultures. Emphasis on understanding the creative process and life-long development in art. Materials and techniques will include those suitable for expression by children and adults. (E)
General Education Option
General Education requirement for art education majors

FA 3900 Art Education I: The Child (3)
Elementary art education including analytical study of the art making process, applications to children, development of lesson plans, teaching procedures and studio processes. Students are required to spend one day per week in the field preparing to teach K-6. Fall semester/Junior year. Writing intensive course. Required for Fine Arts Teacher Certification. (FA)
Prerequisite: Junior standing and permission of instructor

FA 3901 Art Education II: The Adolescent (3)
Secondary Art Education teaching methodology including observation of teaching procedures, working with small groups, evaluation of programs, discussions, demonstrations and readings. Students are required to spend one day per week in the field preparing to teach 6-12. Spring semester/Junior year. Writing intensive course. Required for Fine Arts Teacher Certification. (SP)
Prerequisite: Junior standing and permission of instructor

FA 3902 Art Education Field Experience I: Elementary (1)
Supervised field experience. Emphasis is on curriculum content and basic teaching strategies. Students spend one full day per week per semester in a selected art education setting, K-6. Fall semester/Junior year. Required for BA or MA in Fine Arts Teacher Certification. Minimum GPA of 3.00 required. Qualifying score in Praxis I required of undergraduate students. (FA)
Permission of instructor

FA 3903 Art Education Field Experience II: Secondary (1)
Supervised field experience. Emphasis is on curriculum content and basic teaching strategies. Students spend one full day per week per semester in a selected art education setting, 6-12. Spring semester/Junior year. Minimum GPA of 3.0 required. Required for BA or MA in Fine Arts Teacher Certification. (SP)
Permission of instructor

FA 3910 Art in Education (3)
natural modes of expression, selection of media to develop this expression, and finding ways of teaching in the elementary school which will increase aesthetic awareness, develop skills, enrich experience, and invite expression. Not intended for art education teacher certification majors or fine arts majors. Intended for early childhood (P-3) education and elementary education (K-6) majors who hold art as their second liberal arts major. (FO)
Prerequisite: Junior standing or permission of instructor

FA 3920 Art in Early Childhood Education (3)
Content similar to that of Fine Arts 3910 but dealing with children of the nursery school age through the third grade. Not intended for art education teacher certification majors or fine arts majors. Intended for early childhood (P-3) education and elementary (K-6) majors who hold art as their second liberal arts major. (E)
Prerequisite: Junior standing or permission of instructor

FA 4950 Problems in Art Education (3)
Principles and practices in art education studied through individual research and group critique. (FO)
Prerequisite: FA 3902

FA 4990 Student Teaching in Fine Arts (10)
Students will teach in two different educational settings under the direction of a college art supervisor and cooperating art teachers. Includes work with normal, gifted and talented, mainstreamed, special education, and ethnically diverse students. Includes three on-campus seminars. (E)
Required for Fine Arts Teacher Certification.
Prerequisites: FA 3900, FA 3901, FA 3902, FA 3903, EDUC 3000, EDUC 3400 or EDUC 3401, EDUC 4000, completion of 95 semester hours. (For graduate students: FA 5015, FA 5016, FA 3902, FA 3903, Senior or Graduate status)

FA 4991 Professional Internship in Art Education (9)
Student will teach in two consecutive school settings which serve children and adolescents, respectively. Student will perform under the direction of a university art supervisor and cooperating art teachers. Student will complete five full days per week for an entire semester. Requires three on-campus seminars. (E)
Required for Fine Arts Teacher Certification.
Prerequisites: FA 3900, FA3901, FA3902, FA3903, ED3000, ED3400 or 3401, completion of 95 semester hours
Co-requisite: EDUC4000 (applies to undergraduate and post-baccalaureate students only)

INTERDISCIPLINARY COURSES

The following are found under Interdisciplinary courses. (See Index.)

ID 3700	Survival of Classical Mythology in Art	(3)
ID 4051	Art for the Exceptional Child	(3)
ID 4545	Marketing Communications Workshop	(3)
ID 4850	Interrelating the Arts	(3)

Conservatory of Music

PA 123; (908) 737-4331

Kean University is an accredited institutional member of the National Association of Schools of Music. (See the Kean Conservatory of Music Handbook for details.) The Conservatory of Music offers three undergraduate courses of study, a B.A. in Music, a B.A. in Music Education and a B.M. in Performance with an Emphasis in Pedagogy. Two Post-Baccalaureate Programs are also available, the Certification Program and the Second Major Program; information about these programs are found in the Conservatory of Music Handbook. Students may also pursue a music minor.

ACCEPTANCE TO THE CONSERVATORY

To be accepted as a music major, minor or concentration, students must complete a satisfactory audition on an instrument or voice, and must take placement tests in music theory, history, and piano. Auditions must be scheduled prior to registration of the students' first semester. Information regarding audition requirements is in the Conservatory of Music Handbook. Please call or email the Conservatory to schedule an audition: music@kean.edu, 908-737-4330.

MAJOR AND MINOR ENSEMBLES

Music majors and minors are required to participate in a primary ensemble determined by their principal area of performance as follows: MUS 3800 Concert Choir for students with a performance concentration in voice, piano, or guitar, MUS 3850 Orchestra for students with a concentration in strings, and MUS 3868 Wind Ensemble for students with a concentration in brass, woodwind, and percussion. A number of secondary ensembles (including chamber music, chamber winds, jazz ensemble, percussion ensemble, guitar ensemble and specific instrument ensembles) may be chosen with advisement and approval of the ensemble director.

ENSEMBLE REQUIREMENTS

Full-time music majors enrolled in private lessons must take two ensembles, the major ensemble determined by the student's performance area (MUS 3800, 3850, or 3868) and a secondary ensemble selected through advisement from Conservatory list of ensembles with advisement. Part-time music majors enrolled in private lessons must take the primary ensemble based on their principal instrument or as advised. Music minors taking private studio lessons must enroll in the major ensemble determined by their performance area or as advised. Students not meeting ensemble requirements may be dropped from private studio lessons.

OTHER POLICIES

All music majors and minors enrolled in private lessons are required to perform in at least one student recital each semester, attend all Conservatory-wide sessions, and take a jury (performance examination) at the end of the semester. In addition, music majors must adhere to the policies listed in the Conservatory of Music Handbook.

B.A. IN MUSIC EDUCATION

MUSIC EDUCATION CERTIFICATION OPTION

The B.A. Degree in Music Education is a rigorous professional program that prepares students for careers as public school music teachers. The program seeks to provide students with as thorough a course of study as possible in general education, professional education, and musical preparation. Studies also develop musicianship that leads to an intellectual grasp of the art of music and the ability to perform in a specific medium as well as in ensembles. In order to attain "fully admitted" status, the student must meet the minimum GPA, minimum grade, and other requirements for education majors. Students must successfully pass the Praxis Examination (Music: Content Knowledge, 0113) Students are required to achieve a 3.0 cumulative GPA or better (Kean credits plus all transfer credit) and have completed 60 hours of credit in order to register for MUS 3310, MUS 3311, MUS 3320, MUS 3321, EDUC 3000, EDUC 3401, EMSE 3903, MUS 4301, and MUS 4000.

GENERAL EDUCATION 44-45

FOUNDATION REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition² 3

MATH 1000 Algebra for College Students^{2,7} 3

COMM 1402 Speech Communication² 3

GE 2025 Research and Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 9

ENG 2403 World Literature³ 3

MUS 2201 Music History 1 3

MUS 2221 Music in World Culture 2

MUS 2881 Elements of Jazz 1

Social Sciences 9

HIST 1062 Worlds of History³ 3

PSYCH 1000 General Psych 3

SOC. 1000 Intro. To Soc. 3

OR

ANTH 1800 Cultural Anthropology 3

Science and Mathematics 10-11

MATH 1010 Foundations (Recommended) 3

Lab Science 4

Astronomy; Biology; Chemistry; Earth

Science; Geology; Meteorology; Physics

Additional Science Course: Interdisciplinary

(ID) or one different science course from

above (3 or 4 credits) 3

Health and Physical Education 3

ID 1225 Issues Contemp. Health 3

ADDITIONAL REQUIRED COURSES 17

Psy 2100 Child Psych. 3

OR

PSY	2110	Psych. of Adol.	3
ID	2955	Disabled Persons in Am. Soc.	3
MUS	3138	Computer Music Notation	2
MUS	1551	Class Strings	1
MUS	1561	Class Woodwinds I	1
MUS	1562	Class Woodwinds II	1
MUS	1570	Class Brass	1
MUS	1590	Class Percussion	1
MUS	3120	Elementary Conducting (for all music education majors)	2
MUS	3121	Choral Conducting ⁴ (For vocal, piano, and guitar students)	2
OR			
MUS	3122	Instrumental Conducting ⁴ (For instrumental students)	2

ACADEMIC MAJOR 53

REQUIRED FOUNDATION CORE⁴ 44

MUS	1001	Music Foundations	3
MUS	1101	Music Theory I	2
MUS	2102	Music Theory II	2
MUS	3103	Music Theory III	2
MUS	4104	Music Theory IV	2
MUS	1111	Sight Singing & Ear Training I	1.5
MUS	2112	Sight Singing & Ear Training II	1.5
MUS	3113	Sight Singing & Ear Training III	1.5
MUS	4114	Sight Singing & Ear Training IV	1.5
MUS	3111	Form and Analysis	2
MUS	3131	Orchestration	2
MUS	36-	Private Studio Lessons (1x7)	7
MUS	38-	Primary Music Ensembles (1x7)	7
MUS	28- or 38-	Secondary Music Ensembles (1x6)	6

G.E. AND MAJOR CAPSTONE 3

MUS 4105 Music History II⁴ 3

Select one of the following for Piano, Voice, or Instrument concentration: 9

1. Piano

MUS	3710	Piano Rep (.5x6)	3
MUS	2710	Accompanying (1x5)	5
MUS	1501	Class Voice I	.5
MUS	1502	Class Voice II	.5

2. Wind, Percussion, & Strings

MUS	1501	Class Voice I	.5
MUS	1502	Class Voice II	.5
MUS	1511	Class Piano I	1.5
MUS	1512	Class Piano II	1.5
MUS	1513	Class Piano III	1.5
MUS	1514	Class Piano IV	1.5
MUS	37-	Instrumental Rep or Guitar Rep (.5x4)	2

3. Voice

MUS	1511	Class Piano I	1.5
MUS	1512	Class Piano II	1.5

MUS	1513	Class Piano III	1.5
MUS	1514	Class Piano IV	1.5
MUS	3700	Voice Rep (.5x6)	3
PROFESSIONAL SEQUENCE⁵			32
MUS	2900	Principles and Foundations of Music Education	3
MUS	3310	Elementary School Mus.	3
MUS	3311	Elementary Field Exp.	1
MUS	3320	Secondary School Music	3
MUS	3321	Secondary Field Exp.	1
MUS	3341	Instrumental Music Program	2
EDUC	3000	Curr. Instruct. Eval. & the Learner	3
EDUC	3401	Lang. Arts/Reading in K-12 Subj. Area Teaching	3
EMSE	3903	English Language Learners in the Am. School	1
MUS	4000	Music Teacher in the Classroom (final semester) ⁶	3
MUS	4301	Professional Internship/Student Teaching (final semester) ⁶	9

TOTAL 146-147

Footnotes:

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

² A grade of B- or better is required

³ Required course

⁴ A maximum of two C's in all academic major courses is Permissible. All other grades in academic major courses must be a B- or higher

⁵ A grade of B- or better is required for all professional education courses

⁶ MUS 4000 serves as the capstone course for the professional education major.

⁷ Student must graduate with a 3.0 GPA

ADDITIONAL REQUIREMENTS COMMENTS

Students must first pass an audition in order to pursue music major at Kean University
Students are required to pass piano, voice and secondary instrument proficiency examinations, Praxis II Music (Content Knowledge) and senior recital in the semester prior to student teaching. All requirements for the degree must be completed before enrolling in MUS 4301 Student Teaching, except for MUS 4000.
Students may be required, as deemed necessary by department faculty, to complete additional semesters of repertory, lessons, and ensembles, for the purposes of remediation.

B.A. IN MUSIC

The Bachelor of Arts in Music degree is intended for undergraduates who wish to major in music as a part of a liberal arts education, irrespective of specific career aspirations. This program provides the student with a broad coverage of music with a concentration in performance. Studies develop musicianship that leads to an intellectual grasp of the art of music and the ability to perform in a specific medium, and in ensembles. It serves individuals who seek a concentrated study in instrument or voice, in a broad program of general education rather than in one intense specialization, and is also the curriculum for students pursuing a double major.

B.A. IN MUSIC

GENERAL EDUCATION MIN. 45-47

FOUNDATIONS REQUIREMENTS 13

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030	Composition ³	3
MATH	1000	Algebra for College Students	3
COMM	1402	Speech Communication	3
GE	2025	Research and Technology	3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities			9
ENG	2403	World Literature ²	3
MUS	2201	Music History I ³	3
Select one from the following 5 areas:			
Fine arts or art history			3
Philosophy or religion			3
Foreign Language (Must take I & II for credit)			3
Theater			3
Interdisciplinary			3
Social Sciences			9
HIST	1062	Worlds of History ²	3

Select two from the following 5 areas:

Psychology			3
Economics or Geography			3
Political Science			3
Sociology or Anthropology			3
Interdisciplinary			3
Science and Mathematics			10-11

MATH	1010	Foundations of Math	
or CPS 1031, 1032, or 1231			3

Lab Science			4
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Select from: Astronomy; Biology; Chemistry; Earth Science; Geology; Meteorology; Physics
Additional Science Course:

ID 1400 Interdisciplinary or one different science course from above (3 or 4 credits) 3-4

Health/Physical Education			2-3
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ID	1225	Issues in Contemporary Health	3
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OR

ID	1010	Leisure & Recreation in Multicultural Society	3
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OR

TWO one-credit P.E.D. courses			2
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ADDITIONAL REQUIRED COURSES

MUS	2221	Music in World Culture	2
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ACADEMIC MAJOR 35

REQUIRED FOUNDATION CORE³ 35

MUS	1001	Music Foundations	3
MUS	1101	Music Theory I	2
MUS	2102	Music Theory II	2
MUS	3103	Music Theory III	2
MUS	4104	Music Theory IV	2
MUS	1111	Sight Singing & Ear Training I	1.5
MUS	2112	Sight Singing & Ear Training II	1.5
MUS	3113	Sight Singing & Ear Training III	1.5
MUS	4114	Sight Singing & Ear Training IV	1.5
MUS	3111	Form & Analysis	2
MUS	36-	Private Studio Lessons (1x4)	4

MUS 4290 Recital (taken with MUS 36-)

MUS	38-	Major Music Ensemble (1x4)	4
MUS	28- or 38-	Minor Music Ensemble (1x2)	2

G.E. AND MAJOR CAPSTONE 3

MUS	4105	Music History II ³	3
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For voice, wind, percussion, or string concentration:

MUS	1511	Class Piano I	1.5
MUS	1512	Class Piano II	1.5

MUSIC ELECTIVES 15-17

(COURSES MAY INCLUDE: LESSONS, ENSEMBLES, REPERTORY, MUSIC TECHNOLOGY)

FREE ELECTIVES 27

(50% must be taken at the 3000-4000 level)

TOTAL 124⁴

Footnotes:

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

² Required course

³ C is a passing grade for all music major courses, ENG 1030, and capstone course.

⁴ Students need a total of 124 credits to graduate
Comments:

Please note that all students must complete at

least the minimum for each section. The total of their credits, however, must equal at least 124 semester hours.

Students must first pass an audition in order to pursue a music major at Kean University.

Students may be required, as deemed necessary by department faculty, to complete additional semesters of repertory, lessons, and ensembles, for the purposes of remediation.

B.M. IN MUSIC PERFORMANCE WITH AN EMPHASIS IN PEDAGOGY

The Bachelor of Music Degree in Performance with an Emphasis in Pedagogy is a rigorous professional program that prepares students for careers in performance and private studio music teaching. The program seeks to provide students with a course of study that is as thorough as possible in music performance and musicianship, as well as a strong foundation in private studio pedagogy. Students will be prepared to perform at a high level of competence and to teach in the area of their primary instrument. This program is not currently accepting new students.

GENERAL EDUCATION: 35

FOUNDATION REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition 3

MATH 1000 Algebra for College Students 3

COMM 1402 Speech Communication 3

GE 2025 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS:

Humanities: 6

ENG 2403 World Literature² 3

Select one the following:

Fine Arts/Art History 3

Philosophy or Religion 3

Foreign Languages³ 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences: 6
(from different areas)

HIST 1062 Worlds of History² 3

Select one of the following:

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science and Mathematics 7

MATH 1010 Foundations of Math or
CPS 1031; 1032; 1231 3

Lab Science 4

Astronomy; Biology; Chemistry; Earth
Science; Geology; Meteorology; Physics;
Interdisciplinary

G.E. AND MAJOR CAPSTONE: 3

MUS 4105 Music History II 3

ADDITIONAL REQUIRED COURSES: 0

ACADEMIC MAJOR⁴ 93

REQUIRED FOUNDATION CORE 63

MUS 1101 Music Theory I 2

MUS 2102 Music Theory II 2

MUS 3103 Music Theory III 2

MUS 4104 Music Theory IV 2

MUS 1111 Sight Singing & Ear
Training I 1.5

MUS 2112 Sight Singing & Ear
Training II 1.5

MUS 3113 Sight Singing & Ear
Training III 1.5

MUS 4114 Sight Singing & Ear
Training IV 1.5

MUS 2201 Music History I 3

MUS 3111 Form & Analysis 2

MUS 3120 Elementary Conducting 2

MUS 30- Private Studio Lessons
(3x8) 24

MUS 38- Major Music Ensembles
(1x8) 8

MUS 28- or 38- Secondary Ensembles
(1x6) 6

MUS 2221 Music in World Culture 2

MUS 3138 Computer Music Notation 2

Select one of the following tracks:

1. Piano Performance Track 18

MUS 3710 Piano Repertory (.5x6) 3

MUS 2710 Accompanying (1x6) 6

Music Electives 9

2. Instrumental Performance Track 18

MUS 1511 Class Piano I 1.5

MUS 1512 Class Piano II 1.5

MUS 1513 Class Piano III 1.5

MUS 1514 Class Piano IV 1.5

MUS 37- Instrumental or Guitar
Repertory (.5x6) 3

MUS 28- or 38- Additional Secondary
Ensembles 2

Music Electives 7

3. Vocal Performance Track 18

MUS 1511 Class Piano I 1.5

MUS 1512 Class Piano II 1.5

MUS 1513 Class Piano III 1.5

MUS 1514 Class Piano IV 1.5

MUS 2001 English Diction 1

MUS 2002 Italian Diction 1

MUS 2003 German Diction 1

MUS 2004 French Diction 1

MUS 2005 Song Literature I-German 1

MUS 2006 Song Literature II-French 1

MUS 3700 Voice Repertory (.5x6) 3

Additional Foreign Language 3

Music Pedagogy Studies 12

(Select the appropriate pair of pedagogy
courses I and II, plus Music Pedagogy
Practicum I & II)

MUS 2312 Woodwinds Pedagogy I 3

MUS 3312 Woodwinds Pedagogy II 3

MUS 2412 Brass Pedagogy I 3

MUS 3412 Brass Pedagogy II 3

MUS 2512 Percussion Pedagogy I 3

MUS 3512 Percussion Pedagogy II 3

MUS 2612 Strings Pedagogy I 3

MUS 3612 Strings Pedagogy II 3

MUS 2712 Piano Pedagogy I 3

MUS 3712 Piano Pedagogy II 3

MUS 2812 Guitar Pedagogy I 3

MUS 3812 Guitar Pedagogy II 3

MUS 2912 Vocal Pedagogy I 3

MUS 3912 Vocal Pedagogy II 3

MUS 4401 Music Pedagogy Practicum I 3

MUS 4402 Music Pedagogy Practicum II 3

TOTAL: 128

Footnotes:

¹ University Requirement for Graduation for all
undergraduate students that must be satisfied in
one of two ways: Complete GE 1000 (all fresh-
men and transfers entering with 0-29 credits)
OR GE 3000 (transfers entering with 30 credits
or more).

² Required course

³ Required for Vocal Performance Track

⁴ A minimum GPA of 2.5 must be maintained.

⁴ A minimum of B- is required in all perform-
ance, ensemble, and pedagogy courses

⁴ Students must pass an audition to be admitted
to the B.Mus. Degree in Performance with an
Emphasis in Pedagogy

⁴ Students must follow all policies and proce-
dures outlined in the 2012-2013 Conservatory of
Music Handbook

Comments:

Students must first pass an audition in order to
pursue a music major at Kean University.

Students may be required, as deemed necessary
by department faculty, to complete additional
semesters of repertory, lessons, and ensembles,
for the purposes of remediation.

A maximum of two C's in all major academic
work is permitted.

MUSIC MINOR

REQUIRED COURSES 11.5

MUS 1001 Music Foundations 3

MUS 1101 Music Theory I 2

MUS 1111 Sight Singing and
Ear Training I 1.5

MUS 4105 Music History II 3

MUS 36XX Private lessons 2
(2 semesters required)

ELECTIVES 6.5

Courses may include:

MUS 1517 Elementary Piano I 3

MUS	2221	Music in World Culture	2
MUS	36XX	Private lessons (Additional semesters)	1
MUS	37XX	Repertory class (Rep class should correspond with your area of study)	.5

Performing Groups may include:

MUS	3860	Band	1
MUS	3850	Orchestra	1
MUS	3800	Choir	1
MUS	2810	Chorale	1
MUS	2879	Jazz Ensemble	1
MUS	2890	Percussion Ensemble	1
MUS	3750	Chamber Music	1

TOTAL 18

MUSIC CONCENTRATION REQUIRED

MUS	1001	Music Foundations	3
MUS	1101	Music Theory I	2
MUS	1111	Sight Singing and Ear Training I	1.5
MUS	2511	Class Piano I	1.5
MUS	3203	Music History I	3
MUS	4105	Music History II	3
MUS	1501	Class Voice I	0.5
MUS	XXXX	Music for the Elementary Classroom Teacher	1
MUS	36XX	Lessons (At least 4 semesters)	1
MUS	37XX	Repertory (At least 2 semesters)	.5
MUS	38XX	Ensembles	1/.5

Ensembles:

Major ensembles:

MUS	3860	Band	1
MUS	3850	Orchestra	1
MUS	3800	Choir	1

Minor Ensembles

MUS	2810	Chorale	1
MUS	2879	Jazz Ensemble	1
MUS	2890	Percussion Ensemble	1
MUS	3750	Chamber Music	1

ELECTIVES

Courses may include:

MUS	1517	Elementary Piano I	3
MUS	2221	Music In World Culture	3
MUS	1502	Class Voice II	0.5
MUS	36XX	Private lessons	1
MUS	37XX	Repertory class	0.5

TOTAL 30

MUSIC COURSES

GENERAL EDUCATION

MUS 1000 Music Survey (3)
Intended to develop a more profound understanding and appreciation of art music. Students develop the ability to think analytically about music, to evaluate it, and to respond to great works of artistic expression by composers throughout music history. (E)
Prerequisite: None

MUS 2220/1 Music in World Culture (3/2)
An introduction to music of world cultures, including both sound and socio-cultural dimensions of music. Case studies of major world musical traditions including music from Africa, Asia, Eastern Europe, North and South America. Meets the Africana Studies requirement. (SP)
Prerequisite: None; MUS 2221 for Music Major

MUS 2201 Music History I (3)
Development of music in ancient and non-Western cultures leading to the art music of Western civilization from the beginning of international Christianity through 1750. Significant genres, stylistic trends, musical innovations, and relevant technical matters. (FA)
Prerequisite: MUS 2221

MUS 4105 Music History II (3)
Historical development of art music from the Classical Era to modern times (c.1750 to 1950). A Writing Emphasis course. (SP)
Prerequisite: MUS 2201 or consent of instructor. Available as a Jewish Studies Collateral elective with instructor's consent.

MUSICAL SKILLS FOR NON-MAJORS

MUS 1050 Music Fundamentals (3)
Introduction to rudiments of music and notation. Developing an understanding of the music language and facility in music reading and aural perception, through class and individual vocal and instrumental practice and written work. Requirement for early childhood and elementary education majors. (E)
Prerequisite: None

MUS 1517 Elementary Piano (3)
For beginning piano students who are non-music majors. Students will develop general keyboard facility through music reading, harmonizing well-known melodies, and the performance of easy classics. (E)
Prerequisite: None

MUS 3300 Principles of the Alexander Technique (3)
Using the principles of the Alexander Technique, this course will give students the skills to recognize and change potentially harmful movement patterns. These changes can result in increased coordination, flexibility, facility, and career longevity. (SP)
Prerequisite: Permission of the instructor

CORE MUSIC REQUIREMENTS

MUS 1001 Foundations of Music (3)
A study of the rudiments of music covering music notation of pitch, rhythm, dynamics and articulation. Emphasis will be placed on scales, keys and intervals as well as an introduction to triads and seventh chords including inversion, chord symbols and figured bass. Elementary keyboard skills will be covered as well as basic techniques of sight singing and an introduction to musical style periods. (FA)
Prerequisite: Music Major or Minor, or consent of instructor.

MUS 1101 Music Theory I (2)
Introduction to the materials of tonal music. Tertian harmony and voice-leading principles including primary functions and harmonic cadences. Non-chord tones and aspects of diatonic melody. (SP)
Prerequisite: MUS 1001, or consent of instructor.

MUS 1111 Sight-Singing and Ear-Training I (1.5)
Emphasis on the development of aural skills with diatonic harmony: melodic, harmonic, and rhythmic dictation, tertian chord recognition, and intensive sight-singing activities using solmization. (SP)
Prerequisite: MUS 1001; Corequisite: MUS 1101 or consent of instructor.

MUS 2102 Music Theory II (2)
A continuation of MUS1101 including an introduction to secondary functions and modulation. Rudiments of form and melodic analysis. (FA)
Prerequisite: MUS 1101 or consent of instructor.

MUS 2112 Sight Singing and Ear Training II (1.5)
Continuation of MUS 1111. (FA)
Prerequisite: MUS 1111 or consent of instructor.

MUS 3103 Music Theory III (2)
A continuation of MUS 2102 covering the musical materials found in the repertoire of the Eighteenth and early-Nineteenth Century. Emphasis on elements of chromaticism and higher-level concepts in tonality including an introduction to larger-scale linear principles. (SP)
Prerequisite: MUS 2102 or consent of instructor.

MUS 3113 Sight Singing and Ear Training III (1.5)
Emphasis on developing aural skills with chromatic harmony: melodic and harmonic dictation, intensive sight-singing activities and advanced rhythmic materials. (SP)
Prerequisite: MUS 2112 or consent of the instructor.

MUS 4104 Music Theory IV (2)
A continuation of MUS 3103, covering the musical materials found in the repertoire of the nineteenth and early-twentieth century. Emphasis on expanded chromaticism, extended tonality and the emergence of non-tonal practice. (FA)
Prerequisite: MUS 3103 or consent of the instructor.

MUS 4114 Sight Singing and Ear Training IV (1.5)
Continuation of MUS 3113 with an introduction to twentieth century materials. (FA)
Prerequisite: 3113 or consent of instructor.

MUSICIANSHIP

MUS 2710 Accompanying (1)
Study and practice of piano accompanying for vocal and instrumental works, including sight-reading and transposition. (E)
Prerequisite: consent of instructor.

MUS 2881 Elements of Jazz (1)
This course will provide an introduction to jazz theory and jazz improvisation as well as an overview of the history and development of jazz. (SO)
Prerequisite: MUS 4105

MUS 3111 Form and Analysis (2)
Tonal and structural analysis of the most common forms used in 18th and 19th century Western Art Music. (SP)
Prerequisite: MUS 4104 or consent of instructor.

MUS 3121 Choral Conducting (2)
This course is designed to provide the student with score preparation, conducting skills and rehearsal techniques used in choral rehearsal. Students are also to participate in a co-requisite choral conducting lab.
Prerequisites: MUS 3120 or consent of instructor.

MUS 3122 Instrumental Conducting (2)
This course is designed to provide the student with score preparation, conducting skills and rehearsal techniques used in band and orchestra rehearsals. Students are also to participate in a co-requisite instrumental conducting lab.
Prerequisites: MUS 3120 or consent of instructor.

MUS 3131 Orchestration I (2)
Instrumental ranges and playing characteristics, principles of scoring and arranging, study of scores and appropriate orchestral literature, scoring for various instrumental ensembles. Required in music education curriculum. (FA)
Prerequisite: MUS 3103 or consent of instructor.

MUS 3135 Introduction to Electronic Music (2)
An introduction to electronic music, including its history, compositional techniques employed, the electronic synthesis of sound, music synthesizers, and the computer.
Prerequisite: MUS 1050 or consent of the instructor.

MUS 3137 Computer Applications for Music (2)
Survey of music software applications including theory and keyboard pedagogy, MIDI sequencing, computer-based synthesis, digital audio recording/editing and music notation. (SP)
Prerequisite: MUS 1050 or consent of instructor.

MUS 3138 Music Notation on Computers (2)
Intensive study of music notational conventions, document processing, and desktop publishing featuring notational software applications. (FA)
Prerequisite: MUS 1050 or consent of instructor.

MUS 3341 Instrumental Music Program (1)
This course will address both the teaching and administrative responsibilities associated with the school instrumental music program. A sample of topics to be explored include: creating a beginner instrumental music program, a review of proper pedagogy for the developing instrumental music student, student motivation and discipline, and preparing a school budget. (FA)
Prerequisite: Music Education major or consent of the instructor.

MUS 3120 Elementary Conducting (2)
This course will introduce students to the art and craft of conducting. Topics to be covered include: beat patterns, dealing with fermata, cueing, and basoc score preparation. (FA)
Prerequisites: Music major

MUSIC EDUCATION

MUS 2900 Foundations and Principles of Music Education (3)
An observational and analytical study of K-12 music education programs in multi-cultural urban and suburban educational settings. Approximately one-third of the course will involve a supervised field-based experience. Required of all students in music education before admission to the program. (SP)
Prerequisite: Sophomore music education level and permission of instructor.

MUS 3310 Elementary School Music (3)
Music activities and materials, classroom music procedure and beginning choral techniques for the elementary school. Emphasis on activities and materials for gifted and talented students, ethnically diverse groups, mainstreaming and special education classes. (FA)
Prerequisites: MUS2900 and acceptance into the Music Education major or permission of instructor. Corequisite: MUS 3311, EDUC 3000.

MUS 3311 Elementary School Music Field Experience (1)
Students spend 1/2 day per week per semester in a selected elementary school music setting. Application of content learned in MUS 3310. Emphasis on curriculum content, basic teaching strategies and scheduling. On-site observation by college supervisors. (FA)
Prerequisite: MUS 2900 and acceptance into the Music Education major or permission of department. Corequisite: MUS 3310.

MUS 3320 Secondary School Music (3)
Course development, organization problems, music in world cultures, instrumental and choral groups, voice classification, musical theatre productions and music clubs. Study and evaluation of texts and materials. Emphasis on activities and materials for gifted and talented students, ethnically diverse groups, mainstreaming and special education classes. (SP)
Prerequisite: MUS3310 or consent of instructor. Corequisite: MUS 3321.

MUS 3321 Secondary School Music Field Experience (1)
Students spend 1/2 day per week per semester in a selected secondary school music setting. Application of content learned in MUS 3320. Emphasis on curriculum content, basic teaching strategies and scheduling. On-site observation by University supervisors. (SP)
Prerequisite: MUS 3310 or consent of instructor. Corequisite: MUS 3320.

MUS 4000 Music Teacher and The Classroom (3)
The students will develop classroom management and organizational techniques through their reflections and analysis of music classroom dynamics. Instructional design and assessment supporting educational theories, with consideration of school context and student characteristics will also be examined. (E)

MUS 4301 Professional Internship (9)
Students will teach for a 15-week period in both elementary and secondary school under the direction of a University supervisor and cooperating teacher. The experience will include work with normal students, gifted and talented students, special education classes, mainstreaming, ethnically diverse groups, and three on-campus evening seminars. (E)
Prerequisite: All requirements for the degree except for MUS 4000.

GROUP LESSONS

Required for music education majors, but open to others by instructor consent and space availability. (See B.A. in Music Education degree requirements for details.) These courses cover both performance skills and methodologies of teaching.

MUS 1501-1502 Class Voice I-IV (.5 + .5)
Fundamentals of singing, including physiology of the larynx, posture, breathing, resonance, song preparation, range expansion, introduction to the International Phonetic Alphabet, stage deportment, and methods of teaching voice. 1501 (SP); 1502 (FA)
Prerequisite: 1501 is prerequisite for 1502; Music Education major or consent of instructor.

MUS 1511, 1512, 1513, 1514 Class Piano I-IV (1.5 x 4)
A progressive sequence of four courses in class piano. These courses provide students with functional keyboard skills, including sight-reading, improvising accompaniments, reading choral parts, ensemble playing, transposition, and standard patriotic pieces. 1511 (SP); 1512 (FA); 1513 (SP); 1514 (FA)
Prerequisite: MUS 1001; Music Education major or consent of instructor.

MUS 1551 Class Strings (1)
Learning to play one or more stringed instruments and the method of teaching the stringed instruments. Overview of the literature and history of the stringed instruments. Primary emphasis on learning to play the violin and cello. (FA)
Prerequisite: Music Education major or consent of instructor.

MUS 1561 Class Woodwinds I (1)
The rudiments of playing the flute, clarinet, and saxophone will be stressed in conjunction with the teaching methods, materials, and repertoire associated with each. An overview of the history of the woodwind family will also be presented. (FA)

Prerequisite: Music Education major or consent of instructor.

MUS 1562 Class Woodwinds II (1)
The rudiments of playing the oboe and bassoon will be stressed in conjunction with the teaching methods, materials, and repertoire associated with each. An overview of the history of the woodwind family will also be presented. (SP)

Prerequisite: MUS 1561; Music Education major or consent of instructor

MUS 1570 Class Brass (1)
Learning to play one or more brass instruments and the methods of teaching the brass instruments. Overview of the literature and history of brass instruments. Primary emphasis on learning to play the trumpet and the trombone. (FA)

Prerequisite: Music Education major or consent of instructor.

MUS 1590 Class Percussion (1)
Learning to play the snare drum, tympani, mallet percussion instruments, and some of the smaller instruments used in the band. Methods of teaching and maintaining percussion instruments. (SP)

Prerequisite: Music Education major or consent of instructor.

PRIVATE STUDIO LESSONS

(available to students in good academic standing)

Weekly, private 50-minute lessons, generally reserved for music majors and minors. The goal of private studio instruction is to achieve significant progress each semester in technique, musicianship, sight-reading, and repertoire development. The student must show weekly evidence of a minimum of one to two hours of daily practice, and is required to perform in at least one department performance forum each semester plus a jury. Private studio lessons have a corequisite major ensemble. (E)

Prerequisite: music major or minor and permission of the instructor. May be repeated for credit.

MUS 3600 Voice (1)
Corequisite: MUS 3800

MUS 3610 Piano (1)
Corequisite: MUS 3800

MUS 3620 Organ (1)
Corequisite: MUS 3800

MUS 3630 Harp (1)
Corequisite: MUS 3800, 3850 or 3860

MUS 3640 Guitar (1)
Corequisite: MUS 3800

MUS 3650 Violin (1)
Corequisite: MUS 3850

MUS 3651 Viola (1)
Corequisite: MUS 3850

MUS 3652 Cello (1)
Corequisite: MUS 3850

MUS 3653 Double Bass (1)
Corequisite: MUS 3850

MUS 3660 Flute (1)
Corequisite: MUS 3860

MUS 3661 Oboe (1)
Corequisite: MUS 3860

MUS 3662 Clarinet (1)
Corequisite: MUS 3860

MUS 3663 Saxophone (1)
Corequisite: MUS 3860

MUS 3664 Bassoon (1)
Corequisite: MUS 3860

MUS 3670 Trumpet/Cornet (1)
Corequisite: MUS 3860

MUS 3671 French Horn (1)
Corequisite: MUS 3860

MUS 3672 Trombone/Baritone Horn (1)
Corequisite: MUS 3860

MUS 3673 Tuba (1)
Corequisite: MUS 3860

MUS 3680 Composition (1)
Corequisite: MUS 3800 OR 3860

MUS 3690 Percussion (1)
Corequisite: MUS 3860

Private Studio Lessons

Private instruction in your performance area with emphasis in performance of solo literature and related pedagogical materials. Course may be repeated.

Prerequisite: BM Performance Major

MUS 3001 (3)
Prerequisites: BM Flute Performance Major

MUS 3002 (3)
Prerequisites: BM Oboe/English Horn Performance

MUS 3003 (3)
Prerequisites: BM Bassoon Performance Major

MUS 3004 (3)
Prerequisites: BM Clarinet Performance Major

MUS 3005 (3)
Prerequisites: BM Saxophone Performance Major

MUS 3006 (3)
Prerequisites: BM Trumpet Performance Major

MUS 3007 (3)
Prerequisites: BM Horn Performance Major

MUS 3008 (3)
Prerequisites: BM Trombone Performance Major

MUS 3009 (3)
Prerequisites: BM Euphonium Performance Major

MUS 3010 (3)
Prerequisites: BM Tuba Performance Major

MUS 3011 (3)
Prerequisites: BM Percussion Performance Major

MUS 3012 (3)
Prerequisites: BM Violin Performance Major

MUS 3013 (3)
Prerequisites: BM Viola Performance Major

MUS 3014 (3)
Prerequisites: BM Violoncello Performance Major

MUS 3015 (3)
Prerequisites: BM Double Bass Performance Major

MUS 3016 (3)
Prerequisites: BM Piano Performance Major

MUS 3017 (3)
Prerequisites: BM Guitar Performance Major

REPERTORY

Weekly classes that provide an opportunity for students to perform the music being studied in their private lessons. Students will also become familiar with the solo literature and discuss issues of performance and program construction. *Corequisite: Private Studio Lessons. May be repeated for credit.*

MUS 3700 Voice Repertory (SP) (.5)

MUS 3710 Piano Repertory (FA) (.5)

MUS 3720 Guitar Repertory (SP) (.5)

MUS 3730 Instrumental Repertory* (.5)

**four sections: brass, strings, woodwinds, and percussion. brass (SP), strings (SP), woodwinds (FA), percussion (FA)*

ENSEMBLES

(available to students in good academic standing)

Study, rehearsal and performance of representative works. In addition to preparing performances and developing ensemble skills, emphasis is placed on strengthening sight-reading ability and intonation accuracy. May be repeated for credit; open to all students by audition. Attendance at rehearsals and performances is mandatory, including those occurring at other than designated class times. *Prerequisite: Audition or consent of instructor.*

MUS 2810 Chorale (1)

A small, select mixed ensemble, specializing in a cappella literature such as madrigals and madrigal dinner repertoire. Open to both music majors and students majoring in other disciplines. (E)

Prerequisite: Consent of instructor.

MUS 2879 Jazz Ensemble (1)

The study, rehearsal, and performance of standard jazz repertoire and other jazz and jazz/rock styles. Open to both music majors and students majoring in other disciplines. (E)

Prerequisite: Consent of instructor.

MUS 2890 Percussion Ensemble (1)

The study, rehearsal, and performance of standard percussion ensemble repertoire. Open to both music majors and students major in other disciplines. (E)

Prerequisite: Consent of instructor.

MUS 3750 Chamber Music (1)

The study, rehearsal, and performance of representative chamber music works from a variety of musical styles. Students learn to focus on the difference between solo and chamber music playing. Open to both music majors and students majoring in other disciplines. (E)

Prerequisite: Consent of instructor.

MUS 3800 Concert Choir (1)

The rehearsal and performance of major choral works with orchestra, a cappella pieces, and Non-Western choral music. Performances on and off campus. An annual choir tour is required. Open to both music majors and students majoring in other disciplines. (E)

Prerequisite: Consent of instructor.

MUS 3850 Orchestra (1)
The rehearsal and performance of works for orchestra. Students may receive credit for performance with the Livingston Symphony, or other ensembles approved by the instructor. Open to both music majors and students majoring in other disciplines. (E)
Prerequisite: Consent of instructor.

MUS 3860 Concert Band (1)
The rehearsal and performance of works for concert band. Emphasis on skill development and exposure to quality band literature. Open to both music majors and students majoring in other disciplines. (E)
Prerequisite: Consent of instructor.

MUS 3868 Symphonic Wind Ensemble (1)
The rehearsal and performance of works for concert band. Emphasis on skill development and exposure to quality band literature. Open to both music majors and students majoring in other disciplines. (E)
Prerequisite: Consent of instructor.

MUS 3845 Opera Workshop (1)
Participatory course enabling vocal students to prepare and perform scenes from operas. Emphasis on developing operatic stage techniques and musical skills involved in opera performance.
Prerequisite: Approval of private studio instructor

MUS 3865 Chamber Winds (1)
Significant chamber music for wind and percussion instruments will be student, rehearsed and performed in concert. Open to all students upon successful audition. (E)
Prerequisite: Consent of director.

INDEPENDENT STUDY

MUS 4901, 4902, 4903 Independent Study in Music (1, 2, 3)
The opportunity for students of advanced ability to pursue in a concentrated but informal manner a specific area of study in music not available through current course offerings. (E)
Prerequisite: Consent of department chairperson.

PERFORMANCE AND PEDAGOGY

MUS 2001 English Diction (1)
A detailed study of English diction as it is applied to American and English song repertoire. This course is designed to focus on a systematic study of phonetics as it applies to singing in English and will include mastering the International Phonetic Alphabet (IPA), its rules and applications. (FO)
Prerequisite: none

MUS 2002 Italian Diction (1)
A detailed study of Italian diction as it is applied to vocal repertoire. This course is designed to focus on a systematic study of phonetics as it applies to singing in Italian and will include utilizing the International Phonetic Alphabet (IPA), its rules and applications. (SE)
Prerequisite: MUS 2001

MUS 2003 German Diction (1)
A detailed study of German diction as it is applied to vocal repertoire. This course is designed to focus on a systematic study of phonetics as it applies to singing in German and will include utilizing the International Phonetic Alphabet (IPA), its rules and applications. (SO)
Prerequisite: MUS 2001

MUS 2004 French Diction (1)
A detailed study of French diction as it is applied to vocal repertoire. This course is designed to focus on a systematic study of phonetics as it applies to singing in French and will include utilizing the International Phonetic Alphabet (IPA), its rules and applications. (FE)
Prerequisite: MUS 2001

MUS 2005 Song Literature I – German (1)
This course will focus in-depth on developmentally appropriate German song repertoire for the undergraduate voice student and will introduce a broad range of the repertoire as material for both performance and teaching. The student will develop skills in performance practice and program building through the study of a wide range of composers and poets. (FO)
Prerequisite: MUS 2003

MUS 2006 Song Literature II – French (1)
This course will focus in-depth on developmentally appropriate French song repertoire for the undergraduate voice student and will introduce a broad range of the repertoire as material for both performance and teaching. The student will develop skills in performance practice and program building through the study of a wide range of composers and poets. (SO)
Prerequisite: MUS 2004

MUS 2312 Woodwind Pedagogy I (3)
A study of private woodwind instrument teaching including tone production, technique, articulations, maintenance, repair as well as student motivation. Principles of woodwind performance from beginner to intermediate levels are included. (FA)
Prerequisite: music performance major or consent of instructor.

MUS 3312 Woodwind Pedagogy II (3)
A study of private woodwind instrument teaching including tone production, technique, articulations, maintenance, repair, as well as student motivate. Principles of woodwind performance from intermediate to advanced levels are included. (SP)
Prerequisite: music performance major or consent of instructor.

MUS 2412 Brass Pedagogy I (3)
This course explores the development of brass instruments over the past five centuries and includes a detailed study of effective teaching and performing practices for brass instruments. Special emphasis will be given to the assessment of habits and abilities, possible liabilities and/or special needs of the beginner and advanced beginner-level student. (FA)
Prerequisite: music major with principal instrument of brass and permission of instructor.

MUS 3412 Brass Pedagogy II (3)
This course explores the development of brass instruments over the past five centuries and includes a detailed study of effective teaching and performing practices for brass instruments. Special emphasis will be given to the assessment of habits and abilities, possible liabilities and/or special needs of the intermediate and advanced-level student. (SP)
Prerequisite: music major with principal instrument of brass, completion of MUS 3412 and permission of instructor.

MUS 2512 Percussion Pedagogy I (3)
This course will provide the student with an in-depth study of percussion pedagogical concepts and selected literature as they apply to the beginner and advanced beginner-level percussion student. (FA)
Prerequisite: music major with principal instrument of percussion and permission of instructor.

MUS 3512 Percussion Pedagogy II (3)
This course will provide the student with an in-depth study of percussion pedagogical concepts and selected literature as they apply to the intermediate and advanced-level percussion student. (SP)
Prerequisite: music major with principal instrument of percussion, completion of MUS 2512 and permission of instructor.

MUS 2612 Strings Pedagogy I (3)
An in-depth study of the teaching techniques and literature related to the teaching of string instruments for beginning and intermediate level player. (FA)
Prerequisite: music major with principal instrument of strings or permission of instructor.

MUS 3612 Strings Pedagogy II (3)
An in-depth study of the teaching techniques and literature related to the teaching of string instruments for intermediate and advanced level player. (SP)
Prerequisite: music major with principal instrument of strings or permission of instructor.

MUS 2712 Piano Pedagogy I (3)
This course will provide the students with an in-depth study of piano pedagogical concepts as they apply to the beginner-level and advanced beginner-level piano student. (FA)
Prerequisite: music major with principal instrument of piano and permission of instructor.

MUS 3712 Piano Pedagogy II (3)
This course will provide the students with an in-depth study of piano pedagogical concepts as they apply to the intermediate-level and advanced-level piano student. (SP)
Prerequisite: music major with principal instrument of piano, permission of the instructor and completion of MUS 2712.

MUS 2812 Guitar Pedagogy I (3)
The rudiments of playing the classical guitar will be stressed in conjunction with associated teaching methods, materials and repertoire for beginner and advanced beginner-level students. (FA)
Prerequisite: music major with principal instrument of guitar and permission of instructor.

MUS 3812 Guitar Pedagogy II (3)
This course is a continuation of guitar pedagogy I (MUS 2812). The rudiments of playing the classical guitar will be stressed in conjunction with associated teaching methods, materials and repertoire for the intermediate and advanced-level students. An in-depth review of classical guitar ensemble literature will be reviewed. (SP)
Prerequisite: music major with principal instrument of guitar, permission of instructor and completion of MUS 2812.

MUS 2912 Voice Pedagogy I (3)

This course will focus on training voice teachers who will instruct children of elementary and middle school age. An examination of various teaching methods and important literature will be included. (FA)

Prerequisite: music major with principal instrument of voice and permission of instructor.

MUS 3912 Voice Pedagogy II (3)

A continuation of techniques discussed in Vocal Pedagogy I (MUS 2912). There will also be a thorough study of the structure of the singing voice, efficient vocal production and an examination of different schools of singing, i.e. Italian, French, German as well as challenges related to training specific voice types. (SP)

Prerequisite: music major with principal instrument of voice, permission of instructor and completion of MUS 2912.

MUS 4401 Pedagogy Practicum I (3)

The first of two semesters of guided practicum of music instruction for students of all ages and abilities of content learned in the two prerequisite pedagogy courses to teaching practice. (FA)

Prerequisite: two pedagogy courses related to the candidates' instrument/voice major at 2000 and 3000 levels.

MUS 4402 Pedagogy Practicum II (3)

The second of two semesters of guided practicum of music instruction for students of all ages and abilities in the private music school or studio setting. In addition to continuing work on teaching practice, curricular design, program administration and management will be examined. (SP)

Prerequisite: MUS 4101

MUS 30— Private Studio Lessons (1-3)

Private instruction in your performance area with emphasis in performance of solo literature and related pedagogical materials. Course may be repeated.

Prerequisite: BM Performance Major

Theatre Conservatory

VE 409; (908) 737-4420

Coordinator, Holly Logue

The Theatre program offers students the knowledge, skills, and critical perspectives necessary for building a strong foundation for a lifelong engagement with their art and their world.

Accredited by the National Association of Schools of Theatre, Kean University's Theatre program mirrors the university's mission to provide a core educational foundation based on the liberal arts. The Theatre program offers BA and BFA degree programs, constructed to make and teach theatre that celebrates the human condition and spirit. Our performance series provides quality, applied experiences that service the university and the surrounding community. During four years at Kean, students have the opportunity to explore and develop their potential as actors, educators, directors, stage managers, designers, technicians, administrators, and playwrights and to develop the skills to pursue work in professional theatre and graduate school, or apply skills to a variety of professions both inside and outside the theatre. To this end, all theatre majors pursue coursework not only in theatre but also in the social and natural sciences, literature, technology, communications, and other areas of human experience. The study of theatre at Kean is enhanced by a partnership with Premiere Stages, an AEA company in residence, and proximity to New York, allowing frequent guest artists.

In support of the above statements, we have developed specific student learning outcomes for the Theatre program, attainable via coursework, mentorship, and participation in the theatre production series:

SLO 1: Identify and articulate humanistic values and cultural diversity found in the study of theatre, represented by knowledge of the history, socio-cultural traditions, and literary richness. [KU1, KU2, KU4, GEK3, GEK4, GES3, GES4, GES5, GEV4]

SLO 2: Demonstrate oral, written, and graphic communication skills as appropriate to theatre [KU1, KU4, GEK1, GEK3, GEK4, GES1, GES3, GES4, GES5]

SLO 3: Exhibit analytical, critical, creative thinking/ability and supportive research techniques [KU1, KU4, GEK1, GEK3, GEK4, GES1, GES3, GES4, GES5]

SLO 4: Synthesize theatrical elements in class projects, production, and performance [KU1, KU2, KU3, KU4, GEK1, GEK4, GES1, GES2, GES3, GES4, GES5, GEV1, GEV2, GEV3, GEV4, GEV5]

SLO 5: Demonstrate competence in the major area of theatrical specialization by producing theatrical work [KU 1, 2, 3, 4, K4, GES1, GES2, GES3, SGE4, GES5, GEV1, GEV4, GEV5]

SLO 6: Articulate a coherent set of artistic/intellectual goals [KU 1, 2, 3, 4, K4, GES1, GES2, GES3, SGE4, GES5, GEV1, GEV4, GEV5]

Linked to the academic core of the Theatre

program is the applied production program of fully mounted theatre performances, which serve as an indispensable laboratory for both the core liberal studies and the intensive professional studies of our major curriculum.

The production program is based on five primary goals:

1. Create for theatre students a pre-professional laboratory, in which to test and experiment with the practical and theoretical artistic skills and precepts that emanate from the academic curriculum under the guidance of professional faculty and visiting artists.
2. Enhance the cultural life of the university community through the presentation of the best theatre possible – in particular, a season of theatre balanced between that which is not readily available in the commercial sphere with those productions that are likely to have box office appeal – to audiences of all ages, but serving, primarily, the adult theatergoer (i.e. students and the community).
3. Provide theatre majors, during the course of four-year rolling cycles, with as wide a range as possible of dramatic literature from various cultures and periods, including the presentation of new scripts, presented in a variety of theatrical modes.
4. Introduce students to the profession by co-producing work with the Kean's resident professional production group, Premiere Stages, providing students access to and interaction with AEA professionals.
5. Provide the appropriate production opportunities and facilities for the creative process.

The Theatre program also offers minors in Theatre and in Dance. The Dance Minor is designed to develop the skills of both the pre-professional and the beginner by providing a strong foundation in Modern, Jazz, and Ballet Techniques and Theory. Students can design their minor program to focus on the pursuit of a career in performance and/or education.

NOTE: An audition or portfolio presentation and an interview for admission to the Theatre program, as well as periodic assessment reviews are required of all Theatre majors. All theatre majors are required to participate in the Kean University Theatre Series productions.

BA DEGREE IN THEATRE 120

GENERAL EDUCATION REQUIREMENTS 43-45

FOUNDATIONS REQUIREMENTS 13³

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
MATH	1000, 1010, 1016, 1030	OR 1054	3
ENG	1030	College Composition	3
COMM	1402	Speech Communication as Critical Citizenship	3
GE	2025	Research and Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 30-32

<i>Humanities</i>			9
*THE	1000	Introduction to Theatre	3
*ENG	2403	World Literature	3
Select one from below:			
		Fine Arts or Art History	3
		Philosophy or Religion	3
		Foreign Languages ⁵	3
		Music	3
		Interdisciplinary	3
		<i>Social and Behavioral Sciences</i>	9
*HIST	1062	Worlds of History	3
Select two of the following from different areas:			
		PSY 1000 General Psychology	6
		Economics or Geography	
		Political Science	
		Sociology or Anthropology	
		Interdisciplinary	
		<i>Science & Mathematics</i>	10-11
		*MATH or CPS	
		(Options: Math 1010, 1016, 1030, 1054, or CPS 1032, 1231)	3
		(Select two from below; one must be a lab science)	7-8
		Biology, Chemistry or Physics	
		Astronomy, ES, Geology, or Meteorology	
		Interdisciplinary	
		<i>Health/Physical Education</i>	2-3
ID	1010	Leisure & Recreation in Multicultural Society	
OR			
ID	1225	Issues Contemporary Health	3
OR			
		Two one-credit P.E.D. courses	2
ADDITIONAL REQUIREMENTS			9
ID	2701	Plays: On Page and On Stage	3
ENG	3215	Shakespeare Survey	3
ENG		Literature for Theatre	
		(ENG 2210, 3316, 3320, 3514, 3515, 3550, 3555, 4405, 4421, 4425, 4430)	3
MAJOR REQUIREMENTS²			51
REQUIRED FOUNDATION			24
THE	1100	Acting I	3
THE	1300	Intro to Performance Design	3
THE	2300	Technical Theatre Production	3
THE	2301-6 or 4301-4	Theatre Lab+	3
+Each course is .5 credits; six semesters required.			
THE	3700	Script Analysis and Dramaturgy	3
THE	3710	World Theatre I	3
THE	3720	World Theatre II	3
THE	3415	Voice for the Performer	3

MAJOR ELECTIVES THEATRE² 24

Choose one course each from areas I, II, III, IV, V, VI, and VII	9
Area I (Performance)	3
THE 2140, 2150, 3150, 4110, 4150	
Area II (Theatre Design)	3
THE 3330, 3335, 3340, 3345,	
Area III (Technical Theatre)	3
THE 2365, 3350, 3355, 3320, 4300	
Area IV (Theatre in the Community)	3
THE 3200, 3240, 3250, 3820, 3830, 3840	
Area V (Administration)	3
THE 2450, 3460	
Area VI (Directing and Playwriting)	3
THE 3260, 3400, 4400	
Area VII (Voice and Movement)	3
THE 2110, 3120, 3160, 4110	
Choose one additional courses from any area of theatre electives	3

MAJOR/GE CAPSTONE² 3

THE 4900 Senior Seminar in Theatre

FREE ELECTIVES 15-17

Selected with advisement. At least 50% must be at 3000 level or above. 4 credits may be in theatre.

TOTAL 120

Notes: All those wishing to enter the BA program must successfully pass an audition/portfolio review and interview, and have a cumulative GPA of 2.5. Once the student is within the BA program, they must maintain a cumulative GPA of 2.5. Students whose GPA drops below 2.5 will be prohibited from participating in productions for the following semester.

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

² All Major courses require a grade of C or better.

³ See prerequisites and corequisites.

⁴ ENG 1030 requires a grade of C or better

⁵ Credit granted only upon completion of two semesters.

* Required Distribution Course

B.A. IN THEATRE 137**OPTION: SECONDARY EDUCATION CERTIFICATION**

Students choosing this option must make a formal application for admission to the Middle and Secondary Education Department. Prior to taking education courses, all prerequisites must be met.

GENERAL EDUCATION AND ADDITIONAL LIBERAL ARTS REQUIREMENTS 48-49**FOUNDATIONS REQUIREMENTS^{2,4} 13**

GE 1000 Transition to Kean ¹	1
OR	
GE 3000 Transfer Transitions ¹	1
ENG 1030 College Composition ⁴	3
MATH 1000, 1010, 1016, 1030, or 1054	3
COMM 1402 Speech Communication as Critical Citizenship ⁴	3
GE 2025 Research and Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

<i>Humanities</i>	9
THE 1000 Introduction to Theatre	3
*ENG 2403 World Literature	3
Fine Arts OR Art History	3
Social and Behavioral Sciences	9
*HIST 1062 Worlds of History	3
PSY 1000 General Psychology	3
SOC 1000 Introduction to Sociology	
OR	
ANTH 1800 Cultural Anthropology	3
<i>Science & Mathematics</i>	10-11
*MATH 10103	3
(Select two from below; one must be a lab science ³)	
Biology	3,4
Chemistry or Physics	3,4
Astr, ES, Geol, or Metr	3,4
Interdisciplinary	3,4
Health and Physical Education	4
PED 1101, 1103, 1107, 1151 (dance)	
AND	
ID 1225 Issues/Values of Contemporary Health	3

ADDITIONAL REQUIREMENTS 21

PSY 2100 Child Psychology	3
OR	
PSY 2110 Psychology of Adolescence	
ID 2955 Disabled Persons in Amer. Soc.	3
THE 3145 Voice for the Performer	3
ENG 3215 Shakespeare Survey	3
THE 3710 World Theatre I	3
THE 3720 World Theatre II	3
ENG Literature for Theatre	3
(ENG 2210, 3316, 3320, 3514, 3515, 3550, 3555, 4405, 4421, 4425, 4430, ID 2701)	

MAJOR/GE CAPSTONE 3

THE 4220 Topics in Theatre Education ²	3
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MAJOR REQUIREMENTS³ 41

THE 1100 Acting I	3
THE 2150 Period Acting Styles	3
THE 2300 Technical Theatre Production	3
One of the following:	3
ENG 3010 Playwriting	
OR	

THE 3260 Playwriting	
THE 3150 Contemporary Acting Techniques	3
THE 3200 Creative Drama	3
THE 3335 Scene Design	3
THE 3400 Directing I	3
THE 3700 Script Analysis and Dramaturgy	3
One of the following:	3
THE 3820 Children's Theatre on Tour	
OR	
THE 3830 Kean Players on Tour	
Two of the following:	6
THE 3240 Theatre for Young Audiences	
THE 3310 Costume Design	
THE 3345 Lighting Design	
THE 3350 Make-Up	
Two credits of the following:	
THE 2301-4 Theatre Lab	2
OR	
THE 4301-4 Theatre Lab	

PROFESSIONAL SEQUENCE 30**Sophomore Level**

EMSE 2801 Intro to Field Experience ²	3
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Junior Level

EDUC 3000 Curriculum, Evaluation & Learner ²	3
EMSE 3122 Computers in Education	3
THE 3220 Teaching Secondary School Theatre ²	3
EDUC 3401 Language Arts/Reading ²	3
EMSE 3801 Pre-Professional Experience ²	2
EMSE 3903 Teaching ELL (take w/3801) ²	1

Senior Level

EMSE 4801 Professional Internship ⁵	9
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CAPSTONE COURSE 3

EDUC 4000 Teacher and the Classroom	3
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¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

² See prerequisites and corequisites.

³ Major courses, including capstone, require a grade of C or better.

⁴ Eng 1030, MATH 1010 and Comm 1402, require a grade of B- or better.

⁵ Pre-requisite: passing score on appropriate Praxis II test(s).

*Required Distribution Course

Notes:

All those wishing to enter the BA Theatre Education program must successfully pass an audition/interview and have a cumulative GPA of 3.0. Once the student is within the BA program, they must maintain a cumulative GPA of 3.0. This pertains to all education degrees.

BFA IN THEATRE PERFORMANCE DEGREE 124

GENERAL EDUCATION REQUIREMENTS 32

FOUNDATIONS REQUIREMENTS^{2,4} 13

GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030	College Composition	3
MATH	1000, 1010, 1016, 1030	OR 1054	3
COMM	1402	Speech Communication as Critical Citizenship	3
GE	2025	Research and Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities	6
*ENG 2403 World Literature	3
Select one from the following:	3
Music	3
Art History or Fine Arts	3
Philosophy or Religion	3
Foreign Languages ⁵	
(Must take I & II for credit)	3
Interdisciplinary	3
Social and Behavioral Sciences	6
*HIST 1062 Worlds of History	3
Select one of the following:	3
PSY 1000 General Psychology	3
Economics or Geography	3
Political Science	3
Sociology or Anthropology	3
Interdisciplinary	3
Science & Mathematics	7
*MATH or CPS (Options:	
MATH 1010, 1016, 1030, 1054,	
CPS 1032, 1231)	3
(Select one lab science)	4
Biology, Chemistry or Physics	
Astronomy, Meteorology, or Geology	

ADDITIONAL REQUIREMENTS⁷ 22

ENG	3215	Shakespeare Survey	3
MUS	3600	Private Studio Voice	
		(Complete 6 semesters)	6
ID	2701	Plays: On Page and On Stage	3
Select two courses from the approved Theatre Literature list:			6
(ENG 2210, 3316, 3320, 3514, 3515, 3550, 3555, 4405, 4421, 4425, 4430)			
Select four cr. in Dance:			
PED or DANC			4

MAJOR REQUIREMENTS⁶ 64

THEATRE FOUNDATION⁶ 19

THE	1000	Introduction to Theatre	3
THE	1100	Acting I	3
THE	2300	Technical Theatre Production	3
THE	2301-6	Theatre Laboratory Lab 1 .5 Lab 2 .5	

THE	3700	Script Analysis and Dramaturgy	3
THE	3710	World Theatre I (WR)	3
THE	3720	World Theatre II (WR)	3

THEATRE PERFORMANCE REQUIREMENTS⁶ 30

THE	2110	Movement for the Actor	3
THE	2150	Period Styles of Acting	3
THE	3120	Advanced Movement	3
THE	2140	Improvisation	3
THE	3145	Voice for the Performer	3
THE	3150	Contemporary Acting Techniques	3
THE	3160	Speak the Speech	3
THE	3400	Directing I	3
THE	4100	Acting for the Camera	3
THE	4110	Stage Dialects	3

MAJOR/GE CAPSTONE⁶ 3

THE	4150	Acting as a Profession	
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MAJOR ELECTIVES⁶ 12

Select 9 credits from the Theatre electives list	9
Select one of the following:	3
THE 3350 Stage Makeup or	
THE 3330 Western Costume History	

FREE ELECTIVES 6

TOTAL 124

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

² See prerequisites and co-requisites.

⁴ Eng 1030 must be completed with a grade of C or better.

⁵ Credit granted only upon completion of two semesters.

⁶ A maximum of two C's in all academic major courses. All other grades in academic major courses must be a B- or better.

⁷ Additional requirements must be completed with a grade of C or better.

*Required Distribution Course

Additional BFA Theatre Performance Program Notes

Those wishing to enter the BFA program must successfully pass an audition, interview, and have a cumulative GPA of 2.7. Students may audition before or during their Freshman year for consideration for admission. The freshman year is considered the "Pre-BFA Year 1: Fundamentals of the Theatre Arts." At the end of the Freshman year, the student must again pass an audition and have a cumulative GPA of 2.7 for continuation into "Year 2: Foundations of Performance." At the end of the Sophomore year, the student must again pass an audition and have a cumulative GPA of 2.7 for continuation into "Year 3: Performance Techniques." At the end of this Junior year, the student must again pass an audition and have a

cumulative GPA of 2.7 for continuation into "Year 4: Auditions and Performance."

BFA students in Theatre Performance are required to audition for all departmental main stage productions. BFA students are expected to perform as cast.

BFA students in Theatre Performance are encouraged to audition off-campus. Acceptance of off-campus roles is allowed with approval of the Department Chair.

Assessment will be held in April of each year to determine if academic and technical proficiency standards have been met for retention in the program.

GPA for admission: A cumulative GPA of 2.7 is required for admission to the degree.

GPA to graduate: A cumulative GPA of 3.0 must be maintained in major courses and a 2.5 overall cumulative GPA is required for graduation. Students whose GPA drops below 2.5 will be prohibited from participating in productions for the following semester.

Approved Theatre Electives for BFA in Theatre Performance:

AREA II – Design/Technical

THE	3350	Makeup
THE	3310	Costuming I
THE	3320	Costume Construction
THE	3330	Western Costume History
THE	3340	Costume Design
THE	3335	Scenic Design
THE	3355	Scenic Paint & Texturing
THE	3345	Lighting Design
THE	4300	Advanced Tech Production

AREA III – Directing/Administration/Mgmt.

THE	3400	Directing I
THE	3450	Stage Management
THE	3460	Theatre Administration

AREA V – Experiential Theatre

THE	3820	Children's Theatre on Tour
THE	3830	Kean Players on Tour
THE	3840	Summer Theatre
THE	4850	Amer.Reg. Th. Exp.
THE	4860	Contemp British Theatre
THE	4870	Contemporary NY Theatre

AREA VI – Independent Study/Special Topics, Co-ops

THE	3961-3	Issues in Theatre
THE	3975	Theatre Practicum 1 credit
THE	3976	Theatre Practicum 2 credits
THE	3977	Theatre Practicum 3 credits
THE	4955	Co-op 3 credits
THE	4956	Co-op 6 credits

APPROVED LITERATURE FOR THEATRE COURSES

ENG	2210	World Drama
ENG	3316	Elizabethan - Stuart Drama
ENG	3320	Restoration -18thc Drama
ENG	3514	American Drama
ENG	3515	Modern Drama
ENG	3550	Characters in Amer. Drama
ENG	3555	Comedy

ENG	4405	Shakespeare: Selected Plays	
ENG	4421	Tennessee Williams	
ENG	4425	Eugene O'Neill	
ENG	4430	Ibsen, Strindberg, Chekhov, & Shaw	
BFA IN THEATRE DESIGN AND TECHNOLOGY			124
GENERAL EDUCATION AND ADDITIONAL LIBERAL ARTS REQUIREMENTS			32
FOUNDATIONS REQUIREMENTS^{2,4}			13³
GE	1000	Transition to Kean ¹	1
OR			
GE	3000	Transfer Transitions ¹	1
ENG	1030	College Composition	3
MATH	1000, 1010, 1016, 1030	OR 1054	3
COMM	1402	Speech Communication as Critical Citizenship	3
GE	2025	Research and Technology	3
DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS			
<i>Humanities</i>			6
*ENG	2403	World Literature	3
Select one course from the following:			3
AH	1700 or 1701	Art History	
FA	2300 or FA 2150		3
ID	3230	Understanding Images	3
Philosophy or Religion or Music or Foreign Languages ⁵ or Interdisciplinary			3
<i>Social and Behavioral Sciences</i>			6
*HIST	1062	Worlds of History	3
Select one of the following:			3
Economics or Geography			3
Political Science			3
PSY	1000	General Psychology	3
Sociology or Anthropology			3
Interdisciplinary			3
<i>Science & Mathematics</i>			7
*MATH or CPS (Options: MATH 1010, 1016, 1030, 1054, CPS 1032, 1231)			3
Select one lab science:			4
Biology, Chemistry or Physics			
Astronomy, Meteorology, or Geology			
ADDITIONAL REQUIREMENTS⁷			26
ENG	3215	Shakespeare Survey	3
ID	2701	Plays: On Page and On Stage	3
One course from the approved Theatre Literature list			3
(ENG 2210, 3316, 3320, 3514, 3515, 3550, 3555, 4405, 4421, 4425, 4430)			
ID	3341-3	Behind the Scenes	8
Select 9 s.h. from approved supportive courses (list in Department of Theatre office)			9
MAJOR REQUIREMENTS⁶			60

THEATRE FOUNDATION⁶				18
THE	1000	Introduction to Theatre		3
THE	1100	Acting I		3
THE	1300	Intro to Performance Design		3
THE	3700	Script Analysis and Dramaturgy		3
THE	3710	World Theatre I (WR)		3
THE	3720	World Theatre II		3

THEATRE DESIGN/TECH REQUIREMENTS⁶				42
THE	2300	Technical Theatre Production		3
THE	2365	Drafting and Rendering		3
THE	2450	Stage Management		3
THE	3335	Scenic Design		3
THE	3340	Costume Design		3
THE	3345	Lighting Design		3
THE	3400	Directing I		3
THE	2301-6, 4301-6	Theatre Lab		3
Select one of the following:				3
THE	3330	Western Costume History		3
AH	3790	Furniture and Interiors		3
AH	3792	History of Architecture		3

THEATRE ELECTIVES⁶				12
Select two of the following:				6
THE	3350	Stage Make-Up		3
THE	3320	Costume Construction		3
THE	3355	Scenic Painting and Texturing		3
THE	3460	Theatre Administration		3
THE	4300	Advanced Tech Theatre		3
Select 6 S.H. from Approved Theatre Electives (no more than 3 S.H. from Area I)				6

MAJOR/GE CAPSTONE⁶				3
THE	4350	Portfolio Preparation		

FREE ELECTIVES:				6
TOTAL				124

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

² See prerequisites and corequisites.

³ Additional 3 credit course paired with Reading may be required by placement testing.

⁴ Eng 1030 must be completed with a grade of C or better.

⁵ Credit granted only upon completion of two semesters.

⁶ A maximum of two C's in all academic major courses. All other grades in academic major courses must be a B- or better.

⁷ Additional requirements must be completed with a grade of C or better.

*Required Distribution Course

Additional BFA in Theatre Design and Technology Program Notes

Those wishing to enter the BFA program must successfully pass a portfolio review, interview, and have a cumulative GPA of 2.5. Students may

present their portfolio before or during their freshman year for consideration for admission. The freshman year is considered the "Pre-BFA Year 1: Fundamentals of the Theatre Arts."

At the end of the Freshman year, the student must again pass a portfolio review and have a cumulative GPA of 2.5 for continuation into "Year 2: Foundations of Design and Technology." At the end of the Sophomore year, the student must again pass a portfolio review and have a cumulative GPA of 2.5 for continuation into "Year 3: Design Techniques and Implementation." At the end of this Junior year, the student must again pass a portfolio review and have a cumulative GPA of 2.5 for continuation into "Year 4: Designing and Implementation."

BFA students in Theatre Design and Technology are required to participate in either a design and/or technical capacity for all departmental main stage productions.

BFA students in Theatre Design and Technology are encouraged to design and provide technical support for theatre productions off campus. Acceptance of off-campus production work is allowed with approval of the Department Chair.

Assessment will be held in April of each year to determine if academic and technical proficiency standards have been met for retention in the program.

GPA for admission: A cumulative GPA of 2.5 is required for admission to the degree. Students whose GPA drops below 2.5 will be prohibited from participating in productions for the following semester.

Approved Theatre Electives for BFA in Theatre Design and Technology:

AREA I – Performance (No more than 3 S.H. from Area I)

THE	2110	Movement for the Actor
THE	2150	Period Acting
THE	2140	Theatre Games & Improv
THE	3150	Contemporary Acting
THE	4100	Acting for the Camera
THE	4150	Acting as a Profession
THE	3145	Voice for the Performer

AREA II – Theatrical Design

THE	3330	Western Costume History
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AREA III – Technical Theatre

THE	3320	Costume Construction
THE	3350	Stage Makeup
THE	3355	Scenic Painting & Texturing
THE	4300	Advanced Tech Production

AREA IV – Theatre in the Community

THE	3200	Creative Drama
THE	3240	Theatre for Young Audiences
THE	3240	Creating Plays for Children
THE	3820	Children's Theatre on Tour
THE	3830	Kean Players on Tour
THE	3840	Summer Theatre Workshop

AREA V – Administration/Mgmt.

THE 3460 Theatre Administration

AREA VI – Directing & Playwriting

THE 3260 Playwriting for the Stage

THE 3400 Directing I

THE 4400 Directing II

AREA VII – Voice and Movement

THE 2100 Movement

THE 3120 Advanced Movement

THE 3160 Speak the Speech

THE 4110 Stage Dialects

TravelLearn**MINOR IN THEATRE****REQUIREMENTS**

THE 1000 Introduction to Theatre 3

THE 1100 Acting I 3

THE 2300 Technical Theatre Production 3

Three Theatre courses of which two must be 3000-4000 level 9

Two semesters of Theatre Lab 1

MINOR IN DANCE

CAS-405, (908) 737-0430

Coordinator: Michele Mossay

REQUIREMENTS

DANC 2710 Dance History 3

DANC 3400 Dance Composition 3

DANC 3140 Movement Improvisation 1

Select at least one of the following:

DANC 2110 Tech/Theory of Ballet 2

DANC 2120 Tech/Theory of Mod 2

DANC 2130 Tech/Theory of Jazz 2

Select 10 credits from the following¹:

DANC 2110 Tech/Theory of Ballet 2

DANC 2120 Tech/Theory of Mod ² 2

DANC 2130 Tech/Theory of Jazz² 2

DANC 2140 Dance Musical Theatre² 1

DANC 2150 Dance Styles² 1

DANC 2160 Tap² 1

DANC 3110 Adv Ballet² 1

DANC 3120 Adv Modern² 1

DANC 3130 Adv Jazz² 1

DANC 3160 Adv Tap² 1

DANC 3200 Theories & Methods of Creative Movement 3

¹At least 2 DANC elective credits must be 3000/4000 level

²Course may be repeated for up to 4 credits

THEATRE COURSES

THE 1000 Introduction to Theatre (3)

Survey of the basic elements and theories of theatre production with practical experiences in theatrical production and field trips to professional and amateur productions. Field trip fees and laboratory hours required. GEHU (E, SSII)

THE 1100 Acting I:

The Actor Prepares (3)

Survey of basic acting skills including individual exercises as well as partnered scene work. Performance fees may be required. GEHU (E)

THE 1150 Scene Study: Realism (3)

Utilizing American plays and the psychological realism approach to acting, explore the process of crafting focused and truthful onstage relationships, and develop rehearsal techniques focusing on textual analysis, observation, personalization, activation, and moment-to-moment realization of character and circumstance. Purchase of supplies and performance transportation/tickets may be required. (FA)

Prerequisite: THE 1100 or permission of instructor

THE 1160 The Performer's Presence I:

Working Improvisationally (1)

Laboratory experience where students will work on developing stage presence by expanding their creativity and spontaneity skills. Based in improvisation and ensemble exercises, focus on expanding personal expression in both the physical body and voice. Fees may be required. (FA)

Prerequisite: THE 1100, or permission of instructor

THE 1165 The Performer's Presence II:

Creating Work (1)

Laboratory experience where students will develop introductory skills for building ensemble techniques that focus on creating work using improvisational exercises. This course will culminate with a creative project devised by the students in class. Fees may be required. (SP)

Prerequisite: THE 1160, or permission of instructor

THE 1300 Introduction to Performance Design (3)

Introduction to the history and current trends in theatrical design, collaborative exploration of these design elements, and the aesthetics of design in the theatrical experience. Field trip and material fees required. (E)

THE 2110 Movement for the Actor (3)

A course in control of the actor's total instrument of expression and self-discipline of body movement. (SP)

Prerequisite: THE 1100

THE 2140 Theatre Games and Improvisation (3)

Improvisational stage techniques, focusing primarily on acting techniques for unscripted performance. (FA)

Prerequisite: THE 1100 or THE 1150

Equivalent to THE 3140

THE 2150 Period Acting on Today's Stage (3)

Exploration and application of historically based acting techniques currently in use on the contemporary stage. (FA)

Prerequisite: THE 1100, or permission of instructor.

THE 2300 Technical Theatre

Production (3)

An introductory course comprising the basic elements of scenery, lighting, and sound and their application in practical laboratory situations. Design, construction, rigging, lighting, and sound techniques are stressed. Additional lab hours are required. Lab fees will be required. (E)

Prerequisite: THE 1000 or permission of instructor.

THE 2301-6 Theatre Laboratory (.5)

A practical laboratory with production experiences provided in all areas of theatre. Scheduled lab times required. Meets 1 double period per week.

Requirement for BA Theatre majors (6 semesters), BA in Theatre with Teacher Certification (4), BFA Performance majors (2 semesters) and BFA Design/Tech majors (8 semesters). (E)

THE 2365 Drafting and Rendering for the Performing Arts (3)

Introduction to rendering and drafting techniques used in theatrical design and an exploration of various rendering media. Purchase of tools and equipment is required. (E3)

Prerequisite: THE 1000

Equivalent to THE 3365

THE 2450 Stage Management for the Theatre (3)

Study of the responsibilities of a stage manager in a professional theatrical production. Application of principles of good management and organization in the directorial team. Field trips required. (FE)

Prerequisite: THE 2300.

Equivalent to THE 3450

THE 3120 Advanced Movement (3)

Extended exploration of styles of stage and character movement. (FA)

Prerequisite: THE 2110

THE 3140 Improvisation: Acting Without a Net (3)

Improvisational stage techniques, focusing primarily on acting techniques for unscripted performance. (FA)

Prerequisite: THE 2110

Replaced by equivalent course THE 2140.

THE 3145 Voice for the Performer (3)

Concentration on the vocal production process for the performer. Exercises focusing on breathing, sound production, resonance, articulation and listening that allow the natural voice to be discovered. (E)

Prerequisite: GE 2023 or permission of instructor.

THE 3150 Contemporary Acting Techniques (3)

Practical application of contemporary acting techniques through scene study and analysis. (SP)

Prerequisite: THE 2150.

THE 3160 Speak the Speech (3)

Exploration of advanced techniques of classical acting, principally using the works of Shakespeare for analysis and practice. Emphasis on the connection between voice and the text with additional consideration of its connection to physical movement. (E3)

Prerequisite: THE 1000, THE 1100, THE 3145 and ENG 3215

- THE 3200 Creative Drama (3)**
Skills and methods utilizing creative drama as a teaching tool. Lesson plans will be tested and developed for creative movement, pantomime, improvisation, storytelling, and story dramatization to introduce, explore, or reinforce other content areas. (FA)
Prerequisite: GE 2023 and THE 1100
- THE 3220 Methods for Teaching Secondary School Theatre (3)**
Skills and methods to deliver a theatre curriculum in the secondary school setting. Developing curriculum, planning lessons, compiling a "mini" Teacher Work Sample, understanding the classroom environment, preparing for field study, and practicing classroom management will be covered. Site visits and field study experiences are included as part of the course. (FO)
Prerequisite: EDUC 3000 and 3401; Co-requisite: EMSE 3801, EMSE 3903, and THE 4220
- THE 3240 Theatre For Young Audiences (3)**
Introduction to theory and practice of theatre production for young audiences. (SP)
Prerequisite: GE 2303
- THE 3250 Creating Plays for Children's Theatre (3)**
The theory, method and practice of writing plays for children's theatre production. Scenes from plays will be staged in class. (FO)
Prerequisite: Any course in written composition, Junior level or permission of instructor.
- THE 3260 Playwriting for the Stage (3)**
Students learn the fundamentals of playwriting and apply said fundamentals to the creation of an original play for the stage, work together in a lab environment, and provide feedback as part of the continued development of the scripts in class. (FA)
Prerequisite: THE 1000, ENG 1030, GE 2023
- THE 3320 Costume Construction (3)**
A practical study of costume construction techniques and crafts used in the execution of costumes for the stage, including machine and hand sewing, pattern drafting, draping, and millinery skills. Production work is included as part of the course. Materials fee required. (E3)
Prerequisite: THE 2300
- THE 3330 Western Costume History (3)**
A historical survey of Western costume. (SO)
- ID 3331-3 Public Performance (1-3)**
Examination and creation of a public persona through textual analysis and external research of a literary text and the world it describes. (E)
Prerequisite: Permission of instructor.
- THE 3335 Scenic Design I (3)**
Problems in concept and composition are examined through the development of ground plans, elevations, and renderings. Material fees required. (FA)
Prerequisite: THE 2300, THE 3700.
- THE 3340 Costume Design (3)**
Studies in theory and practices of costume design for stage. Emphasis will be given to script analysis, period research, fabric, color theory, and the sketching of finished costume renderings. Materials fee required. (E3)
Prerequisite: THE 2300, THE 3700.
- ID 3341-3 Behind the Scenes of Public Performance**
Practical experience in supervisory, design, and technical positions in live public performance. Instructor will determine after selection of participants if level of involvement warrants one, two, or three hours of credit. (E)
Prerequisite: Permission of instructor.
- THE 3345 Lighting Design (3)**
General principles and practices of stage lighting and characteristics of stage lighting equipment. Material fees required. (E3)
Prerequisite: THE 2300, THE 3700.
- THE 3350 Theatrical Makeup (3)**
Basic theatrical make-up design and application (corrective, character, and fantasy) employing a variety of techniques. Purchase of personal make-up supplies required. Additional materials fees may be required. (FA)
Prerequisite: THE 2300.
- THE 3355 Scene Painting and Texturing for Theatre, TV, and Film (3)**
The study and practice of basic scenic painting with an emphasis on faux finishes and textures as it applies to theatre, television, and film. Material fees required. (SE)
Prerequisite: THE 2300, FA 1000 or FA 2404 (or equivalent), or permission of instructor.
- THE 3365 Drafting and Rendering for the Performing Arts (3)**
Introduction to rendering and drafting techniques used in theatrical design and an exploration of various rendering media. Purchase of tools and equipment is required. (E3)
Prerequisite: THE 2300, FA 1000 or FA 2404 (or equivalent), or permission of instructor.
Replaced by equivalent course THE 2365.
- THE 3400 Directing I (3)**
A study of the elements, techniques, and skills of directing for the stage. (SP)
Prerequisite: THE 3700.
- THE 3450 Stage Management for the Theatre (3)**
Study of the responsibilities of a stage manager in a professional theatrical production. Application of principles of good management and organization in the directorial team. Field trips required. (FE)
Prerequisite: THE 2300.
Replaced by equivalent course THE 2450.
- THE 3460 Seminar in Theatre Administration (3)**
A problem-centered seminar dealing with contemporary theatre administration. (FO)
Prerequisite: THE 2300.
- THE 3700 Script Analysis and Dramaturgy: From Page to Stage (3)**
Structural analysis combined with historical and conceptual investigation of performance texts from the standpoint of the director, designer, dramaturg, and actor in order to bring a text from page to stage. (E)
Prerequisite: THE 1000, GE 2025, ID 2701.
- THE 3710 World Theatre I: From Ancient Ritual to Courtly Spectacle (3)**
History and production texts of theatre from its ancient beginnings in myth and ritual to the highly codified performances of the 18th century. (FA)
Prerequisite: THE 1000, ENG 1030, GE 2023.
- THE 3720 World Theatre II: From Idealism to Realism to Ideologies (3)**
History and production texts of theatre from the romantic theatre of the early 19th century to myriad styles of theatrical production in the present day. (SP)
Prerequisite: THE 1000, ENG 1030, 2023.
- THE 3820 Children's Theatre on Tour (3)**
A contemporary play for children will be chosen, staged, and performed at local schools, orphanages, or children's hospitals. This course offers students an intensive experience as members of a touring company through their performance as actors, designers, stage managers, company managers, or crew members. (Rotating every 3 years)
Prerequisite: THE 2300 and audition, interview, or permission of instructor.
- THE 3830 Kean Players on Tour (3)**
An intensive student experience in touring classic or contemporary plays at high school, adult, and senior citizen centers. Students participate as actors, designers, stage managers, company managers, crew members. (Rotating every 3 years)
Prerequisite: THE 2300 and audition, interview, or permission of instructor.
- THE 3840 Summer Stock Theatre Workshop (6)**
An intensive student experience in the organization and performance of a two-show summer stock season. Audition required for actors. (FO)
Prerequisite: THE 2300 and audition/interview, or permission of instructor.
- THE 3961-63 Issues in Theatre (1,2,3)**
Designed to examine issues, developments, and modern trends in theatre practice. (FO)
Prerequisite: THE 2300.
- THE 3975-3977 Theatre Practicum (1,2,3)**
Individualized course allowing for practical application of technical, design, production administration, research/critical, or performance skills. (E)
Prerequisite: THE 1000, 1100, 2300, Junior/Senior standing, and an approved proposal.
- THE 4100 Acting for the Camera (3)**
The skills of film and television acting with practical performance and production experiences. (SE)
Prerequisite: THE 3150.
- THE 4110 Stage Dialects (3)**
Dialect as a tool in theatrical presentation using phonetic transcription to develop auditory, muscular and imitative speech skills. (FA)
Prerequisite: THE 3145.
- THE 4150 Acting as a Profession (3)**
A study of the professional New York theatre, with emphasis on the audition and the process of beginning a career. Field trip fees required. (FA)
Prerequisite: THE 3150, 3700.

THE 4220 Topics in Theatre Education (3)
Focus on career preparation, particularly the intersection of curricular and extra-curricular responsibilities for the theatre educator in a school setting. Investigation of job search strategies, producing the school play, managing the resources of a theatre and/or theatre classroom, planning educational field trips, and designing a guest artist residency. (FO)
Prerequisite: EDUC 3000, EDUC 3401
Co-requisite: EMSE 3801, EMSE 3903, and THE 3220

THE 4300 Advanced Technical Theatre Production (3)
An advanced course in traditional and contemporary solutions to technical production problems. Additional fees required. (FO)
Prerequisite: THE 2301-2 (2 semesters) or permission of instructor.

THE 4350 Portfolio Preparation (3)
Preparation of theatrical portfolios, personal marketing tools, and interview techniques. Purchase of tools and equipment is required. (E3)
Prerequisite: Senior standing, declared theatre major, THE 3365, completion of 3 approved theatrical design/tech or art courses, or permission of instructor

THE 4400 Directing II (3)
Artistic and technical challenges in directing the classical, the period, the avant-garde, the experimental, or original script. (FO)
Prerequisite: THE 3400, THE 3700

THE 4850 Contemporary American Regional Theatre Experience(3)
Study of the American regional theatres. On-site experiences at regional theatres in the Northeast United States including tours and performances. Required fees for travel expenses. (FO)

THE 4860 Contemporary British Theatre (3)
A study of the British theatre. On-site experiences in London and Stratford-Upon-Avon, England. Required fees for travel expenses. (SO)
Prerequisite: Permission of instructor.

THE 4880 Ancient Beginnings, Ancient Theatres – Travel Learn (3)
This course provides students the opportunity to visit and learn about theatre structures of the ancient world through on-site visits, lectures, and discussions in selected countries throughout the Mediterranean, Middle East, and Europe. Other cultural sites in close proximity to the archeological remains will also be included. (FO)
Prerequisite: none

THE 4900 Senior Seminar in Theatre (3)
Advanced exploration of theatre topics, including the practical aspects of the business of the theatre, conceptualization, collaboration, and communication, culminating in a final research project to be presented and defended. (FA)
Prerequisite: THE 2300, THE 3700, senior standing, declared theatre major, or permission by department chair.

THE 4955-7Cooperative Education: Work Study (3, 6, 12)
Supervised placement in an employment position utilizing background in Theatre. THE 4955 and 4956 may be repeated for credit. A maximum of 12 credit hours in co-op ed may be applied to the B.A. degree. (E)
Prerequisite: Minimum of 24 credit hours in Theatre courses and approval of the department chair.

ID 2701 Plays: On Page and On Stage(3)
Examination of theatrical scripts in context of their realization in production. Purchase of theatre tickets required. (SP)
Prerequisite: None

ID 3331-3 Public Performance (1-3)
Examination and creation of a public persona through textual analysis and external research of a literary text and the world it describes. (E)
Prerequisite: Permission of instructor.

ID 3341-3 Behind the Scenes of Public Performance
Practical experience in supervisory, design, and technical positions in live public performance. Instructor will determine after selection of participants if level of involvement warrants one, two, or three hours of credit. (E)
Prerequisite: Permission of instructor.

DANCE COURSES

DANC 2110 Technique and Theory of Ballet (2)
Exploration of the conceptual and experiential development of classical ballet, with particular emphasis on technique and skill. May be repeated for credit. Supply fees required. (E)
Prerequisite: Permission of Instructor.

DANC 2120 Technique and Theory of Modern Dance (2)
Exploration of conceptual and experiential development of modern dance, with particular emphasis on technique and skill. May be repeated up to four times for credit. Supply fees. (FA)
Prerequisite: Permission of Instructor.

DANC 2130 Technique and Theory of Jazz Dance (2)
Exploration of the conceptual and experiential development of jazz dance styles, with particular emphasis on technique and skill. May be repeated up to four times for credit. Supply fees. (SP)
Prerequisite: Permission of Instructor.

DANC 2140 Dance in Musical Theatre (1)
Conceptual and experiential exploration of the impact of jazz, ballet, tap, and modern dance styles within the context of the history of the musical theatre, with particular attention to the contributions of individual pioneering musical theatre choreographers. (SP)
Prerequisites: 2 semesters of any of the following: DANC 2110, 2115, 2120, 2125, 2130, 2135, or by Permission of Instructor.

DANC 2150 Dance Styles; Reconstructing and Interpreting Dance Repertoire (1)
Students will develop the technical and artistic skills necessary to recreate and perform historic and contemporary repertoire by well-known choreographers, integrating these forms into personal representations of choreography. Performance fees required. (E)
Prerequisite:
Audition/Interview, or Permission of Instructor.

DANC 2160 Tap (1)
Exploration of the conceptual and experiential development of Broadway and Rhythm Tap Dance styles. Particular emphasis to include clarity and separation of sound, exact rhythm, timing, and style. May be repeated for credit. Supply fees required. Tap shoes required. (FE)
Prerequisite: Permission of instructor

DANC 2300 Dance Production (3)
Students will acquire knowledge and skills necessary to professionally and safely use the technical elements required for dance performance. Training and topics include an introduction to theatre's structural components and equipment, video and media production, and designing audio, lighting, costume, and publicity materials. Laboratory hours outside of class meeting time may be required. Supply fees and attendance at on-and off-campus events may be required. (FO)
Prerequisite: Any 2 credits of DANC technique or THE 2300

DANC 2301, 2302, 2303, 2304 Dance Laboratory (.5)
A practical laboratory with production experiences provided in all areas of dance. Scheduled lab time required. Meets one double period per week. May be repeated for credit. Additional laboratory hours outside of class may be required. Supply fees and attendance at-on-and-off-campus may be required. (FO)
Prerequisite: Any 2 credits of DANC technique or THE 2300, THE laboratory

DANC 2710 Dance History (3)
Beginning with ancient dance, the influences of society on the transformation of dance styles throughout history until the present day are examined. Traces the development of Western dance, including ballet, jazz, tap, modern, and contemporary practices as well as non-western influences. (FE)
Prerequisite: None

DANC 3110 Technique and Theory of Ballet II (1)
Further accelerated exploration of the experiential development and advancement of classical ballet, with particular emphasis on consistency of technique and skill. May be repeated for credit. Supply fees required. (SE)
Prerequisite: Permission of Instructor

DANC 3120 Advanced Modern Dance Technique (1)
Advanced exploration of modern dance technique, with experiential integration of knowledge and skills to investigate and create personal methodologies that support movement challenges and aesthetic demands. May be repeated up to four times for credit. Supply fees required. (SE)
Prerequisite: Permission of Instructor

DANC 3130 Jazz II (1)

Advanced exploration of jazz dance technique, with experiential integration of knowledge and skills to investigate and create personal methodologies that support movement challenges and aesthetic demands. May be repeated up to four times for credit. Supply fees required. (FO)

Prerequisite: Permission of Instructor

DANC 3140 Movement Improvisation (1)

Students in this course will demonstrate use of movement improvisations applying various structures and sources of initiation, awareness of context and partner(s) and a broad range of movement vocabularies. Skills in maintaining and splitting focus, using partnering, and evaluating successful movement improvisations will be developed. (FE)

Prerequisite: any 2 credits of DANC technique

DANC 3200 Theory and Methods of Creative Movement (3)

Exploration of skills necessary to plan, lead, and evaluate effective use of creative movement for young people in various educational and community settings, focusing on the development of a child's personal development of body awareness, flexibility, spatial relationships, and manipulation of elements of dance. Use of auditory and visual stimuli will be covered, in addition to application across the curriculum. (FO)

Prerequisite: any 2 credits of DANC technique

DANC 3160 Tap II (1)

Accelerated exploration of the experiential development and advancement of Broadway and Rhythm Tap Dance. Particular emphasis will be on consistency of technique and skill to include: clarity of sound, coordination, exact rhythm variations, shading/accents, directional changes, speed and accuracy, and performance skills through a series of tap combinations and choreography. May be repeated for credit. Supply fees required. Tap shoes required. (FO)

Prerequisite: DANC 2160 or permission of instructor

DANC 3400 Dance Composition (3)

Introduces the basics of dance-making and choreography through the exploration of form, style, and content. Each student will create short compositions, in order to begin to develop their individual aesthetic as a choreographer. Performance fees required. (SO)

Michael Graves College

Dean, David Mohnney, FAIA

GLAB 429; (908) 737-4772

dmohnney@kean.edu

Associate Dean, Prof. Rose Gonnella

GLAB 522; 908-737-4740

rgonnell@kean.edu

The Michael Graves College houses the Robert Busch School of Design and the School of Public Architecture. Both schools are committed to humanistic design values that improve the quality of public environments, products, and visual communications. Both engage in meaningful outreach activities that are integrated into the curriculum. And both offer meaningful opportunities for students to demonstrate their design skills at the highest level.

For more information, please see:
<http://www.kean.edu/academics/michael-graves-college>

ACADEMIC DEGREES, PROGRAMS

Robert Busch School of Design:

B.F.A. in Graphic Design

Interactive, Print, & Screen Option

Interactive Advertising Option

B.F.A. in Interior Design

B.I.D. in Industrial Design

School of Public Architecture:

B.A. in Architectural Studies

FACULTY

Robert Busch School of Design:

Gonnella (Associate Dean), Anderson, Johnston, Kutuk, Landa, O'Shea, Navetta, Reigle, Robbins, Roberts

School of Public Architecture:

Mohnney (Dean), Konyk, Moore, Washington

COURSE SCHEDULING FREQUENCIES

At the end of the course description is a code in parenthesis that indicates the frequency the course is offered to assist students in planning their registration.

Key:

E = Every Semester

FA = Every Fall

SP = Every Spring

FE = Fall, Even Years

SE = Spring, Even Years

FO = Fall, Odd Years

SO = Spring Odd Years

E3 = Every Third Semester

WS = Every Winter Session

SSI = Every Summer Session I

SSII = Every Summer Session II

SSIE = Summer Session I, Even Years

SSIO = Summer Session I, Odd Years

SSIIE = Summer Session II, Even Years

SSIIIO = Summer Session II, Odd Years

Robert Busch School of Design

BFA Graphic Design coordinator: Prof. Alan Robbins
arobbins@kean.edu

Industrial Design coordinator: Lecturer Efe Kutuk
efkutuk@kean.edu

Interior Design coordinator: Prof. Linda O'Shea
loshea@kean.edu

Design Center adviser: Prof. Alan Robbins
arobbins@kean.edu

The School of Design offers the Bachelor of Fine Arts (BFA) in Graphic Design: Interactive, Print, and Screen or Graphic Design: Interactive Advertising Design (formerly titled "Visual Communications") and in Interior Design, and the Bachelor of Industrial Design (BID).

The BFA and BID degrees offer intensive professional study for students seeking careers in design. Emphasis is placed upon creativity and function in designing products, environments, and visually communicating messages.

A portfolio review along with admission to the University, is required for acceptance into the BFA and BID programs. Information regarding the portfolio requirement may be obtained from The School of Design (908) 737-4740. Students enrolled in the BFA and BID programs are required to maintain a 3.0 grade point average in major requirements to continue in the program and to receive the degree.

The BFA and BID programs are fully accredited by the National Association of Schools of Art and Design (NASAD). The Interior Design program is also accredited by the Council for Interior Design Accreditation (CIDA).

For more information, please see
<http://www.kean.edu/academics/robert-busch-school-design>

All incoming freshman and transfer students are required to purchase, maintain, and equip a laptop computer for use in design courses. See the specific requirements on the Robert Busch School of Design website or request directions from design@kean.edu.

For more information, please see
<http://www.design.kean.edu>

B.F.A. DEGREE:

GRAPHIC DESIGN: INTERACTIVE, PRINT, AND SCREEN

Coordinator, Prof. Alan Robbins
arobbins@kean.edu

GLAB-518, (908) 737-4748

This B.F.A. degree is a studio-oriented design program. Students focusing on Interactive, Print, and Screen will develop expertise in the creation of visual messages for graphic design. The curriculum includes a concentration in this design discipline and a broad foundation in the liberal arts, studio arts, and art history.

Emphasis is on creative problem-solving, design competence, and technical skills. The program of study also develops skills in critical thinking, and oral and written communications.

Students are required to maintain a 3.0 GPA in all major requirements to continue in the program and to receive the BFA degree.

The program is fully accredited by the National Association of Schools of Art and Design. (NASAD)

Upon completion of GD 3020 Graphic Design Fundamentals I, students are required to submit a portfolio of creative work for Continuation Review. Successful evaluation at the review along with 3.0 GPA is mandatory in order to continue in the program and to receive the BFA Degree.

GRAPHIC DESIGN: INTERACTIVE, PRINT, AND SCREEN 131

GENERAL EDUCATION 35

FOUNDATION REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition (Requires a C or better) 3

MATH 1000; 1010; 1016; 1030; 1054 3

COMM 1402 Speech Communication 3

GE 2025 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 6

*ENG 2403 World Literature 3

Select one course from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Music or Theatre 3

Foreign Languages

(Must take I and II for credit) 3

Interdisciplinary 3

Social Sciences 6

*HIST 1062 Worlds of History 3

Select one course from below:

Psychology 1000 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 7

Science and Mathematics

MATH 1010;1016;1030;1054; or CPS 1032;1231 3

Lab Science

Biology; Chemistry; Physics; Geology; Meteorology; Earth Science; Astronomy.

Interdisciplinary 4

G.E. AND MAJOR CAPSTONE 3

DSN 4000 Critical Perspectives in Design ** *** 3

ADDITIONAL REQUIRED COURSES 12

AH 1700 Art, Prehistoric - Medieval 3

AH	1701	Art, Renaissance - Modern	3
AH	3740	Modern Art	3
ID	3230	Understanding Images	3

ACADEMIC MAJOR *** 78

REQUIRED FOUNDATION CORE 15

DSN	1100	Introduction to Design and Visual Culture	3
DSN	1101	Visual Form I	3
DSN	1102	Visual Form II	3
DSN	1103	Visualizing Techniques I	3
DSN	1104	Visualizing Techniques II	3

REQUIRED MAJOR COURSES 63

GD	1000	Computers in Graphic Design +	3
GD	2005	Studio Skills	3
GD	2030	Graphic Design Survey	3
GD	3030	History of Visual Communications	3
GD	2010	Typography I	3
GD	3010	Typography II	3
GD	3011	Typography III	3
GD	3020	Graphic Design Fundamentals I	3
GD	3021	Graphic Design Fundamentals II	3
GD	2011	Expressive Imaging	3
GD	3320	Web and Interactive Design	3
GD	3321	Motion Graphic Design I	3
GD	3220	Advertising I (WE)	3
GD	4101	Concept to Print	3
GD	4099	Portfolio	3

Six Major Upper Division Courses
(Selected with advisement)> 18

FREE ELECTIVES > 6

At least 50% must be 3000/4000 level

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

Special Notes:

*G.E. required course

**Course required by Major

***All Major courses require a grade

of C or better and 3.0 GPA minimum

>Require permission through petition

+ Can test out and substitute GD elective courses

Note: See foreign language requirements

B.F.A. DEGREE:

GRAPHIC DESIGN: INTERACTIVE ADVERTISING

Adviser: Prof. Robin Landa

rlanda@kean.edu

GLAB-516, (908) 737-4744

This B.F.A. degree is a studio-oriented design program. Students focusing on Interactive Advertising will develop expertise in the cre-

ation of visual messages for branding and advertising. The curriculum includes a concentration in this design discipline and a broad foundation in the liberal arts, studio arts, and art history. Emphasis is on creative problem-solving, design competence, and technical skills. The program of study also develops skills in critical thinking, and oral and written communications.

Students are required to maintain a 3.0 GPA in all major requirements to continue in the program and to receive the BFA degree.

Upon completion of GD 3020 Graphic Design Fundamentals I, students are required to submit a portfolio of creative work for Continuation Review. Successful evaluation at the review along with 3.0 GPA is mandatory in order to continue in the program and to receive the BFA Degree.

The program is fully accredited by the National Association of Schools of Art and Design. (NASAD)

GRAPHIC DESIGN: INTERACTIVE ADVERTISING 131

GENERAL EDUCATION 35

FOUNDATION REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition (Requires a C or better) 3

MATH 1000; 1010; 1016; 1030; 1054 3

COMM 1402 Speech Communication 3

GE 2025 Research & Technology 3

DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS

Humanities 6

*ENG 2403 World Literature 3

Select one course from below:

Fine Arts or Art History 3

Philosophy or Religion 3

Music or Theatre 3

Foreign Languages (Must take I and II for credit) 3

Interdisciplinary 3

Social Sciences 6

*HIST 1062 Worlds of History 3

Select one course from below:

Psychology 1000 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science and Mathematics 7

MATH 1010;1016;1030;1054; or CPS 1032;1231 3

Lab Science

Biology; Chemistry; Physics; Geology;

Meteorology; Earth Science; Astronomy.

Interdisciplinary 4

G.E. AND MAJOR CAPSTONE 3

DSN	4000	Critical Perspectives in Design ** ***	3
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ADDITIONAL REQUIRED COURSES 12

AH	1700	Art, Prehistoric - Medieval	3
AH	1701	Art, Renaissance - Modern	3
AH	3740	Modern Art	3
ID	3230	Understanding Images	3

ACADEMIC MAJOR *** 78

REQUIRED FOUNDATION CORE 15

DSN	1100	Introduction to Design and Visual Culture	3
DSN	1101	Visual Form I	3
DSN	1102	Visual Form II	3
DSN	1103	Visualizing Techniques I	3
DSN	1104	Visualizing Techniques II	3

REQUIRED MAJOR COURSES 63

GD	1000	Computers in Graphic Design +	3
GD	2005	Studio Skills	3
GD	2030	Graphic Design Survey (WE)	3
GD	2010	Typography I	3
GD	3010	Typography II	3
GD	3030	History of Visual Communications	3
GD	3020	Graphic Design Fundamentals I	3
GD	3021	Graphic Design Fundamentals II	3
GD	3220	Advertising I (WE)	3
GD	4220	Advertising II	3
GD	3230	Copywriting I	3
GD	3320	Web and Interactive Design I	3
GD	3321	Motion Graphic Design I	3
GD	4121	Identity & Information Design	3

OR

GD	4223	Brand Strategy and Design	3
GD	4101	Concept to Print	3
GD	4222	Design of Advertising	3
GD	4120	Promotional Design	3
GD	4099	Portfolio >	3

Three Major Upper Division Courses
(Selected with advisement)> 9

FREE ELECTIVES > 6

At least 50% must be 3000/4000 level

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

Special Notes:

*G.E. required course

**Course required by Major

***All Major courses require a grade

of C or better and 3.0 GPA minimum

>Require permission through petition

+ Can test out and substitute GD elective courses

Note: See foreign language requirements

B.F.A. DEGREE

INTERIOR DESIGN

Coordinator, Prof. Linda O'Shea

GLAB-520, (908) 737-4750

This B.F.A. degree program prepares graduates for entry into the Interior Design field, and with the basic educational background necessary for eventual professional certification. The curriculum includes in-depth study of the principles and practice of interior design as well as a broad foundation in the liberal arts, studio arts and art history. Emphasis is on aesthetic awareness, creative development, and effective design solutions based on human needs in the contemporary environment.

Students are required to maintain a 3.0 grade point average in major requirements to continue in the program and to receive the BFA degree.

The program is fully accredited by the Council for Interior Design Accreditation (CIDA) and by the National Association of Schools of Art and Design (NASAD).

GENERAL EDUCATION 35

FOUNDATION REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition
(Requires a grade of "C" or better) 3

MATH 1000; 1010; 1016; 1030; 1054 3

COMM 1402 Speech Communication 3

GE 2025 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 33-34

Humanities 9

*ENG 2403 World Literature 3

ID 3230 Understanding Images 3

Social Sciences 9

*HIST 1062 Worlds of History 3

Choose one course from below:

Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 7

CPS 1031, 1231 3

Lab Science 4

Biology; Chemistry; Physics; Geology;

Meteorology; Earth Science; Astronomy

G.E. AND MAJOR CAPSTONE 3

(Requires a grade of "C" or Better)

DSN 4000 Critical Perspectives
in Design 3

ADDITIONAL REQUIRED COURSES 18

AH 1700 Art History from Prehistoric
thru Middle Ages 3

AH 1701 Art History from
Renaissance to Modern
World 3

FA 2288 Furniture Making 3

AH 3790 History of Furniture/
Interiors 3

AH 3792 History of Architecture 3

FA 0000- Studio Elective 3

***ACADEMIC MAJOR 72

REQUIRED FOUNDATION CORE 15

DSN 1100 Introduction to Design
& Visual Culture 3

DSN 1101 Visual Form I 3

DSN 1102 Visual Form II 3

DSN 1103 Visualizing Techniques I 3

DSN 1004 Visualizing Techniques II 3

AREA OF EMPHASIS 57

INTD 1100 Intro to Interior Design 3

INTD 2100 Drafting for Interior Design 3

INTD 3100 Interior Design Studio I 3

INTD 3120 Architectural Drawing and
Rendering 3

INTD 2110 Computer-Aided Drafting
for Int. Design I 3

INTD 3140 Computer-Aided Drafting
for Int. Design II 3

INTD 3130 Materials & Finishes 3

INTD 3110 Interior Design Studio II 3

INTD 3131 Architectural Lighting
Design 3

INTD 3132 Life-Safety Codes for
Interiors 3

INTD 3133 Building Construction &
Materials 3

INTD 4121 PhotoShop for Interior
Designers 3

INTD 4122 Construction Documents
for Designers 3

INTD 4111 Interior Design Studio III 3

INTD 4112 Interior Design Studio VI 3

INTD 4113 Interior Design Studio V 3

INTD 4140 Interior Design Business
Practices 3

INTD 4132 Design & the Built
Environment (WE) 3

One INTD Course Chosen With Advisor 3

FREE ELECTIVES 6

At least 50% must be 3000/4000 level -
Chosen with Advisor

¹ University Requirement for Graduation for all
undergraduate students that must be satisfied in
one of two ways: Complete GE 1000 (all fresh-
men and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits
or more).

Special Notes:

*G.E. required course

**Course required by Major

***Academic Major courses must have an
average 3.0 GPA. A minimum grade of "C"
is required in each course.

>Require advisor permission

Note: See Prerequisites and Equivalencies

B.I.D. DEGREE

INDUSTRIAL DESIGN

Adviser: Efe Kutuk

efkutuk@kean.edu

GLAB-415, (908) 737-4778

The B.I.D. degree prepares graduates for entry into the field of consumer product design and development. This program utilizes the resources and facilities of the Robert Busch School of Design, the Department of Fine Arts as well as additional technical and laboratory facilities of the University. With a broad foundation in Liberal Arts it emphasizes both studio and computer design skills. Conceptualization and modeling techniques are developed in conjunction with production and manufacturing technologies. Emphasis is on creative problem solving, design aesthetics and technical competency in the development of innovative, useful consumer products.

Students are required to maintain a 3.0 grade point average in major requirements to continue in the program and to receive the BID degree.

The Design Internship course, DSN-3001, is only taken with Industrial Design faculty approval, otherwise the student will complete a Senior Thesis Project, also with faculty approval.

The program is fully accredited by the National Association of School of Art and Design (NASAD).

GENERAL EDUCATION 35

FOUNDATION REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition

(Requires a grade of "C" or better) 3

MATH 1000 Algebra for College Students 3

COMM 1402 Speech Communication 3

GE 2025 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 33-34

Humanities 6

ENG 2403 World Literature* 3

ID 3230 Understanding Images* 3

Social Sciences 6

HIST 1062 Worlds of History* 3

Choose one course from below:

PSY 1000 General Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 7

MATH 1010; 1016; 1030; 1054;
or CPS 1032; 1231 3

Choose one lab science from the following
areas:

Biology 4

Chemistry 4

Physics 4

Geology	4
Earth Science	4
Astronomy	4

G.E. AND MAJOR CAPSTONE: 3
(Requires a grade of "C" or better)

DSN 4000 Critical Perspectives in Design**	3
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ADDITIONAL REQUIRED COURSES 12

AH 1700 Art History from Prehistoric thru Middle Ages	3
AH 1701 Art History from Renaissance to Modern World	3
AH 3740 History of Modern Art	3
DSN 3001 Design Internship>	3

ACADEMIC MAJOR*** 75

REQUIRED FOUNDATION CORE 5

DSN 1100 Introduction to Design & Visual Culture	3
DSN 1101 Visual Form I	3
DSN 1102 Visual Form II	3
DSN 1103 Visualizing Techniques I	3
DSN 1104 Visualizing Techniques II	3
FA 2277 Sculpture: Modeling and Casting (formerly FA 3277)	3
GD 1000 Computers in Graphic Design I	3

AREA OF EMPHASIS 57

IND 1300 Drafting and CAD in Industrial Design	3
IND 2330 CAD and 3D Modeling	3
IND 3330 Advanced CAD Systems	3
IND 1310 History of Industrial Design	3
FA 2288 Furniture Making I (formerly FA 3288)	3
IND 2350 Production Methods I	3
DSN 4006 Special Topics: Production Methods II	3
DSN 4007 Special Topics in Design	3
IND 1308 Introduction to Industrial Design	3
IND 2300 Design Fundamentals	3
IND 2301 Model Design	3
IND 2302 Design Delineation	3
IND 2308 Industrial Design Studio I	3
IND 3308 Industrial Design Studio II	3
IND 4308 Industrial Design Studio III	3
IND 4310 Portfolio for Industrial Design	3

MAJOR ELECTIVES 9

FREE ELECTIVES 6

(At least 50% must be 3000/4000 level)

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)

OR GE 3000 (transfers entering with 30 credits or more).

Special Notes:

*G.E. required course

**Course required by Major

***Academic Major courses must have an average 3.0 GPA. A minimum grade of "C" is required in each course.

>Require advisor permission

Note: See Prerequisites and Equivalencies

DESIGN COURSES

FOUNDATION DESIGN COURSES

DSN 1100 Introduction to Design and Visual Culture (3)

Lecture course. An introduction to design as an essential human activity and as a primary creator of popular material culture. A wide range of trades and professions will be addressed. (E)
Prerequisites: None

DSN 1101 Visual Form I (3)

Studio Course. Continued exploration of elements and principles of visual form including color. Traditional and electronic media used to investigate the visual impact of communications media, human environments, and utilitarian objects. Supply and field trip fees required. (E)

DSN 1102 Visual Form II (3)

Studio Course. Continued exploration of elements and principles of visual form including color. Traditional and electronic media used to investigate the visual impact of communications media, human environments, and utilitarian objects. Supply and field trip fees required. (E)
Prerequisites: DSN 1101

DSN 1103 Visualizing Techniques I (3)

Beginning studio course using drawing as a communications skill for applied design disciplines. Emphasis on visualizing concepts for design projects in a wide range of materials and media. Supply and field trip fees required. (E)
Prerequisites: None

DSN 1104 Visualizing Techniques II (3)

Studio course exploring a variety of techniques of visualization, including electronic media, to develop and present design concepts. Emphasis on communicating ideas for realization as architectural and interior spaces, communication graphics, consumer products, packaging, and information design. Supply and field trip fees required. (E)
Prerequisites: DSN 1103

DSN 4000 Critical Perspectives in Design (3)

Seminar on landmark events, ideas, and individuals that have shaped design since the early 19th century. Emphasis upon theory and critical analysis as they apply to design. Design viewed in the broad context of cultural, technological and intellectual conditions that define modern and post-modern thought. (E)
Prerequisite: Six credits of Art and/or Design History

GRAPHIC DESIGN COURSES

GD 1000 Computers in Graphic Design I (3)

(formerly: VC 2240)

A studio course providing an introduction to drawing, type, image editing and image creation software. The course provides the foundation skills for the use of graphics software as a tool for visualizing and creative problem solving in design. Lectures and studio projects in design fundamentals (elements and principles) and basic image creation. Supply fees, laptop and printer required. (E)

Prerequisites: DSN 1101 or by permission of instructor

GD 2000 Computers in Graphic Design II (3)

(formerly: VC 4240)

A studio course providing advanced instruction in drawing, type, image editing, and image creation software. The course provides further study in the skills needed for the use of graphics software as a tool for visualizing and creative problem solving in design. Lectures and studio projects in design and image creation. Can be repeated for credit. Conference attendance required. Supply fees and personal laptop and printer required. (E)

Prerequisites: GD 1000 or permission of instructor

GD 2005 Studio Skills (3)

(formerly: VC 2202)

Studio course developing competence in the materials and techniques, and hand skills required for graphic design. Image making media. Visualizing techniques. Three-dimensional packaging techniques. Presentation techniques. (E)
Prerequisites: DSN 1102, DSN 1104, GD 1000

GD 2210 Typography I: Principles (3)

(formerly: VC 2210)

Studio Course introducing a foundational body of typographic knowledge; and visual skills required for the practicing designer. Emphasis upon historic and contemporary typographic design; the vocabulary of typography; formal components of letterforms and page composition. Supply fees required. (E)

Prerequisites: DSN 1101, DSN 1103

GD 2011 Expressive Imaging (3)

A studio course on the creation, use, and manipulation of images as a form of visual communication. Focus on the methods, theory, and the technology of image creation. Projects will include exploration of digital and film photography, xerography, graphic rendering, painting and drawing, collage and montage, computer imaging, and hand rendering. Supply fees and laptop required. (E)

Prerequisites: DSN 1101

GD 2030 Graphic Design Survey (3)

(formerly: VC 2201)

Lecture course examining the media used in graphic design and advertising. Career opportunities in the professional field. Examination of related occupations. Trends and developments in graphic design and advertising. Writing Emphasis Course (E/WR)

Prerequisite: None

GD 3010 Typography II: Communication(3)
(formerly: VC 3210)

Studio course continuing the study and practice of typography. The primary function of typography as the visual voice of language is explored. Emphasis upon ways in which the nuanced world of the written word finds appropriate typographic form. (E)

Prerequisites: GD 2210, GD 1000

GD 3011 Typography III: Expression (3)

Studio course continuing the study and practice of typography. The role of creative expression in typographic communications is explored. Emphasis is upon the achievement of maximum personal expression within the context of solving client-posed problems. (E)

Prerequisites: GD 2210, GD 1000

GD 3020 Graphic Design Fundamentals I(3)
(formerly: VC 3204)

Studio course in which both the principles of design problem-solving and practical applications are introduced. Issues of visual form, the design process, client and market requirements, research, and personal expression are addressed. Applications include identity and information, promotion and advertising. (E)

Prerequisites: GD 2010

GD 3021 Graphic Design Fundamentals II (3)

Studio course in which both the principles of design problem-solving and practical applications are introduced. Issues of visual form, the design process, client and market requirements, research, and personal expression are addressed. Application include editorial, interactive web/design. (E/SO)

Prerequisites: GD 2010

GD 3022 Cartooning I (3)
(formerly: VC 3231)

Studio course offering advanced exploration of the applications and uses of cartooning skills in the areas of advertising, promotion, publishing, graphic design, and illustration. (SP)

Prerequisites: GD 1104 or Permission of instructor

GD 3030 History of Visual Communications (3)
(formerly: VC 3290)

A historical survey of visual communications from ancient times to the present including illustration, book design, printing, graphic design, advertising, photography, film and the electronic media. (E/WS)

Prerequisites: None

GD 3220 Advertising I (3)
(formerly: VC 3220)

Studio/lecture in the creative area of advertising design for mass communication. The fundamentals of print and web will be covered. Students will create advertisements with a visual and verbal component. Copy writing for advertising will be studied. (E)

Prerequisites: ENG 1020 or ENG 1030

GD 3230 Copy Writing for Advertising (3)
(formerly: VC 3230)

A studio/lecture course developing copywriting for advertising. The fundamentals of writing will be primarily for print, as well as radio, TV, and the web will be covered. Students will create advertisements with a visual and verbal component. Emphasis will be on the copywriting and

design necessary to create advertisements building on prior knowledge of strategy and concept formulation. (SE/WS)

Prerequisites: English Composition 1020 or 1030, GD 3220

GD 3320 Web and Interactive Design I (3)

A studio course that provides the foundation for developing skill in concept development, designing, and the fundamental production of web and other screen based interactive applications. The focus is basic technology and problem solving, concepting, developing ideas for interactivity, and visualization of concepts for advertising, promotional and editorial design. Supply fees personal laptop required. (E/SO)

Prerequisites: GD 1000, and GD 2000 or by permission of instructor

GD 4320 Web and Interactive Design II (3)

A studio course that will provide advanced study in developing skill in concept development, designing, and the fundamental production of web and other screen based interactive applications. The focus is on technology and problem solving, concepting, developing ideas for interactivity, and visualization of concepts for advertising, promotional and editorial design. Conference attendance required. Supply fees and personal laptop required. Can be repeated for credit. (SP)

Prerequisites: GD 2250, GD 2260

GD 3321 Motion Graphics Design I (3)

A studio course that provides a foundation study in regard to skill and concept development for motion graphics for advertising, promotional, and editorial design. The focus is on applicable advertising and graphic design concepts and creative sequential screen compositions. Included is the foundation of study of the software used for visualizing and production of motion graphics design. Supply fees and personal laptop required. (SP)

Prerequisites: GD 1000, GD 2000, GD3320 or permission of instructor

GD 4321 Motion Graphics Design II (3)

A studio course which provides for further study in regard to skill and concept development for motion graphics design; The focus is on advanced design concepts and creative sequential screen compositions. Included is an advanced study of the software used for visualizing and production of motion graphics design. Can be repeated for credit. Supply fees and personal laptop required. Conference attendance required. (E)

Prerequisites: GD 3321, or permission of instructor

GD 4090 The Design Studio (3)
(formerly: VC 4211)

Studio course serving as a practical workshop in editorial and communication design. Design and production of printed material for university programs and departments and for local non-profit agencies. May be repeated once for credit. Must be taken concurrently with GD 4091 or 4101. Supply fees required. (E)

Prerequisite: GD 3021 and permission of instructor

GD 4101 Concept to Print (3)
(formerly: VC 3240)

Studio course developing skills and concepts used in the preparation of design solutions for reproduction by commercial printing processes, including software, introduction to printing technology, paper and ink selection, specs and measure, and production techniques. (E)

Prerequisites: GD 1000, GD 3021

GD 4091 Advanced Print Pre-press for Design Studio (3)

Studio course developing skills in the preparation of artwork for reproduction by commercial printing processes for Design Studio clients including: tools, understanding printing technology, offset lithography, digital printing, spot color and four color process, resolution, bleed, vector vs. pixel, In Design, Photoshop, Illustrator, Acrobat, all aspects of digital requirements. (E)

Prerequisites: DSN 1103, GD 2010, GD 1000, GD 3010, GD 4101

GD 4099 Portfolio (3)
(formerly: VC 4201)

Studio course for the creation, organization and presentation of the student's final portfolio of creative work. Review of career options, interview techniques. May be repeated once for credit. Supply fees and laptop required. (E)

Prerequisites: Permission of instructor.

GD 4120 Promotional Design (3)
(formerly: VC 4212)

A studio course in the application of graphic design elements and principles. Promotional design is the use of graphics to meet marketing objectives for products and services. May include branding, packaging, point of purchase, selling kits, and sales promotion concepts. May be repeated once for credit. (E)

Prerequisite: GD 3020, GD 2010, DSN 1101, DSN 1103, GD 1000

GD 4121 Identity and Information Design (3)
(formerly: VC 4211)

A studio course in the application of elements and principles of graphic design. Visual identity is the use of design to project a memorable graphic image of corporations, institutions, or other organizations. Information design is the use of pictorial or schematic graphics to communicate specific information in a concise visual manner. May include logos, multiple design applications with coordinated visual elements, pictograms, maps, and diagrams. May be repeated once for credit. (E)

Prerequisite: GD 3020, GD 2010, GD 3011, GD 2005

GD 4122 Editorial Design (3)
(formerly: VC 4211)

A studio course in the application of graphic design elements and principles to support and amplify the viewpoint of written messages. Formats may include magazines, newspapers, books, brochures, and web sites. May be repeated once for credit. (E)

Prerequisites: GD 3021

GD 4220 Advertising II (3)
(formerly: VC 4220)
Advanced studio/lecture course covering the creative area of advertising design for mass communication. In-depth study of print campaigns, web banners and television advertising. Emphasis on the strategy, concept formation, copy writing and design direction necessary to create campaigns. May be repeated once for credit. (E)
Prerequisites: GD 3220, GD 3230

GD 4222 Design of Advertising (3)
(formerly: VC 4221)
Studio course focusing on the design of advertising and promotional graphic applications. In-depth study of creative directives and techniques that build visual approaches, which aid in expressing and communicating concepts. Emphasis on creative thinking, experimentation, and expanding the range of visual vocabulary. Supply fees, laptop, and field trip fees required. (SP)
Prerequisite: GD 3220, GD 3020, ENG 1020 or ENG 1030

GD 4223 Brand Strategy and Design (3)
An advanced studio/lecture course on branding. The principles of brand building strategy, concepts, design, copywriting, and storytelling will be covered. Students will create branding campaigns from logo through advertising. Emphasis will be on the conceptual and design skills necessary to create effective brand building on prior knowledge of concept formation and design. Supply fees and laptop required. (FO)
Prerequisites: GD 3220, GD 3020, ENG 1020, or ENG 1030 or permission of instructor

GD 4224 Design for Mobile (3)
Studio course exploring the aesthetic and technical basics of designing for the mobile platform. Emphasis on creative development and technical skills. Supply and/or field trip fees required. (SO)
Prerequisite: GD 3021

GD 4330 The Web Design Workshop (3)
(formerly: VC 4330)
Studio course serving as a practical workshop in online editorial and communication design. Design and production of actual web sites for university programs, departments and non-profit organizations. May be repeated once for credit. (SO)
Prerequisites: GD 1000, GD 2000, GD 3021, and Permission of instructor

GENERAL DESIGN

DSN 1001 Drawing for Designers (3)
A studio course in drawing with an emphasis on the visualization of elements used in design applications. Use of a variety of wet and dry media, to produce both sketches and highly rendered work. Students will develop competencies in the use of drawing as a communications tool. (E)
Prerequisites: FA 1230 (or permission of the instructor)

DSN 3001 Design Internship (3)
Work related experience at sites approved by the Design department, providing students with on-the-job opportunities specific to their major and individual career goals. (E)
Prerequisites: Junior status. Completion of 12 S.H. in Design and permission of instructor.

DSN 4000 Critical Perspectives in Design
Lecture course surveying the landmark events, ideas, and individuals that have shaped design since the early 19th century. Emphasis upon theory and critical analysis as they apply to design. Design viewed in the broad context of cultural, technological and intellectual conditions that define modern and post-modern thought. (E)
Prerequisites: six credits of art and/or design history.

DSN 4002-4003 Independent Study in Design I & II (3)
Independent projects in a specific field of interest in the Robert Busch School of Design. The topic of study should be appropriate and beneficial to the student's field of professional study. Projects are determined by the instructor and student together and are closely supervised by the instructor. (E)
Prerequisites: Permission of instructor; Completion of Foundation and 12 credits of BFA or BID Programs.

DSN 4004-4005 Co-op in Design I & II (3,3)
Approved and supervised work experience related to the student's major and career goals. (E)
Prerequisites: Permission of instructor, completion of 12 SH in Design.

DSN 4006 Special Topics in Design (3)
Studio/lecture in a specially chosen creative area of design, application - industrial design, interior design, visual communications or collaborative projects among these disciplines. Studio and writing assignments address special topics not covered in required or existing course offerings. Emphasis on expanding the student's vision of applied design. (E)
Prerequisites: English Composition 1020 or 1030; and one of the following: VC 3204, or INT 3100 or IND 3308.

DSN 4007 Special Topics in Design (3)
Studio in a specially chosen creative area of design, application - industrial design, interior design, visual communications or collaborative projects among these disciplines. Studio and writing assignments address special topics not covered in required or existing course offerings. Emphasis on expanding the student's vision of applied design. (E)
Prerequisites: English Composition 1020 or 1030; and one of the following: VC 3204, or INT 3100 or IND 3308.

INDUSTRIAL DESIGN

IND 1300 Drafting & CAD in Industrial Design (3)
A comprehensive studio course introducing the standards, methods and applications of drafting and CAD in the field of design. Emphasis is on lettering, freehand sketching, problem solving, and the instrument and computer aided development of presentation and working drawings. Orthographic and axonometric projection, dimensioning, sections, geometric construction, and descriptive geometry. Special consideration will be given to the place of these tools in the entire continuum of the creative problem solving process in industrial design. (FA)
Prerequisite: None

IND 1308 Introduction to Industrial Design (3)
A lecture course examining career and business practices in the field of Industrial Design. Emphasis on the integration of human and social factors, aesthetics, problem solving and communication skills as well as the client/designer relationship. (FA)
Prerequisite: None

IND 1310 History of Industrial Design (3)
A lecture course surveying the history of Industrial Design from the Industrial Revolution to the present, highlighting major design movements, consumerism and the socio-political influences on modern design. (SP)
Prerequisite: None
Writing Emphasis Course

IND 2300 Industrial Design Fundamentals (3)
A studio course based on the fundamental elements of visual form, two-dimensional and three-dimensional visualization techniques, and the design process as related to contemporary industrial design. (SP)
Prerequisites: None

IND 2301 Model Design (3)
A studio course based on the planning, material selection, and fabrication techniques of model making. An emphasis on the examination of the fundamental elements of models, mock-ups, and prototypes, and their appropriate concurrent relationship to the total design process. (FA)
Prerequisites: IND 2300 or permission of instructor.

IND 2302 Design Delineation (3)
A studio course in design planning, material selection, execution and presentation. Emphasis on examination of projection and presentation alternatives, and their relationship to the total design process. (FA)
Prerequisites: IND 2300, DSN 1001 or permission of the instructor.

IND 2308 Industrial Design Studio I (3)
An introductory studio course in the development of design ideas, problem solving strategies, and concept presentation skills. Emphasis on the exploration of design methods, employing various materials and manufacturing processes. (SP)
Prerequisites: IND 2301

IND 2330 CAD & 3-D Modeling
This course presents a comprehensive introduction to the methods and applications of three dimensional modeling using Computer Aided Design systems. Emphasis is placed on use of CAD hardware and software as industrial design tools in the creative problem solving process. (SP)
Prerequisites: IND1300 or equivalent

IND 2350 Production Methods I (3)
A detailed exploration of past and current materials and manufacturing techniques used in the creation of mass produced goods. All content is geared toward the specific needs and interests of the Industrial Design field. Areas such as understanding the nature and properties of metals, plastics and other engineered materials will be covered. Standard methods for manipulating these materials, such as various types of forming, casting, cutting, fastening, and finishing will also be included. (Field trips may be required) (FA)
Prerequisite: None

IND 3308 Industrial Design Studio II (3)
An intermediate level studio course synthesizing and refining skills learned in related courses in Industrial Design. Students will design a single product as a member of a design team. Refinement of studio and communication skills resulting in the creation of a product prototype. (SSI)
Prerequisite: IND 2308

IND 3330 Advanced CAD Systems (3)
A studio course incorporating two-dimensional and three-dimensional computer-aided design systems. Application packages will be presented and analyzed including rendering systems; visualization techniques; database capabilities; wire, surface, and solid modeling; and finite element analysis. (FA)
Prerequisites: TECH 3220 or permission of instructor.

IND 4308 Industrial Design Studio III (3)
An advanced studio course refining and synthesizing knowledge and skills learned in previous courses in Industrial Design. Students will research and develop individual products. (FA)
Prerequisite: IND 3308

IND 4310 Portfolio: Industrial Design (3)
A studio course in the development of a comprehensive, professional representation of work in Industrial Design. Verbal, written and visual applications designed to strengthen underdeveloped areas of the portfolio. (SP)
Prerequisite: IND 4308 or permission of instructor.

INTERIOR DESIGN

INTD 1100 Introduction to Interior Design (3)
Studio experiences introducing the design and utilization of interior spaces for residential, business, industrial, public and multi-use purposes; role of the interior designer in integrating social, technical, aesthetic and cultural information into the process of design. (E)

INTD 2100 Drafting for Interior Design (3)
A studio introduction to architectural drafting techniques, conventions, floor plans, elevations and details applied to interior design planning. (E)

INTD 2110 Computer-Aided Design for Interiors I (3)
Studio exploration of the use of computer-aided applications in the field of Interior Design. Includes use of this technology in initial concept development, design refinement and proposal presentation. (FA)
Prerequisites: INTD 2100

INTD 3100 Interior Design Studio I (3)
Exploration of the fundamentals of interior design through the application of freehand sketching, schematic analysis, drafting, and graphic presentation to problems of small scale residential or commercial settings with an emphasis on basic human factors. Course requires completion of Sophomore Portfolio Continuation Review. Field experiences required, fees may apply. (SP)
Prerequisites: INTD 1100 & INTD 2100.

INTD 3110 Interior Design Studio II (3)
Studio course involving projects reinforcing the elements and principles of interior design as they apply to selected architectural surroundings. Initial explorations of the fundamentals of interior design through the application of freehand sketching, schematic analysis, drafting, and

graphic presentation to problems of small scale residential or commercial settings with an emphasis on basic human factors. Field experiences required, fees may apply. (FA)
Prerequisite: INTD 3100

INTD 3120 Architectural Drawing & Rendering (3)
Studio explorations of architectural drafting techniques and conventions, axonometric projection, one-point and two-point perspective, color and black and white media, applied to the needs of interior design and architectural graphic communication. (FA)
Prerequisite: INTD 2100.

INTD 3130 Materials and Finishes (3)
Lectures reviewing the methods, characteristics and application of interior architectural materials, finishes, and textiles. Field experiences required, fees may apply. (FA)
Prerequisite: INTD 3100.

INTD 3131 Architectural Lighting Design (3)
Introductory lecture course exploring the basics of Architectural lighting/electrical systems and the use of lighting as a design tool. Lighting applications in the built environment and how they interact to shape and sustain health, safety, and welfare of the public. Field experiences required, fees may apply. (SP)
Prerequisite: INTD 3100.

INTD 3140 Computer-Aided Design for Interiors II (3)
Advanced lecture/studio course focusing on the use of 3D modeling and Rendering computer applications in the field of Interior Design and Architecture. Basic computer commands and software applications. Includes use of technology in initial concept development, design refinement, and proposal presentation. Software fees required. (SP)
Prerequisites: INTD 2110

INTD 4111 Interior Design Studio III (3)
Studio course in the application of programming, space planning, Building and life-safety codes, materials, finishes, furnishings, drafting and graphic presentation to the design of commercial and interior environments. Field experiences required, fees may apply. (SP)
Prerequisite: INTD 3110, & concurrent with INTD 4122.

INTD 4112 Interior Design Studio IV (3)
Studio explorations in design of a variety of commercial, public, merchandising environments. Field experiences required, fees may apply. (FA)
Prerequisite: INTD 4111.

INTD 4113 Interior Design Studio V (3)
Studio course in the development of the design portfolio, professional development exercises, and exploration in professional practice examinations and scenarios. Field experiences required, fees may apply. (SP)
Prerequisite: INTD 4112, or by petition.

INTD 4121 Photoshop for Interior Designers (3)
Course provides a variety of techniques for using the computer to produce high-level renderings and presentations. Course focuses on the use of Photoshop, as well as other computer programs as a graphics communication tool. (E)
Prerequisite: INTD 3100.

INTD 4122 Construction Documents for Designers (3)
A studio/lecture course that introduces the student to architectural construction documents. Students are required to research and produce the drawings to construct a building. (SP)
Prerequisite: concurrent with INTD 4111.

INTD 4132 Design & the Built Environment (3)
Lectures surveying the contribution made by designers to the health, safety and well being of clients and the public; review of the basic psychological and sociological needs that designers must accommodate within the built environment. (SP/WE)
Prerequisite: INT 3100
Writing Emphasis Course

INTD 4140 Interior Design Business Practices (3)
Lectures reviewing business procedures, business and professional structures, and the legal and ethical dimensions of the interior design profession. (SP)
Prerequisite: INT 3100.
Prerequisite: VC 2240.

School of Public Architecture

National Accreditation:

National Architecture Accrediting Board (candidacy application in process)

Dean, David Mohnney, FAIA

GLAB 429; (908) 737-4772

For more information, please see
http://www.kean.edu/michael-graves-college

ACADEMIC DEGREES, PROGRAMS

ARCHITECTURE

B.A. in Architectural Studies
M. Arch.

The School of Public Architecture in the Michael Graves College will offer the Bachelor of Arts (BA) degree in Architectural Studies and the Master of Architecture professional degree. The M. Arch degree program will commence in the Fall of 2019.

The BA and M. Arch. degrees will offer intensive professional study for students seeking careers in architecture and environmental design. Emphasis is placed upon creative problem solving that advances a humanist idea of contemporary society.

A portfolio review along with admission to the University will be required for acceptance into the BA and M. Arch. programs. Information regarding the portfolio requirement may be obtained from the School of Public Architecture (908-737-4772). Students enrolled in the BA and M. Arch. programs will be required to maintain a 3.0 grade point average in major requirements to continue in the program and to receive the degree.

The professional program is initiating candidacy for accreditation through the National Architectural Accrediting Board. For information regarding College/program mission and student learning outcomes please email architecture@kean.edu

PROGRAM VISION:

The School of Public Architecture in the Michael Graves College emphasizes knowledge of humanist values as they affect the design of the contemporary built environment. It promotes the cultivation of comprehensive design skills that are made manifest through both thinking and representation. Using resources in proximity to its two campuses, it will prepare students to address the design of the public realm in both building and landscape. It will utilize two major metropolitan cities to engage with enhancing public spaces in a dynamic, changing environment. It will be a resource to its constituents – academic, professional, and public – through the promulgation of design at the highest levels.

ACCREDITATION: NAAB STATEMENT

In the United States, most registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit professional degree programs in architecture offered by institutions with U.S. regional accreditation, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted an eight-year, three-year, or two-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may require a preprofessional undergraduate degree in architecture for admission. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

B.A. DEGREE IN ARCHITECTURAL STUDIES:

This B.A. degree is a studio-oriented design program. Students focusing on Architecture will develop expertise in the creation of built structures and environments for public audiences. The curriculum includes a concentration in this design discipline and a broad foundation in the liberal arts, studio arts, and art history. Emphasis is on creative problem-solving, design competence and technical skills. The program of study also develops skills in critical thinking, and oral and written communications. The design of meaningful buildings and places in major metropolitan areas will be a focus of the program. International travel is a required component.

Students are required to maintain a 3.0 GPA in major requirements to continue in the program and to receive the BA degree.

GENERAL EDUCATION 43-45

FOUNDATION REQUIREMENTS 13

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

ENG 1030 Composition 3

(Requires a grade of "C" or better)

MATH 1000, 1010, or 1030 3

COMM 1402 Speech Communication 3

GE 2025 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 33-34

Humanities 9

ENG 2403 World Literature* 3

Select two of the following:

Fine Arts or Art History 3

Philosophy or Religion 3

Music or Theater 3

Foreign Languages 3

Interdisciplinary 3

Social Sciences 9

HIST 1062 Worlds of History* 3

Select two of the following:

PSY 1000 General Psychology 3

Economics or Geography 3

Political Science 3

Sociology or Anthropology 3

Interdisciplinary 3

Science & Mathematics 10-11

CPS or MATH 3

Lab Science 4

Biology, Chemistry, Physics, Geology,
Meteorology, Astronomy

Additional GE Approved Science 3-4

Health & Physical Education 2-3

ID 1225 Issues in Contemporary
Health 3

OR

ID 1010 Leisure & Recreation in
Multicultural Society 3

OR

TWO one credit PED courses 2

REQUIRED MAJOR COURSES 96

ARCH 1000 Intro to Architecture 3

ARCH 1101 Studio 1 4

ARCH 1102 Studio 2 4

ARCH 2103 Studio 3 4

ARCH 2104 Studio 4 6

ARCH 3105 Studio 5 6

ARCH 3106 Studio 6 6

ARCH 4107 Studio 7 6

ARCH 4108 Studio 8 6

ARCH 1301 Representation 1 3

ARCH 1302 Representation 2 3

ARCH 2303 Representation 3 3

ARCH 2304 Representation 4 3

ARCH 1601 Elements/Principles 1 3

ARCH 1602 Elements/Principles 2 3

ARCH 2603 Elements/Principles 3 3

ARCH 3401 Structures 1 3

ARCH 4402 Structures 2 3

ARCH 4403 Buildings Systems 1 3

ARCH 1201 History 1 3

ARCH 2203 History 3 3

ARCH 2204 History 4 3

ARCH 3205 History 5 3

ARCH 3206 History 6 3

ARCH 4207 History 7 3

MAJOR CAPSTONE: 3

ARCH 4208 History 8 3

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

*Required GE Distribution Course

ARCHITECTURE COURSES

ARCH 1000: Intro to Architecture (3)

An overview of the intellectual idea of how spaces affect people and culture, and the methods by which they are shaped, refined, and executed.

Prerequisite: none

ARCH 1101 Studio 1: Urbanism and Architecture (4)

The relationship between buildings and their contexts are the foundation for establishing an architectural language of forms and spaces. Projects of varying lengths will utilize local urban conditions as a basis for research and design, and address the cultural conditions evident in their formation. Development of spatial conceptual skills and the ability to convey design ideas through representation at different scales as well as verbally are stressed.

Prerequisite: none

ARCH 1102 Studio 2: Construction and Architecture (4)

How building elements are formed and assembled are addressed in detail. Historical methods of material assembly and their application to contemporary building methods at differing scales are studied carefully.

Prerequisite: ARCH 1101

ARCH 2103 Studio 3: Landscape (4)

The relationship between land and building is critical. How the issues of resource management, local materials, ecological building practices, topography, and climate affect building practices is studied in detail. The studio is linked to the Ecology and Environmental Ethics lecture course offered concurrently.

Prerequisite: ARCH 1102

ARCH 2104 Studio 4: Urban Building (6)

The formation and assembly of building elements in the urban context are addressed in detail. Skills to develop the ability to analyze a complex site and to make informed choices of regarding programming, structure and materials are developed. Historical methods of material assembly and their application to contemporary building methods at differing scales are studied carefully.

Prerequisite: ARCH 2103

ARCH 3105 Studio 5: Travel: Rome and Union (6)

The design of a building project in a new culture defines this travel semester. Themes include analysis of site conditions, culture as it affects programmatic analysis, ecological and environmental impact, and the historical and cultural themes appropriate for locale.

Prerequisite: ARCH 2104

ARCH 3106 Studio 6: Complex Program I (6)

The design of individual structures in a manner that addresses an increasingly complex program is addressed. Themes include detailed site conditions, functional program, structural and enclosure systems, ecological and environmental impact, and the historical and cultural themes appropriate for the topic.

Prerequisite: ARCH 3105

ARCH 4107 Studio 7: Urban Design, Planning, Housing (6)

The integration of a large structure into its surroundings is investigated. Housing programs of varied scale are addressed. The studio utilizes appropriate methods of utilizing local materials and systems of construction.

Prerequisite: ARCH 3106

ARCH 4108 Studio 8: Optional Studio: Individual Topics (6)

Elective topics for studio based on emerging interests of individual students and faculty. Students who will not continue with the professional graduate degree program have the option of replacing this studio with electives.

Prerequisite: ARCH 4107

ARCH 1301 Representation 1: Hand Skills (3)

The development of representational skills is paramount in enhancing the visual language of architecture. Accordingly, drawing from urban situations, the human figure, and still life in different media and at different scales are utilized. Proportion, scale, color, massing, and texture are elements in developing aesthetic judgment. Three-dimensional skills in model visualization and execution are also included.

Prerequisite: none

ARCH 1302 Representation 2: Hand Skills (3)

The continued development of refined representational skills is paramount in enhancing the visual language of architecture. Accordingly, drawing from urban situations, the human figure, and still life in different media and at different scales are utilized. Proportion, scale, color, massing, and texture are elements in developing aesthetic judgment. Three-dimensional skills in model visualization and execution are also included.

Prerequisite: ARCH 1301

ARCH 2303 Representation 3: Hand and Digital Skills (3)

The integration of analog and digital representational skills is addressed. The appropriate selection of representational tools based on design problem components is paramount.

Prerequisite: ARCH 1302

ARCH 2304 Representation 4: Hand and Digital Skills (3)

The integration of analog and digital representational skills is addressed. The appropriate selection of representational tools based on design problem components is paramount. Three-dimensional fabrication is a component of the course.

Prerequisite: ARCH 2303

ARCH 1601 Elements and Principles 1: An introduction to understanding Architecture (3)

Formal principles and analysis of formal relationships are investigated in depth. How building objects are composed, and their relationships to each other, are key elements in composing the built environment. Strategies for meaningful formal arrangements of the structures and places around us developed in detail and applied to studio projects.

Prerequisites: none

ARCH 1602 Elements and Principles 2: An introduction to understanding Architecture (3)

Formal principles and analysis of formal relationships are investigated in depth. How building objects are composed, and their relationships to each other, are key elements in composing the built environment. The elements of the building process, and their relationships to each other, and reviewed closely.

Prerequisite: ARCH 1601

ARCH 2603 Ecology, the Environment, and the Ethics of Architecture 1 (3)

A required course based on the relationship between building and ecology, and building and the environment. Offering both an historic and thematic overview, issues of natural systems, resource management, life-cycle costs, and global growth particularly in emerging 21st c. metropolises, will be addressed. Local conditions in the NY/NJ metropolitan region, and the Wenzhou region, will be covered as case studies.

Prerequisite: ARCH 1602

ARCH 3401 Structures 1 (3)

The principles of structural stability and innovation are addressed. Fundamental principles of structural behavior and how different systems of construction respond to them are examined in detail, through lectures, problem sets, and local case studies. Emphasis is given to wood and steel structures.

Prerequisites: none

ARCH 4402 Structures 2 (3)

The principles of structural stability and innovation are addressed. Fundamental principles of structural behavior and how different systems of construction respond to them are examined in detail, through lectures, problem sets, and local case studies. Emphasis is given to masonry and concrete structures.

Prerequisite: ARCH 3401

ARCH 4403 Building Systems 1 (3)

The application of the systems for building operation are addressed in detail. These include heat and air systems, water, lighting and electricity, communications, vertical movement, and security. The selection of appropriate systems based on building form, structure, and precedent are examined carefully.

Prerequisite: ARCH 4402

ARCH 1201 History 1 (3)

Curriculum would provide an overview of the historical development of architectural issues as well as a thematic investigation into how architectural qualities change over time. There is a close connection to the Elements and Principles 1 Course, which is also taught in this semester.

Prerequisite: none

ARCH 2203 History 3: 20th and 21st c. Architecture (3)

Modernism's development, and the challenges to it from the late 19th century to the present.

Prerequisite: ARCH 1201

ARCH 2204 History 4: Classical and Rational Architecture (3)

Focusing on the principles of classical architecture as an intellectual enterprise, primarily in Greek and Roman examples.

Prerequisite: ARCH 2203

ARCH 3205 History 5: Renaissance and Baroque Architecture (3)

Utilizing a travel semester for first-hand investigation of these vital eras in architecture. In addition to enhancing the earlier discourse about their historical evolution, the opportunity for on-site documentation, assessment, and evaluation of key architectural monuments is a major factor of this semester. Studies take place in Rome.

Prerequisite: ARCH 2204

ARCH 3206 History 6: 18th and 19th c. Architecture (3)

Examination of Enlightenment thinking and how the theories of architecture became established, primarily in Italy, France, England, Germany, and USA.

Prerequisite: ARCH 3205

ARCH 4207 History 7: Urban and Landscape Forms (3)

Documenting and investigating the patterns of settlement and land use with respect to buildings and architectural ideas.

Prerequisite: ARCH 3206

ARCH 4208 History 8: History/Theory Seminar (3)

A research-based seminar into a defined period of architectural history, culminating in a major writing exercise.

Prerequisite: ARCH 4207

Nathan Weiss Graduate College

Dean: Dr. Jeffrey P. Beck

Dean's Office Location:

East Campus, Suite 211

A limited number of undergraduate programs and courses (see below) are offered through academic units housed in the Nathan Weiss Graduate College.

For more information about the Nathan Weiss Graduate College and Kean's graduate programs and policies, please see the Kean University Graduate Catalog.

COURSE SCHEDULING FREQUENCIES

At the end of the course description is a code in parenthesis that indicates the frequency the course is offered to assist students in planning their registration.

Key:

E = Every Semester

FA = Every Fall

SP = Every Spring

FE = Fall, Even Years

SE = Spring, Even Years

FO = Fall, Odd Years

SO = Spring Odd Years

E3 = Every Third Semester

WS = Every Winter Session

SSI = Every Summer Session I

SSII = Every Summer Session II

SSIE = Summer Session I, Even Years

SSIO = Summer Session I, Odd Years

SSIIE = Summer Session II, Even Years

SSIIO = Summer Session II, Odd Years

Undergraduate OT Course:

Contact: Dr. Laurie Knis-Matthews

East Campus, Room 226B

OT 2400 Introduction to Occupational Therapy (3)

This intensive course will provide students an overview of the profession of occupational therapy. Students will explore their own occupations and examine influences such as cultural, social, economic or disability factors that impact occupational choices and performance. A historical perspective of occupational therapy, roles and responsibilities of occupational therapy practitioners and the educational, legal and ethical requirements for practice are reviewed. Observation hours to understand the role of an occupational therapy practitioner in various practice settings with the supervision of an occupational therapist are required. (FA, SP, SSI)

School of Communication Disorders and Deafness—Undergraduate Programs

Executive Director: Dr. Martin Shulman

East Campus, 106A, (908) 737-5802

School of CDD Faculty: Avitto, Cascia, Gertner, Goodman, Grover, Glazewski, Imsho, Kushla, Mandel, Namazi, Santo-Pietro, Shulman (Executive Director), Villanueva

The School of Communication Disorders and Deafness, housed in the Nathan Weiss Graduate College, offers two undergraduate programs—the major program, B.A. in Speech-Language-Hearing Sciences, and the minor in American Sign Language.

The undergraduate Speech-Language-Hearing Sciences program provides pre-professional preparation for entrance into a graduate program in speech-language pathology or audiology. The cohesive course sequence includes course work in the areas of basic science, social and behavioral sciences, general education, humanities and communication sciences and disorders. This curriculum provides students with a strong background beneficial for pursuing careers in speech-language pathology, audiology, psychology, social work, general or special education and allied health.

Students in all majors are welcomed to take American Sign Language as a minor in preparation for working with persons who are Deaf in their chosen profession. Culture and linguistic courses supplement the language classes; check the current course roster for the specific courses being offered each semester.

B.A. DEGREE

SPEECH-LANGUAGE-HEARING SCIENCES

Coordinator: Dr. Karen Kushla

East Campus 104G, (908) 737-5814

Students desiring pre-professional-preparation for successful entrance into a graduate program in speech-language pathology or audiology can prepare for this goal by enrolling in the Speech-Language-Hearing Sciences Program.

REQUIREMENTS FOR ADMISSION:

Students are considered "intended majors" until they have met all requirements for declaring the major which include:

GPA: A cumulative grade-point average of 3.0 or better from Kean and all transfer institutions is required.

Praxis I (Core Academic Skills for Educators): All students must take and earn the New Jersey Qualifying score for the reading, writing and math sections of the Core Academic Skills exam.

Course Credits: At least 45 credits must be completed before becoming eligible to declare Speech-Language-Hearing Sciences as the major.

Course Requirements: All students must complete the following four courses with a B- or better before becoming eligible to declare: CDD 2251, CDD 2254, CDD 2255, and CDD 2260.

REQUIREMENTS FOR RETENTION:

Resident and transfer students are required to meet all admission requirements before declaring Speech-Language-Hearing Sciences as their major. Once declared, students may begin taking the 3000-4000 level CDD courses. A grade of B- or better is required in all CDD courses and an over-all GPA of 3.0 must be maintained. Students not adhering to these standards will be advised to choose an alternative educational path.

B.A. IN SPEECH-LANGUAGE HEARING SCIENCES 124

GENERAL EDUC REQUIREMENTS 46

FOUNDATION REQUIREMENTS 13

GE	1000	Transition to Kean*	1
OR			
GE	3000	Transfer Transitions*	1
ENG	1030	Composition	3
MATH	1000	College Algebra	3
COMM	1402	Speech Communication	3
GE	2022	Research & Technology	3

*University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

DISCIPLINARY & INTERDISCIPLINARY REQUIREMENTS

Humanities		9
ENG	2403 World Literature	3
Two courses from two different areas:		
Fine Arts/Art History		3
Philosophy or Religion		3
Foreign Languages (must take I and II for credit)		3
Music or Theatre		3
Interdisciplinary		3
Social Sciences 9		
HIST	1062 Worlds of History	3
PSY	1000 General Psychology	3
One course from areas below:		
Economics or Geography		3
Political Science		3
Sociology or Anthropology		3
Interdisciplinary		3
Sciences & Mathematics		11
MATH	1010 Foundations of Math	3
BIO	1000 Principles of Biology	4
BIO	2402 Human Physiology & Anatomy	4

Health/Physical Education		4
ID	1225 Issues in Contemporary Health	3
Physical Education		1

ADDITIONAL REQUIREMENTS: 18

ID	2052	Human Exceptionality	3
ENG	3101	Intro to Linguistics	3
PSY	2100	Child Psychology	3
PSY	3110	Life-span Dev. Psychology	3
PSY	3200	Psychology Statistics	3
PSY	4200	Tests & Measurements	3

ACADEMIC MAJOR 30

(grade of B- or better required)			
CDD	2251	Intro Sp/Lang/Hear. Disorders	3
CDD	2254	Phonetics	3
CDD	2255	Language Development	3
CDD	2260	Anat/Phys Ear/Sp Mech	3
CDD	3259	Basic Audiology	3
CDD	3261	Speech Science	3
CDD	3262	Aural Rehabilitation	3
CDD	3267	Hearing Science	3
CDD	3269	Neuroscience in Speech/Hearing	3
CDD	3270	Dev. Phonology	3

PROFESSIONAL EDUCATION 21

(grade of B- or better is required)			
ASL	1101	American Sign Language I	3
CDD	3256	Disorders of Speech Prod & Voice	3
CDD	3257	Disorders of Lang & Comm. (WE)	3
CDD	4101	Deafness & Society	3
CDD	4269	Clinical Prof Issues in SLP	3
CDD	4274	Computer Tech for SLP	3
CDD	4272	Pre-professional Sp. Lang Path/Audiology: Preparing for a Career (Capstone)	3

FREE ELECTIVES 12

Select with advisement. At least 50% must be at 3000 level or above.

TOTAL 124

MINOR: AMERICAN SIGN LANGUAGE 18

REQUIRED FOUNDATION 12

ASL	1101	American Sign Lang I	3
ASL	1102	American Sign Lang II	3
ASL	3101	American Sign Lang III	3
ASL	3102	American Sign Lang IV	3

MINOR ELECTIVES: 6

ASL	2201	Orientation to Deafness	3
ASL	3130	Ethics, Issues & Practice: ASL-English Interpreting	3
ASL	3201	Interpreting in the Arts (may be taken up to three times)	1
CDD	3202	Deaf Culture, History & Folklore	3

CDD	3269	Basic Audiology	3
CDD	4101	Deafness & Society	3

AMERICAN SIGN LANGUAGE (ASL) COURSES

Note: The ASL courses below were previously offered as CDD courses.

ASL 1101 American Sign Language I (3)
Introductory course to American Sign Language includes exposure to and practice with ASL terms, concepts, fingerspelling, linguistic structures and cultural norms; emphasis on vocabulary, visual/gestural/structural components and interactions in the Deaf community. (E, SI, SII)
Equivalent: CDD 1101

[NOTE: In order to fulfill a program's foreign language requirement, ASL 1102, American Sign Language II, must also be taken.]

ASL 1102 American Sign Language II (3)
Introduction to the language and culture of the Deaf community in North America continued. Includes basic vocabulary and grammar in the classroom and attendance at Deaf events outside the classroom. (E, SI, SII)
Prerequisite: ASL 1101
Equivalent: CDD 1102

ASL 2201 Orientation to Deafness (3)
General survey course covering issues related to deafness and the American Deaf Culture, including terminology, anatomy, physiology, history, technology, psychology, sociology and education. (FA).
Equivalent: CDD 2201

ASL 3101 American Sign Language III (3)
Language and culture of the Deaf Community in North America continued. Includes advanced linguistic structures and ASL idioms, and issues affecting this population. Interaction in the Deaf Community required. (FA)
Prerequisite: ASL 1102
Equivalent: CDD 3101

ASL 3102 American Sign Language IV (3)
Language and culture of the Deaf Community in North America continued. Includes advanced linguistic structures and English idioms, and issues affecting this population. Interaction in the Deaf Community required. (SP)
Prerequisite: ASL 3101
Equivalent: CDD 3102

ASL 3130 Ethics, Issues & Practice: ASL-English Interpreting (3)
Covers the genesis and evolution of ASL-English interpreting, legislation, licensure, employment opportunities, working conditions, and professional affiliations; emphasis on strategies for preparing for state screening and national certification. (FA)
Equivalent: CDD 3130

ASL 3201 Interpreting in the Arts (1)
Designed for signers and non-signers of all skill levels to interpret and perform various forms of artistic media, including music, poetry and stories. Students will participate in interpreted performances throughout the term on and off campus where appropriate. This one credit class can be taken up to three times for credit with permission from the instructor.(E,SI)
Equivalent: CDD 3201

COMMUNICATION DISORDERS & DEAFNESS (CDD) COURSES

CDD 2251 Introduction to Speech Language Hearing Disorders (3)

Orientation to the field of speech pathology, audiology and education of the hearing impaired: overview of communication and disorders of communication in individuals of all ages. Consideration of nature, etiology, symptoms, remediation of both organic and neurogenic disorders of speech, language and hearing. (FA, SP, SI)

CDD 2252 Nature of Language for the SLP (3)

An introduction to the nature of language with emphasis on syntactic form and function in linguistic processing. Designed specifically for students intending to major in Speech-Language-Hearing Sciences.

CDD 2254 Phonetics (3)

Study of the sound patterns of language, phonetic transcription, acoustic and anatomic aspects: application to disorders of articulation and dialects. (FA, SP, SI)

Prerequisite: CDD 2251

CDD 2255 Language Development (3)

A study of the linguistic and psychological bases of the speech and hearing processes. The ontogenetic and phylogenic development of speech as a communication tool, implications for the study of speech in psychology, semantics and thought. (FA, SP, SI)

CDD 2260 Anatomy and Physiology of the Ear and Speech Mechanism (3)

Study of the basic structures and functions of the speech and auditory mechanism. (FA, SP, SI)

CDD 3202 Deaf Culture, History and Folklore

A survey of the American Deaf Culture, its heritage, literature, and folklore examining the evolution of the American Deaf Culture and language from its European roots. Includes extensive reading and video analysis (SP)

Prerequisite: CDD 1102

CDD 3256 Disorders of Speech Production and Voice (3)

Study of the nature, etiology, diagnosis and remediation techniques associated with disorders of speech production and voice. Case studies and guided observations in a variety of clinical settings. (FA, SP, SII)

Formerly CDD 3258

Prerequisites: CDD 2251, 2254, 2255, and 2260.

CDD 3257 Disorders of Language and Communication (3)

Study of the nature, etiology, diagnosis and remediation techniques associated with language and communication disorders. Case studies and guided observations in a variety of clinical settings. (FA, SP)

Writing Emphasis Course.

Prerequisites: CDD 2255

CDD 3259 Basic Audiology (3)

An introduction to the theory and practice of pure tone and speech audiometry. Interpretation of audiograms for education, medical and industrial applications. (FA, SII)

Prerequisite: CDD 2260.

CDD 3260 Disorders of Language and Communication (4)

Study of the nature, etiology, diagnosis and remediation techniques associated with language and communication disorders. Case studies and guided observations in a variety of clinical settings.

Writing Emphasis Course.

Prerequisites: CDD 2255

See new course CDD 3257

CDD 3261 Speech Science (3)

Instruction in the anatomy and physiology of the speech production mechanism and the acoustics of speech. Normal speech production is studied through the use of computerized speech measurement equipment. (FA, SI)

Prerequisite: CDD 2260.

CDD 3262 Aural Rehabilitation (3)

An introduction to the impact of hearing loss on speech and language development, communication, education, and psycho-social development. Practical experience developing aural rehabilitation/habilitation programs and with technological aids for the hearing impaired. (SP, SII)

Prerequisite: CDD 3259.

CDD 3267 Hearing Science (3)

Instruction to acoustics and instruction in anatomy, physiology, and psychology of hearing. The detection and analysis of the attributes of sound, by the ear and central auditory system and how these psycho-physical processes apply to speech perception are studied. (FA, SP)

Prerequisite: CDD 3261

CDD 3269 Neuroscience in Speech and Hearing (3)

Study of the neuroanatomical and neurophysiological underpinnings of speech, language and hearing processing abilities. (FA, SI)

Prerequisites: CDD 2260, BIO 2402 and petition.

CDD 3270 Developmental Phonology (3)

Study of the theories of phonological development, phonological processes, application to disorders of articulation and dialects. (FA, SP)

Prerequisites: CDD 2251, 2254, 2260.

CDD 4101 Deafness and Society (3)

This course is designed as a survey of issues related to deafness and the American Deaf Culture, including terminology, etiology, history, technology, psychology, sociology, and education with applications for speech and language development. (SP)

Prerequisite: CDD 1101

CDD 4269 Clinical Professional Issues in Speech-Language Pathology (3)

Seminar for senior level speech language hearing science students related to clinical and professional issues. Collaboration with allied professional and clinical supervision also are addressed. (FA)

Prerequisite: CDD 3260, 3262, 3267, 3270

CDD 4272 Capstone for Speech Language Hearing Sciences (3)

Capstone course for speech language hearing sciences program. Synthesis of theoretical and clinical knowledge, skills, values, and dispositions of the student preparing for enrollment in a graduate program or for entry into the workplace. (SP)

Prerequisite: CDD 4269, permission from program advisor

CDD 4275 Pre-Professional Speech-Language Pathology/ Audiology: Preparing for a Career (4)

Capstone course in speech language hearing science program. Synthesis of theoretical and clinical knowledge, skills, and dispositions of the student preparing for enrollment in a graduate program of speech language pathology or audiology in the pursuit of lifelong learning.

Prerequisites: Completion of all General Education and Additional Liberal Arts requirements and all academic major course work. CDD 4269

Corequisite: CDD 4274

See new course CDD 4272

New Jersey Center for Science, Technology and Mathematics

Main Offices for NJCSTM are located in the STEM Building Suite 513.

Phone (908) 737-7200, or Email: njcste@kean.edu

Dr. Keith A. Bostian, Dean

Dr. Michael Tocci, Associate Dean

Ms. Marianne Gass, Assistant to the Dean

Ms. Judy April, Coordinator of Student Services and Recruitment

Faculty: Baldwin, Coniglio, Farnum, Hayes, Joiner, Merritt, Ramanathan, Sun

The New Jersey Center for Science, Technology and Mathematics (NJCSTM) has offered the Bachelor of Science in Science & Technology degree since 2004. The B.S. Science & Technology degree has multiple tracks: (1) the scientist-education track dedicated to training high school science and mathematics teachers (with options in mathematics, chemistry and biology); (2) the scientist-research track dedicated to training scientific and technical professionals for industry or academia (with options in computational science & engineering and biotechnology); (3) the biomedical scientist track for students wishing to go onto graduate training in medicine and related fields; and (4) the scientist-engineer track in partnership with New Jersey Institute of Technology Newark College of Engineering (students may earn an accelerated bachelors and masters in as little as five years as they start taking engineering coursework at NJIT midway through their undergraduate studies).

Students must make a formal application to be considered for admission to any of the NJCSTM academic programs (contact NJCSTM for specific admission criteria and application deadlines) whether they intend to be considered for admission as a first time college freshmen or as a transfer student from another major or university.

Students admitted to NJCSTM progress as a cohort through their major coursework from their initial semester. The NJCSTM academic programs are founded on a central core curriculum for the freshmen and sophomore cohorts. The unique core curriculum integrates science and mathematics by linking freshmen chemistry with calculus and computational modeling, and physics and biology linked with linear algebra and probability for upperclassmen, whereby they approach biology, chemistry and physics through the analytical language of mathematics. Applying mathematics to the solution of scientific problems is emphasized and students extend their learning in the laboratory portion of the mathematics courses through the use of computational software to study complex systems and their behavior. Students then continue with advanced coursework concentrating in the specific area of study for their track option.

Students in the scientist-education and scientist-research tracks spend five years in NJCSTM as the fifth year of the program spans twelve months of graduate coursework and

culminates in the Master's degree (either the M.S. in Science and Technology or the M.A. in Instruction and Curriculum, option in Science and Technology). Requirements for certification as a teacher in the State of New Jersey require passage of Praxis I (Core Academic Skills Test) and Praxis II examinations given by ETS. Students in NJCSTM must attain a passing score on the Praxis I as a requirement for pre-professional field placement (junior level). Additionally they must pass the appropriate Praxis II exam in the subject area they intend to teach prior to advancing to student teaching at the graduate level.

Students in the biomedicine track are prepared to graduate at the end of four years with a rigorous science content bachelor's degree that will enable them to apply to the professional training school of their choosing. The majority of students in the biomedicine option will apply to graduate degree programs in medicine, biomedicine or physical therapy.

Students in the engineering science scholars program who meet all requirements while in college are awarded the B.S. in Science & Technology /Engineering Science degree from NJCSTM at Kean University then complete their Master's degree in The College of Engineering at NJIT in as little as one year. The four years of undergraduate study focus on the scientific basis for modern engineering with coursework in math, physics, chemistry, biology and computer science alongside engineering courses, selected with advisement of both Kean NJCSTM and NJIT faculty advisors. Available engineering options include specializations in: mechanical, industrial, electrical, structural, construction, transportation, chemical, pharmaceutical and biomedical engineering.

For information regarding College/program mission and student learning outcomes please see <http://www.kean.edu/njcstm>

COURSE SCHEDULING FREQUENCIES

At the end of the course description is a code in parenthesis that indicates the frequency the course is offered to assist students in planning their registration.

Key:

E = Every Semester

FA = Every Fall

SP = Every Spring

FE = Fall, Even Years

SE = Spring, Even Years

FO = Fall, Odd Years

SO = Spring Odd Years

E3 = Every Third Semester

WS = Every Winter Session

SSI = Every Summer Session I

SSII = Every Summer Session II

SSIE = Summer Session I, Even Years

SSIO = Summer Session I, Odd Years

SSIIIE = Summer Session II, Even Years

SSIIIO = Summer Session II, Odd Years

B.S. SCIENCE AND TECHNOLOGY

OPTION: BIOLOGY TEACHER TRACK

GENERAL EDUCATION 37

FOUNDATIONS REQUIREMENTS 14

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

*ENG 1030 College Composition 3

STME 1403 Math & Computational Methods of Science I 4

*COMM 1402 Speech Communication as Critical Citizenship 3

GE 2024 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 23

Humanities 6

*ENG 2403 World Literature 3

Select one course:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 6

*HIST 1062 Worlds of History 3

*PSY 1000 General Psychology 3

Science & Mathematics 8

*STME 1603 Math & Computational Methods of Science II 4

*STME 1401 Chemical Systems I 4

Major/GE Capstone 3

STME 4610 Science & Technology Seminar (writing emphasis) 3

*Required Distribution Course

ADDITIONAL REQUIREMENTS 22

ES 1000 Observing the Earth 3

ID 1225 Issues of Contemporary Health 3

PSY 2110 Psych. Adolescence 3

STME 2601 Living Systems I 4

STME 2603 Probabilistic Methods in Science 4

STME 2401 Physical Systems I 4

STME 1903 Research Methods-RFI 1

MAJOR REQUIREMENTS 45-49

PROGRAM CORE REQUIREMENTS 8

STME 1601 Chemical Systems II 4

STME 2602 Living Systems II 4

PROGRAM OPTION REQUIREMENTS 37-41

STME 2681 Organic Chemistry I Honors Lecture 3

STME 2683 Organic Chemistry I Honors Lab 2

STME 2682 Organic Chemistry II Honors Lecture 3

BIO 2500 Principles of Botany 4

BIO 3305 Principles of Microbiology 4

BIO 3400 Zoology Form & Function 4

BIO 3403 Anatomy & Physiology I 4

BIO 3614 Principles of Ecology (writing emphasis) 4

BIO 3709 Genetics 4

BIO 4105 Essentials of Biochemistry 4

OR

STME 3401 Biochemistry Honors I 4

STME 3610 Current Issues 1

OR

STME 2903 Research Experience-RFI 2

STME 3903 Advanced Research Experience-RFI 3

FREE ELECTIVES 3

Select one course with advisement

PROFESSIONAL EDUCATION REQUIREMENTS 18

EMSE 2801 Intro Field Exp Subject Area K-12 3

EMSE 3230 Science Education K-12 3

EDUC 3000 Curriculum, Evaluation & the Learner 3

EMSE 3801 Field Experience in Instruction in Subject Areas K-12 2

EMSE 3903 Teaching English Language Learners 1

EMSE 5315 Intro Language Arts & Reading in Teaching Content Areas 3

EMSE 5320 Computers in the School Curriculum 3

TOTAL 125-129

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR GE 3000 (transfers entering with 30 credits or more).

OR GE 3000 (transfers entering with 30 credits or more).

ADDITIONAL GRADUATE REQUIREMENTS TO COMPLETE

MA INSTRUCTION/CURRICULUM (Science & Technology/Biology Option)

INSTRUCTION & CURRICULUM 24

STME/EMSE 5330 Science Teaching Methods & Practice 3

EMSE 5564 Professional Internship 6

EMSE 5561 Foundations of Education 3

EMSE 5031 Action Research: Integrative Seminar 3

STME/EMSE 5032 Research Methods in Science Education 3

STME 5610 Advanced Seminar in Science & Technology 3

SPED 5024 Inclusive Education 3

GRADUATE EDUCATION ELECTIVES 6

Selected with advisement

B.S. SCIENCE AND TECHNOLOGY

OPTION: CHEMISTRY TEACHER TRACK

GENERAL EDUCATION 37

FOUNDATIONS REQUIREMENTS 14

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

*ENG 1030 College Composition 3

*STME 1403 Math & Computational Methods of Science I 4

*COMM 1402 Speech Communication as Critical Citizenship 3

GE 2024 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 23

Humanities 6

*ENG 2403 World Literature 3

Select one course:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 6

*HIST 1062 Worlds of History 3

*PSY 1000 General Psychology 3

Science & Mathematics 8

*STME 1603 Math & Computational Methods of Science II 4

*STME 1401 Chemical Systems I 4

Major/GE Capstone 3

*STME 4610 Science & Technology Seminar (writing emphasis) 3

*Required Distribution Course

ADDITIONAL REQUIREMENTS 22

ES 1000 Observing the Earth 3

ID 1225 Issues of Contemporary Health 3

PSY 2110 Psych. Adolescence 3

STME 2601 Living Systems I 4

STME 2401 Physical Systems I 4

STME 2603 Probabilistic Methods in Science 4

STME 1903 Research Methods-RFI 1

MAJOR REQUIREMENTS 49

PROGRAM CORE REQUIREMENTS 22

STME 1601 Chemical Systems II 4

STME 2402 Physical Systems II 4

STME 2403 Math & Computational Methods of Science III 4

STME 2681 Organic Chemistry I Honors Lecture 3

STME 2683 Organic Chemistry I Honors Lab 2

STME 2682 Organic Chemistry II Honors Lecture 3

STME 2684 Organic Chemistry
Honors II Lab 2

**PROGRAM OPTION
REQUIREMENTS 23-27**

CHEM 2283 Quantitative Analysis 4
CHEM 2491 Inorganic Chemistry 3
CHEM 3284 Instrumental Methods of
Analysis (writing emphasis) 4
CHEM 3381 Physical Chemistry Lecture I 3
MATH 3415 Calculus III 3
PHYS 2097 Physics III 4
STME 3610 Current Issues 1

OR

STME 2903 Research Experience-RFI 2
STME 3903 Advanced Research
Experience-RFI 3

FREE ELECTIVES 3

Select with advisement (At least 50%
at 3000-4000 level)

**PROFESSIONAL EDUCATION
REQUIREMENTS 18**

EMSE 2801 Intro Field Exp Subject
Area K-12 3
EMSE 3230 Science Education K-12 3
EDUC 3000 Curriculum, Evaluation
& the Learner 3
EMSE 3801 Field Experience in Instruction
in Subject Areas K-12 2
EMSE 3903 Teaching English Language
Learners 1
EMSE 5315 Intro Language Arts & Reading
in Teaching Content Areas 3
EMSE 5320 Computers in the School
Curriculum 3

TOTAL 125-129

¹ University Requirement for Graduation for all
undergraduate students that must be satisfied in
one of two ways: Complete GE 1000 (all fresh-
men and transfers entering with 0-29 credits)
OR GE 3000 (transfers entering with 30 credits
or more).

**ADDITIONAL GRADUATE
REQUIREMENTS TO COMPLETE**

**MA INSTRUCTION/CURRICULUM
(Science & Technology/Chemistry
Option)**

INSTRUCTION & CURRICULUM 24

EMSE/STME 5330 Science Teaching
Methods & Practice 3
EMSE 5564 Professional Internship 6
EMSE 5561 Foundations of Education 3
EMSE 5031 Action Research: Integrative
Seminar 3
STME/EMSE 5032 Research Methods in
Science Education 3
STME 5610 Advanced Seminar in
Science & Technology 3
SPED 5024 Inclusive Education 3

GRADUATE EDUCATION ELECTIVES 6

Selected with advisement

**B.S. SCIENCE AND
TECHNOLOGY**

**OPTION: MATHEMATICS
TEACHER TRACK**

GENERAL EDUCATION 37

FOUNDATIONS REQUIREMENTS 14

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1
*ENG 1030 College Composition 3
STME 1403 Math & Computational
Methods of Science I 4
*COMM 1402 Speech Communication
as Critical Citizenship 3
GE 2024 Research & Technology 3

**DISCIPLINARY/INTERDISCIPLINARY
DISTRIBUTION REQUIREMENTS 23**

Humanities 6
*ENG 2403 World Literature 3
Select one course:
Fine Arts or Art History 3
Philosophy or Religion 3
Foreign Languages 3
Music or Theatre 3
Interdisciplinary 3
Social Sciences 6
*HIST 1062 Worlds of History 3
*PSY 1000 General Psychology 3
Science & Mathematics 8
*STME 1603 Math & Computational
Methods of Science II 4
*STME 1401 Chemical Systems I 4
Major/GE Capstone 3
*STME 4610 Science & Technology
Seminar (writing emphasis) 3

***Required Distribution Course**

ADDITIONAL REQUIREMENTS 19

ID 1225 Issues of Contemporary
Health 3
PSY 2110 Psych. Adolescence 3
STME 2401 Physical Systems 4
STME 2603 Probabilistic Methods
in Science 4
STME 2601 Living Systems 4
STME 1903 Research Methods-RFI 1

MAJOR REQUIREMENTS 41

PROGRAM CORE REQUIREMENTS 12

STME 2403 Math & Computational
Methods of Science III 4
Select two courses from below:
STME 1601 Chemical Systems II 4
STME 2602 Living Systems II 4
STME 2402 Physical Systems II 4

**PROGRAM OPTION
REQUIREMENTS 23-27**

MATH 3110 Introduction to Proofs 3

MATH 3225 Computational Methods in
Matrix & Linear Algebra II 3

MATH 3342 Euclidean & Non-Euclidian
Geometry 3

MATH 3415 Calculus III 3

MATH 3455 Differential Equations 3

STME/MATH 4805 Mathematical
Modeling with Applications 3

MATH 3891 History of Mathematics
(writing emphasis) 3

OR

HIST 3852 History of Science 3

STME 3610 Current Issues 1

OR

STME 2903 Research Experience-RFI 2

STME 3903 Advanced Research
Experience-RFI 3

MAJOR ELECTIVES 2-6

Select with advisement

FREE ELECTIVES 9

At least 50% of free electives must be
at 3000-4000 level

**PROFESSIONAL EDUCATION
REQUIREMENTS 18**

EMSE 2801 Intro Field Exp Subject
Area K-12 3
EMSE 3230 Math Education K-12 3
EDUC 3000 Curriculum, Evaluation
& the Learner 3
EMSE 3801 Field Experience in Instruction
in Subject Areas K-12 2
EMSE 3903 Teaching English Language
Learners 1
EMSE 5315 Intro Language Arts & Reading
in Teaching Content Areas 3
EMSE 5320 Computers in the School
Curriculum 3

TOTAL 124

¹ University Requirement for Graduation for all
undergraduate students that must be satisfied in
one of two ways: Complete GE 1000 (all fresh-
men and transfers entering with 0-29 credits)
OR GE 3000 (transfers entering with 30 credits
or more).

**ADDITIONAL GRADUATE
REQUIREMENTS TO COMPLETE**

**MA INSTRUCTION/CURRICULUM
(Science & Technology/Mathematics
Option)**

INSTRUCTION & CURRICULUM 24

EMSE 5323 Current Theory & Practice
in Teaching Mathematics 3
EMSE 5564 Professional Internship 6
EMSE 5561 Foundations of Education 3
EMSE 5031 Action Research: Integrative
Seminar 3
STME/MATH 5700 Research Methods
in Math Education 3
STME 5610 Advanced Seminar in
Science & Technology 3

SPED 5024 Inclusive Education 3

GRADUATE EDUCATION ELECTIVES 6

Selected with advisement

B.S. SCIENCE AND TECHNOLOGY

OPTION: COMPUTATIONAL SCIENCE AND ENGINEERING RESEARCH TRACK

GENERAL EDUCATION 37

FOUNDATIONS REQUIREMENTS 14

GE 1000 Transition to Kean¹ 1

OR

GE 3000 Transfer Transitions¹ 1

*ENG 1030 College Composition 3

STME 1403 Math & Computational Methods of Science I 4

*COMM 1402 Speech Communication as Critical Citizenship 3

GE 2024 Research & Technology 3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 23

Humanities 6

*ENG 2403 World Literature 3

Select one course:

Fine Arts or Art History 3

Philosophy or Religion 3

Foreign Languages 3

Music or Theatre 3

Interdisciplinary 3

Social Sciences 6

*HIST 1062 Worlds of History 3

Select one course:

Economics or Geography 3

Psychology 3

Sociology or Anthropology 3

Political Science 3

Interdisciplinary 3

Science & Mathematics 8

*STME 1603 Math & Computational Methods of Science II 4

*STME 1401 Chemical Systems I 4

Major/GE Capstone 3

STME 4610 Science & Technology Seminar (writing emphasis) 3

*Required Distribution Course

ADDITIONAL REQUIREMENTS 13

STME 2401 Physical Systems 4

STME 2601 Living Systems I 4

STME 2603 Probabilistic Methods in Science 4

STME 1903 Research Methods-RFI 1

MAJOR REQUIREMENTS 62-65

PROGRAM CORE REQUIREMENTS 28

STME 1605 Intro Programming 4

STME 2403 Math & Computational Methods of Science III 4

CPS 2231 Computer Organization & Programming 4

CPS 2232 Data Structures & Algorithm Analysis 4

MATH 2110 Discrete Structures 3

CPS 3962 Object Oriented Analysis and Design 3

OR

CPS 4301 Software Engineering I (writing emphasis) 3

CPS 5965 High Performance Computing 3

OR

STME 5630 Modeling and Simulation of Dynamic Systems 3

STME 5410 Modeling and Simulation of Continuous Systems 3

OR

STME 5631 Data Analysis and Visualization 3

PROGRAM TRACK REQUIREMENTS 34-37

Select courses based on track

APPLIED MATH TRACK 34

STME 2402 Physical Systems II 4

MATH 3225 Computational Methods Linear Algebra II 3

MATH 3415 Calculus III 3

MATH 3455 Differential Equations 3

MATH 3940 Numerical Analysis 3

MATH 4805 Math Modeling with Applications 3

STME 1601 Chemical Systems II 4

OR

STME 2602 Living Systems II 4

STME 3610 Current Issues 1

OR

STME 2903 Research Experience-RFI 2

STME 3903 Advanced Research Experience-RFI 3

MAJOR ELECTIVES - APPLIED MATH TRACK 5-9

Select major elective courses with advisement

BIOINFORMATICS TRACK 34

STME 1601 Chemical Systems II 4

STME 2602 Living Systems II 4

STME 2681 Organic Chemistry I Honors Lecture 3

STME 2683 Organic Chemistry I Honors Lab 2

BIO 3709 Genetics 4

BIO 4105 Essentials of Biochemistry 4

OR

STME 3401 Biochemistry Honors I 4

BIO 3305 Principles of Microbiology 4

BIO 4700 Molecular Genetics 4

STME 3610 Current Issues 1

OR

STME 2903 Research Experience-RFI 2

STME 3903 Advanced Research Experience-RFI 3

MAJOR ELECTIVES - BIOINFORMATICS TRACK 0-4

Select major elective courses with advisement

PHYSICS TRACK 37

STME 1601 Chemical Systems II 4

STME 2402 Physical Systems 4

PHYS 2907 Physics III 4

PHYS 4592 Modern Physics 4

PHYS 4593 Landmarks in 20th Century Physics 3

OR

PHYS 4901 Independent Research in Physics 3

MATH 3940 Numerical Analysis 3

MATH 4805 Math Modeling with Applications 3

MATH 3415 Calculus III 3

MATH 3455 Differential Equations 3

STME 3610 Current Issues 1

OR

STME 2903 Research Experience-RFI 2

STME 3903 Advanced Research Experience-RFI 3

MAJOR ELECTIVES - PHYSICS TRACK 0-4

Select major elective courses with advisement

FREE ELECTIVES - ALL TRACKS 9-12

Select with advisement, at least 50% of free electives must be at 3000-4000 level

TOTAL 124

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

ADDITIONAL GRADUATE REQUIREMENTS TO COMPLETE

MS SCIENCE & TECHNOLOGY (Computational Mathematics Option)

MATHEMATICS & COMPUTER SCIENCE COURSEWORK 18

STME 5710/MATH 5410 Applied Partial Differential Equations 3

OR

STME/MATH 5630 Modeling & Simulation of Dynamical Systems 3

MATH 5965 High Performance Computing 3

OR

STME/MATH 5631 Data Analysis & Visualization 3

ID 5800 Thesis 6

STME 5610 Advanced Seminar in Science & Technology 3

Select one of the following:		
CPS	5921 Knowledge Discovery & Data Mining	3
CPS	5970 Web Programming	3
MATH	5400 Principles of Mathematical Analysis	3
MATH	5420 Applied Complex Variables	3
ADDITIONAL REQUIREMENTS		3
STME	5103 Scientific Writing	3
GRADUATE ELECTIVES		9
Selected with advisement		

B.S. SCIENCE AND TECHNOLOGY

OPTION: MOLECULAR BIOLOGY/BIOTECHNOLOGY RESEARCH TRACK

GENERAL EDUCATION		37
FOUNDATIONS REQUIREMENTS		14
GE	1000 Transition to Kean ¹	1
OR		
GE	3000 Transfer Transitions ¹	1
*ENG	1030 College Composition	3
*STME	1403 Math & Computational Methods of Science I	4
*COMM	1402 Speech Communication as Critical Citizenship	3
GE	2024 Research & Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 23

<i>Humanities</i>		6
*ENG	2403 World Literature	3
Select one course		
Fine Arts or Art History		3
Philosophy or Religion		3
Foreign Languages		3
Music or Theatre		3
Interdisciplinary		3
<i>Social Sciences 6</i>		6
*HIST	1062 Worlds of History	3
Select one course		
Economics or Geography		3
Psychology		3
Sociology or Anthropology		3
Interdisciplinary		3
Political Science		3
<i>Science & Mathematics</i>		8
*STME	1603 Math & Computational Methods of Science II	4
*STME	1401 Chemical Systems I	4
<i>Major/GE Capstone</i>		3
*STME	4610 Science & Technology Seminar (writing emphasis)	3
<i>*Required Distribution Course</i>		

ADDITIONAL REQUIREMENTS		13
STME	2601 Living Systems I	4
STME	2401 Physical Systems	4

STME	2603 Probabilistic Methods in Science	4
STME	1903 Research Methods-RFI	1

MAJOR REQUIREMENTS 62-63

PROGRAM CORE REQUIREMENTS 18

STME	1601 Chemical Systems II	4
STME	2602 Living Systems II	4
STME	2681 Organic Chemistry I Honors Lecture	3
STME	2683 Organic Chemistry I Honors Lab	2
STME	2682 Organic Chemistry II Honors Lecture	3
STME	2684 Organic Chemistry Honors II Lab	2

PROGRAM OPTION REQUIREMENTS 41-45

CHEM	2283 Quantitative Analysis	4
CHEM	3284 Instrumental Methods of Analysis (writing emphasis)	4
BIO	3403 Anatomy & Physiology I	4
BIO	3305 Principles of Microbiology	4
BIO	3709 Genetics	4
BIO	3820 Basic Tissue Culture	4
BIO	4105 Essentials of Biochemistry	4
OR		
STME	3401 Biochemistry Honors I	4
BIO	4700 Molecular Genetics	4
STME	5020 Ethics in Biotechnology	1
STME	5103 Scientific Writing & Presentation	3
STME	1605 Intro to Programming	4
STME	3610 Current Issues	1
OR		
STME	2903 Research Experience-RFI	2
STME	3903 Advanced Research Experience-RFI	3

MAJOR ELECTIVES 0-3

Select major elective courses with advisement in STME, BIO or CHEM at the 3000 level or higher

FREE ELECTIVES 12

TOTAL 124-125

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

ADDITIONAL GRADUATE REQUIREMENTS TO COMPLETE

MS SCIENCE & TECHNOLOGY (Biotechnology Option)

BIOTECHNOLOGY COURSEWORK 21

BIO	5700 Molecular Techniques	3
OR		
STME	5140 Cellular Techniques	3
STME	5010 Molecular Cell Biology I	3

STME	5240 Molecular Cell Biology II	3
STME	5510 Biostats & Comp Analy	3
OR		
MATH	5505 Applied Stats	3
STME	5610 Advanced Seminar in Science & Technology	3

Student Does Either Plan A or Plan B:

Plan A Internship/Externship:

STME	5410 Biotechnology Internship/Externship	6
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OR

STME 5411 & STME 5412 Biotech Intern/Externship	3,3
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OR

STME 5413 & STME 5414 & STME 5415 Intern/Externship	2,2,2
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Plan B Practicum:

Approved Graduate Lab Course	3
STME 5400 Biotechnology Research Review	3

GRADUATE STME/BIO/CHEM/MATH ELECTIVES 9-12

Select 3 courses with advisement

B.S. SCIENCE AND TECHNOLOGY

OPTION: BIOMEDICINE

GENERAL EDUCATION		37
FOUNDATIONS REQUIREMENTS		14
GE	1000 Transition to Kean ¹	1
OR		
GE	3000 Transfer Transitions ¹	1
*ENG	1030 College Composition	3
STME	1403 Math & Computational Methods of Science I	4
*COMM	1402 Speech Communication as Critical Citizenship	3
GE	2024 Research & Technology	3

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 23

<i>Humanities</i>		6
*ENG	2403 World Literature	3
Select one course:		
Fine Arts or Art History		3
Philosophy or Religion		3
Foreign Languages		3
Music or Theatre		3
Interdisciplinary		3
<i>Social Sciences</i>		6
*HIST	1062 Worlds of History	3
Select one course:		
Psychology		3
Economics or Geography		3
Political Science		3
Sociology or Anthropology		3
Interdisciplinary		3
<i>Science & Mathematics</i>		8

*STME 1603	Math & Computational Methods of Science II	4
*STME 1401	Chemical Systems I	4
	<i>Major/GE Capstone</i>	3
*STME 4610	Science & Technology Seminar (writing emphasis)	3
	<i>*Required Distribution Course</i>	

ADDITIONAL REQUIREMENTS		19
Foreign Language Course		3
Foreign Language Course		3
STME	2601 Living Systems I	4
STME	2401 Physical Systems	4
STME	2603 Probabilistic Methods in Science	4
STME	1903 Research Methods-RFI	1

MAJOR REQUIREMENTS 62-63

PROGRAM CORE REQUIREMENTS				22
STME	2602	Living Systems II		4
STME	1601	Chemical Systems II		4
STME	2402	Physical Systems II		4
STME	2681	Organic Chemistry I Honors Lecture		3
STME	2683	Organic Chemistry I Honors Lab		2
STME	2682	Organic Chemistry II Honors Lecture		3
STME	2684	Organic Chemistry Honors II Lab		2

PROGRAM OPTION REQUIREMENTS 37-41

BIO 3403	Anatomy & Physiology I	4
BIO 3404	Anatomy & Physiology II	4
BIO 3405	Basic Gross Anatomy	4
BIO 3305	Principles of Microbiology	4
BIO 3709	Genetics	4
BIO 4105	Essentials of Biochemistry	4

OR

STME 3401	Biochemistry Honors I	4
BIO 4315	Immunology	4
BIO 4310	Virology	4
STME 4410	Systems Neuroscience	3
STME 4611	NJCSTM Service Learning (taken with STME 4610)	1
STME 3610	Current Issues	1

OR

STME 2903	Research Experience-RFI	2
STME 3903	Advanced Research Experience-RFI	3

MAJOR ELECTIVES 0-3

Select major elective courses with advisement in STME, BIO or CHEM at the 3000 level or higher

FREE ELECTIVES 6

Select with advisement courses in ecology, ethics & issues courses, history of science/medicine, medical anthropology, human rights/genocide, sustainability, sociology (strongly encouraged)

TOTAL 124-125

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

B.S. SCIENCE AND TECHNOLOGY

OPTION: NJIT ENGINEERING SCIENCE

GENERAL EDUCATION 34

FOUNDATIONS REQUIREMENTS 14

GE 1000	Transition to Kean ¹	1
OR		
GE 3000	Transfer Transitions ¹	1
ENG 1030	College Composition	3
STME 1403	Math & Computational Methods of Science I	4
COMM 1402	Speech Communication as Critical Citizenship	3
GE 2024	Research & Technology	3

¹ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) **OR** GE 3000 (transfers entering with 30 credits or more).

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS 20

Humanities	6
*ENG 2403 World Literature	3
Select one course:	
Fine Arts or Art History	3
Philosophy or Religion	3
Foreign Languages	3
Music or Theatre	3
Interdisciplinary	3
Social Sciences	6
*HIST 1062 Worlds of History	3

STME 1603	Math & Computational Methods of Science II	4
STME 1401	Chemical Systems I	4
	<i>*Required Distribution Course</i>	

ADDITIONAL REQUIREMENTS 15-19

MATH 3451	Calculus III	3
MATH 3452	Calculus IV	3
MATH 3455	Differential Equations	3
CPS 2231	Computer Organization & Programming	4
CPS 2232	Data Structures & Algorithm Analysis	4
OR		
STME 2681	Organic Chemistry I Honors Lecture	3

STME 2682	Organic Chemistry II Honors Lecture	3
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OR

STME 2681	Organic Chemistry I Honors Lecture	3
STME 2683	Organic Chemistry I Honors Lab	2

AND

CHEM 3381	Physical Chemistry Lecture I	3
CHEM 3383	Physical Chemistry Lab I	2

MAJOR REQUIREMENTS 66-71

STME CORE 30

STME 2610	Current Issues Sci & Tech I	1
STME 3610	Current Issues Sci & Tech II	1
STME 2401	Physical Systems	4
STME 2402	Physical Systems II	4
PHYS 2097	Physics III	4
STME 2403	Math & Computational Methods of Science III	4
STME 2603	Probabilistic Methods of Science	4
STME 1601	Chemical Systems II	4
STME 2601	Living Systems	4

Major/GE Capstone

STME 4610	Science & Technology Seminar	3
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ENGINEERING SCIENCE MAJOR COURSEWORK 33-39

(Select with advisement based on track. Courses may be taken at NJIT. Sum of Core and Concentration may not be greater than 38 credits).

ENGINEERING SCIENCE CORE 14-17

(Select based on track, see below)

CONCENTRATION ELECTIVES 19-24

(Select based on track, see below)

Track specific course listings

(ALL COURSES BELOW BY TRACK ARE NJIT COURSES TAKEN AT NJIT UNLESS OTHERWISE SPECIFIED)

GENERAL ENGINEERING SCIENCE (33)

ENGINEERING SCIENCE CORE (14)

MECH 320	Statics & Strength of Materials	3
MECH 236	Dynamics	2
ECE 231	Circuits & Systems I	3
ME 304	Fluid Dynamics	3
ME 311	Thermodynamics	3

CONCENTRATION COURSES (19)

Selected with advisement, 6 credits must be at graduate level

MECHANICAL ENGINEERING (37)

ENGINEERING SCIENCE CORE (17)

MECH 236	Dynamics	2
MECH 237	Strength of Materials	3
ME 311	Thermodynamics I	3

ME	304	Fluid Mechanics	3
ME	315	Stress Analysis	3
MECH	235	Statics	3

CONCENTRATION COURSES (20)

ME	231	Kinematics of Machinery	3
ME	407	Heat Transfer	3
ME	430	Intro to Computer-Aided Design	3
ME	343	Mechanical Laboratory I	3
ME	215	Engineering Materials & Processes	2

Two additional graduate level courses selected with advisement

INDUSTRIAL ENGINEERING (38)

ENGINEERING SCIENCE CORE (14)

MECH	236	Dynamics	2
MECH	320	Statics & Strength of Materials	3
ME	311	Thermodynamics I	3
ME	304	Fluid Mechanics	3
ECE	231	Circuits & Systems I	3

CONCENTRATION COURSES (24)

IE		Work Measurements & Standards	3
IE	355	Human Factors	3
IE	439	Deterministic Models in Operations Research	3
IE	440	Stochastic Models in Operations Research	3
IE	224	Production Processes	3
IE	334	Engineering Economy & Capital Investment	3
IE	604	Advanced Engineering Statistics	3
IE	618	Engineering Cost 7 Production Economics	3

ELECTRICAL ENGINEERING (36)

ENGINEERING SCIENCE CORE (15)

ECE	271	Electronic Circuits I	3
MECH	320	Statics & Strength of Materials	3
ECE	231	Circuits & systems I	3
ECE	232	Circuits & systems II	3
ECE	251	Digital Design	3

CONCENTRATION COURSES (21)

ECE	252	Microprocessor	3
ECE	333	Signals and Systems	3
ECE	372	Electronic Circuits II	3
ECE	321	Random Signals & Noise	3
ECE	361	Electromagnetic Fields I	3
ECE	601	Linear Systems	3
ECE		Random Signal Analysis	3

STRUCTURAL ENGINEERING (38)

ENGINEERING SCIENCE CORE (15)

MECH	235	Statics	3
MECH	236	Dynamics	2
MECH	237	Strength of Materials	3

CE	320	Fluid Mechanics	3
CE	341	Soil Mechanics	3
CE	341A	Soil Mechanics Lab	1

CONCENTRATION COURSES (21)

CE	210	Construction Materials & Procedures	3
CE	332	Structural Analysis	3
CE	333	Reinforced Concrete Design	3
CE	432	Steel Design	3
CE	443	Foundation Design	3
CE	639	Applied Finite Elements	3
CE	636	Stability of Structures	3

CONSTRUCTION ENGINEERING (34)

ENGINEERING SCIENCE CORE (15)

MECH	235	Statics	3
MECH	236	Dynamics	2
MECH	237	Strength of Materials	3
CE	320	Fluid Mechanics	3
CE	341	Soil Mechanics	3
CE	341	Soil Mechanics Lab	1

CONCENTRATION COURSES (19)

CE	200	Surveying	3
CE	200A	Surveying Lab	1
CE	210	Construction Materials & Procedures	3
ENE	262	Environmental Engineering	3
CE	350	Transportation Engineering	3
CE	610	Construction Management	3
CE	611	Project Planning & Control	3

TRANSPORTATION ENGINEERING (34)

ENGINEERING SCIENCE CORE (15)

MECH	235	Statics	3
MECH	236	Dynamics	2
MECH	237	Strength of Materials	3
CE	320	Fluid Mechanics	4
CE	321	Water Resources Engineering	3

CONCENTRATION COURSES (19)

CE	200	Surveying	3
CE	200A	Surveying Lab	1
CE	210	Construction Materials & Procedures	3
ENE	262	Environmental Engineering	3
CE	350	Transportation Engineering	3
TAN	615	Traffic Study & Capacity	3
TRAN	650	Systems Engineering	3

CHEMICAL ENGINEERING (36)

ENGINEERING SCIENCE CORE (14)

MECH	320	Statics & Strength of Materials	3
ChE	210	Chemical Process Calculations I	2
ChE	210W	Chemical Process Calculations I Workshop	0
ChE	230	Chemical Engineering Thermodynamics I	3

ChE	230W	Chemical Engineering Thermodynamics I Workshop	0
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ChE	240	Chemical Process Calculations II	3
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ChE	240W	Chemical Process Calculations II Workshop	0
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ChE	260	Fluid Flow	3
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CONCENTRATION COURSES (22)

ChE		Chemical Engineering Thermodynamics II	3
ChE		Kinetics & Reactor Design	3
ChE		Separation Processes I	3
ChE		Heat & Mass Transfer	4
ChE		Chemical Engineering Lab I	3

Two additional graduate level courses selected with advisement

Students should take 1 semester each of organic & physical chemistry with lab as part of Kean coursework

PHARMACEUTICAL ENGINEERING (36)

ENGINEERING SCIENCE CORE (14)

MECH	320	Statics & Strength of Materials	3
ChE	210	Chemical Process Calculations I	2
ChE	210W	Chemical Process Calculations I Workshop	0
ChE	230	Chemical Engineering Thermodynamics I	3
ChE	230W	Chemical Engineering Thermodynamics I Workshop	0
ChE	240	Chemical Process Calculations II	3
ChE	240W	Chemical Process Calculations II Workshop	0
ChE		Fluid Flow	3

CONCENTRATION COURSES (22)

ChE		Chemical Engineering Thermodynamics II	3
ChE		Kinetics & Reactor Design	3
ChE		Separation Processes I	3
ChE		Heat & Mass Transfer	4
ChE		Chemical Engineering Lab I	3
PhEn	601	Principals of Pharmaceutical Engineering	3
PhEn	604	Validation & Regulatory Issues in Pharmaceutical Industry	3

Students should take 1 semester each of organic & physical chemistry as part of Kean coursework

BIOMEDICAL ENGINEERING (38)

ENGINEERING SCIENCE CORE (15)

BME	302	Fundamentals of Biomechanics	3
BME	304	Fundamentals of Biomaterials	3
BME	301	Fundamentals of Bioelectronics	3

BME	351	Biofluid Dynamics	3
ME	311	Thermodynamics	

CONCENTRATION COURSES (23)

BIO	3403	Anatomy & Physiology I (Kean Course)	4
BIO	3404	Anatomy & Physiology II (Kean Course)	4
BME	310	Biomedical Computing	3

Two additional undergraduate BME courses selected with advisement

Two additional graduate level BMS courses selected with advisement

Students should take two semesters of organic chemistry as part of Kean coursework

FREE ELECTIVES 0-9

SCIENCE, TECHNOLOGY AND MATHEMATICS EDUCATION COURSES

INTRODUCTORY

STME 1610 Integrated Team Project (1)
Examination of the scientific method through group-oriented research projects. Approved projects will utilize concepts and techniques taught in NJCSTM science and mathematics classes taught concurrently.
Prerequisite: Freshman standing in the Five Year NJCSTM program.

STME 1401 Chemical Systems I (4)
A thorough discussion of the fundamental principles of chemistry including atomic structure, ionic and covalent bonding, chemical calculations, thermodynamics and gases. Mathematical relationships and problem-solving are stressed. Integrated laboratory will include advanced versions of classical experiments and an introduction to modern instrumentation. (3 hr. lecture/3 hr. lab). (FA)
Corequisite: STME 1403

STME 1403 Mathematics & Computational Methods of Science I (4)
Turing machines and artificial life, introduction to MATLAB programming, data structures and algorithms for scientific modeling, introduction to the differential calculus with emphasis on the physical interpretation of the derivative, formulation of simple problems taken from chemistry and biology. (3 hr. lecture/3 hr. lab). (FA)
Prerequisite: MATH 1054 or equivalent
Corequisite: STME 1401

STME 1601 Chemical Systems II (4)
A continuation of Chemical Systems I (STME 1401). A thorough discussion of the basic principles of general and inorganic chemistry such as solid and liquid states, solutions, chemical kinetics and equilibrium, acid/base theories, chemical thermodynamics and electrochemistry. Mathematical relationships and problem-solving are stressed. Integrated laboratory will include advanced versions of classical experiments and an introduction to modern instrumentation. (3 hr. lecture/3 hr. lab). (SP)
Prerequisite: STME 1401
Corequisite: STME 1603

STME 1603 Mathematics & Computational Methods of Science II (4)
Typical problems in physics leading to ordinary differential equations, infinite series, power series, numeric solution of ordinary differential equations, integral calculus, solution and interpretation or results using a graphical solver such as VenSim continuation of MATLAB programming. (3 hr. lecture/3 hr. lab). (SP)
Prerequisite: STME 1403
Corequisite: STME 1601

STME 1605 Introduction to Programming in Science & Engineering (4)
Introduction to computer components and structures, programming concepts, elementary procedural programming, introductory object-oriented programming, elementary data structures, text file input/output, structured text data processing, special challenges in science and engineering data analysis, strategies in solving scientific and engineering problems with programming, real examples and actual applications in biotechnology, physics, and/or math, and connections with the latest scientific and engineering research. (3 hr. lecture/3 hr. lab). (FA)

STME 1903 Research Methods-RFI (1)
This course will serve as the introduction to the various research streams that will be available for incoming STEM students to join. Different STEM faculty participating in the Research Experience modules will present their research programs and describe the projects available. Students will learn the process of scientific inquiry and may apply to join a research stream that will enable them to perform authentic scientific research before they take upper level college coursework. (FA)

STME 2401 Physical Systems (4)
A calculus-based introduction to the fundamentals of classical physics. Kinematics and dynamics of particles and extended bodies, rotational motion, collisions and systems of particles. Integrated laboratory will include advanced versions of classical experiments, use of modern instrumentation, mathematical models and simulations. (3 hr. lecture/3 hr. lab). (FA)
Prerequisite: STME 1603
Corequisite: STME 2403

STME 2402 Physical Systems II (4)
A computational emphasis, calculus-based treatment of fluids, thermodynamics and optics. Integrated laboratory will include advanced versions of classical experiments, use of modern instrumentation, mathematical models and simulations. (3 hr. lecture/3 hr. lab). (SP)
Prerequisite: STME 2401

STME 2403 Mathematics & Computational Methods of Science III (4)
Systems of linear equations, finite dimensional vector spaces, vectors, matrices, canonical forms, foundations of the vector calculus. (3 hr. lecture/3 hr. lab). (FA)
Prerequisite: STME 1603
Corequisite: STME 2401

STME 2601 Living Systems I (4)
Introduction to the origin, organization and function of living biological systems with mathematical applications and analysis. (3 hr. lecture/3 hr. lab). (FA)
Pre/corequisite: STME 1601

STME 2602 Living Systems II (4)
Second part of the Living Systems/Biology unit. Introduction to mechanisms of Darwinian evolution. Taxonomy and survey of the living world. Introduction to organismal biology. Introduction to basic anatomy and physiology including nervous, reproductive, respiratory, cardiovascular and immune systems. Basic virology. Ecology and aspects of ecosystem will be covered. Emphasis will be on topics needed for further study in areas of relevance for the biomedicine, biotechnology and biology education NJCSTM tracks. (SP)
Prerequisite: STME 2601

STME 2603 Probabilistic Methods in Science (4)
Introduction to probability and statistics with applications taken largely from biology, chemistry and physics. (3 hr. lecture/3 hr. lab). (SP)
Prerequisite: STME 1603

STME 2681 Honors Organic Chemistry I (3)
Honors organic chemistry I is the first of a two semester sequence at the sophomore-junior level. The first semester will focus on the basic principles of organic chemistry (nomenclature, bonding, molecular shapes, and stereochemistry), reactions of fundamental classes of organic compounds and spectroscopic structure determination methods. Demonstration of these concepts will be accompanied by pertinent examples of bioactive organic molecules from medicine and pharmaceutical research. (FA)
Prerequisite: STME 1601
Corequisite: STME 2683

STME 2682 Honors Organic Chemistry II (3)
Honors Organic Chemistry II is the second of a two semester sequence at the sophomore-junior level. The second semester will focus on critical reactions for synthetic preparation of organic molecules. This course will also focus on the structure, properties and function of organic molecules that comprise biological systems. Demonstration of these concepts will be accompanied by pertinent examples of bioactive organic molecules from medicine and pharmaceutical research. (SP)
Prerequisite: STME 2681
Corequisite: STME 2684

STME 2683 Honors Organic Chemistry I Laboratory (2)
Honors organic chemistry I laboratory is the first of a two semester sequence at the sophomore-junior level. The first semester will focus on the basic skills and techniques required for organic synthesis and product analysis. Laboratory experiments will correspond directly with concepts learned simultaneously in the lecture portion of the course. Students will maintain a legal quality laboratory notebook meeting US industrial standards to record procedures and experimental data. Students will give oral presentation of their laboratory results. (FA)
Prerequisite: STME 1601
Corequisite: STME 2681

STME 2684 Honors Organic Chemistry II Laboratory (2)
Honors organic chemistry II laboratory is the second of a two semester sequence at the sophomore-junior level. The second semester will focus on organic reactions, following synthetic procedures, purification methods and product

analysis. Laboratory experiments will correspond directly with concepts learned simultaneously in the lecture portion of the course. Students will maintain a legal quality laboratory notebook meeting US industrial standards to record procedures and experimental data. Students will participate in a directed research project to synthesize a novel molecule. (SP)

Prerequisite: STME 2681

Corequisite: STME 2682

STME 2903 Research Experience-RFI (2)

Students in this course choose their research stream from those presented in Research Methods. Students will apply proper research procedures and practice established protocols in a laboratory setting, shadowing a research team and the faculty mentor and participating in research, discussions, and presentations. This course prepares students to perform research in the Advanced Research Experience- RFI course. (SP)

Prerequisite: STME 1903

ADVANCED

STME 4901, 4902, 4903

Independent Research (1,2,3)

A laboratory, field or theoretical investigation of a research problem, performed independently by student, under supervision of a faculty member. May be repeated for credit, up to a total of six credits, however only 4 credits may be used to fulfill major elective requirements. (E)

Prerequisite: minimum of 16 credits of STME coursework and a 3.2 cumulative GPA; requires contract with faculty sponsor and approval of chairperson.

STME 3401 Biochemistry Honors I (4)

Prepare students for biomedical and associated careers. Introduction to the major classes of biological molecules, the chemistry of biological molecules and systems, the molecular mechanisms of biological process with an emphasis on chemical dynamics. (SP)

Prerequisite: STME 2681 or CHEM 2581 plus instructor permission

STME 3903 Advanced Research Experience-RFI (3)

This is a continuation of the Research Experience. Students will submit a project/research proposal, then apply research methods learned in the initial Research Experience to advance their understanding of the research involved. Students will produce a final paper and/or presentation of their research. (FA)

Prerequisite: STME 2903

STME 3520 Preceptorship I (3)

Introduction to the patient from the perspective of physicians whom the student rotates with in a clinical setting, with an emphasis on the role of the pathophysiology of common disease processes in the patient narrative. (off-site at hospital partner). (SP)

STME 4520 Preceptorship II (3)

Patient care from the perspective of physicians whom the student rotates with in an outpatient setting, focusing on the pathophysiology of disease processes. Developing patient narrative competency is emphasized. (off-site at hospital partner). (FA)

Prerequisite: Preceptorship I (STME 3520)

STME 4410 Systems Neuroscience (3)

Anatomical, biochemical and physiological structure and function of the nervous system, from cellular and electrical transmission, to sensory and motor pathways, onward to higher order brain functions with relevance to clinical conditions. (SO)

STME 4805 Pedagogy of Modeling & Simulation (3)

Applying modeling and simulation techniques to real world phenomena, particularly in physical and life sciences. Verification and validation techniques in modeling and simulation. Use of modeling in classroom settings. Techniques for teaching STEM concepts with modeling and simulation. (SP)

Prerequisite: STME 2403 & EDUC 3000

SEMINAR

STME 2610 Current Issues in Science & Technology I (1)

Exploration of current issues in science and technology from the perspective of the roles played by science and technology professionals and how science and technology influences society. (FA)

STME 3610 Current Issues in Science & Technology II (1)

Exploration of current issues in science and technology from the perspective of the roles played by science and technology professionals: application of scientific methodology to independent research projects, professional presentations. (SP)

Prerequisite: STME 2610, 2603, and 2601

STME 4610 Science & Technology Seminar (3)

Analysis and solution of interdisciplinary problems in science and technology. Applications of analytical and computational methods, working in teams, and oral and written presentation of results. (SP)

Prerequisite: Senior standing in the Five Year NJCSTM program.

STME 4951, 4952, 4953, 4954 Special Topics in STEM (1,2,3,4)

Classwork designed to provide an opportunity to study the latest development, and the special and/or advanced topics in the field of Science, Technology, Mathematics and Engineering, which students are otherwise unable to study in other courses. Topics to be announced by the department each semester. (FA)

STME 4611 NJCSTM Service Learning (1)

Students will explore and clarify their role as community volunteers, develop communication skills and interpret to others the nature of service learning volunteerism in a community agency. (SP)

Prerequisite: Enrollment in the B.S. Science & Technology NJCSTM program

Corequisite: STME 4610

5TH YEAR GRADUATE COURSES

STME 5010 Molecular Cell Biology I (3)

Molecular cell biology is rapidly advancing the study of biotechnology, particularly in the fields of biomedical, pharmaceutical, and agricultural sciences. Understanding the chemistry of DNA, RNA, and proteins gives biotechnologists the ability to manipulate these macromolecules to more fully understand cellular functions, treat human diseases and engineer more viable crops and livestock. This course will provide students with a broad understanding of the foundation of molecular biology and its applications. (FA)

Prerequisite: Graduate standing in 5-year Science & Technology program or MS Biotechnology program

STME 5020 Ethics in Biotechnology (1)

Examination of ethical issues arising from developments, technologies and research practices in biotechnology and related scientific and medical fields. Consideration given to the goals and possibility of unforeseen outcomes and the implication of new developments and technologies. This course meets online after the first class meeting. (FA)

Prerequisite: Senior status in NJCSTM five year program or instructor permission.

STME 5032 Research Methods in Science Education (3)

Exploration of different research methodologies in science education: quantitative, qualitative, and mixed-method design. Investigations of current research trends in the field of science education, based on current literature and rigorous research designs. (FA)

Prerequisite: Graduate student (matric or non-matric)

STME 5103 Scientific Writing (3)

Learning and implementing written and oral skills for effective communication needed by scientists, including those concerned with good manufacturing practice regulations. Interactive lectures teaching science writing as well as guest seminars and student presentations. (FA)

Prerequisite: Senior status in NJCSTM five year program or instructor permission

STME 5140 Cellular Techniques (3)

Graduate level laboratory-intensive course. Biological approach to the study of proteins, cells and tissues with emphasis on current physiological principles relating structure to function, including biomembranes, cell communication and intracellular trafficking. Lab exercises include cellular biotechniques to purify and characterize proteins, and physiological activity in living cells. (SP)

Prerequisite: Graduate standing in 5-year Science & Technology program or MS Biotechnology program

STME 5170 Molecular Techniques (3)

Graduate level laboratory course presenting experimental design, methods and techniques. Quantitative and qualitative laboratory approaches to the study of subcellular components (RNA, DNA, etc.) with emphasis on current molecular principles and biotechniques to relate structure to function including gene expression and real time genetic analysis. (FA)

Prerequisite: Graduate standing in 5-year Science & Technology program or MS Biotechnology program

STME 5240 Molecular Cell Biology II (3)
Study of biochemical and physiological role of proteins in cell structure and function, with an emphasis on the molecular, chemical and physical principles and interrelationships required for biosynthesis and cellular metabolism, intracellular trafficking and transport, and signal transduction. (SP)
Prerequisite: STME 5010 Molecular Cell Biology I

STME 5310 Molecular Biology of Cancer (3)
An examination of the molecular mechanisms by which cancer cells arise, develop into tumors, and metastasize. Topic include: oncogenes, tumor suppressor genes, signal transduction, cell cycle control, DNA methylation, metastasis, diagnosis and therapy. (SP)
Prerequisite: STME 5010 Molecular Cell Biology I

STME 5320 Applied Human Immunology(3)
Applied Human Immunology focuses on how the human immune system works, what happens when the immune system goes awry, and how different components of the immune system can be harnessed for basic and clinical research. This course will explore many of the molecular and cellular players involved in immunity and the importance of their interactions. (FA)
Prerequisite: Graduate standing in 5-year Science & Technology program or MS Biotechnology program

STME 5330 Science Teaching Methods & Practice (3)
An investigation into science pedagogy design and science teaching methods with regards to Next Generation Science Standards, assessment strategies, laboratory investigations and technology integration. (FA)
Prerequisite: Graduate student (matric or non-matric)

STME 5370 Human Viral Diseases (3)
Principles of the molecular biology of viruses causing human disease. Topics include: history and terminology, viral assay methods, virals maturation, viral epidemiology, and antiviral intervention strategies targeting the various stages in the viral life cycle of important human viral pathogen. (SP)
Prerequisite: Graduate standing in 5-year Science & Technology program or MS Biotechnology program

STME 5400 Biotech Research Lit Review (3)
Students individually conduct a formal scientific literature review of an approved biotechnology topic and propose an area of study. Upon subject approval, the individual researches the topic and composes a literature review paper. The paper is presented orally and defended in a public research forum. (E)
Prerequisite: Graduate standing in 5-year Science & Technology program or MS Biotechnology program

STME 5411, 5412, 5413, 5414, 5415 Intern/Extern Research (3,3,2,2,2)
Students will conduct original research in biotechnology related facility under the advisement of a faculty member. Each project will be approved by the biotechnology steering committee prior to the onset of the internship. (E)
Prerequisite: Graduate standing in 5-year Science & Technology program or MS Biotechnology program

STME 5510 Biostatistics & Computational Analysis (3)
Applied biostatistics for biotechnology researchers to include the use of standard deviation, standard error, normal distribution, significance tests and intervals, analysis of variance, linear and multiple regression, chi squared analysis, multiple comparison and data fitting procedures. (FA)
Prerequisite: Graduate standing in 5-year Science & Technology program or MS Biotechnology program

STME 5610 Advanced Seminar in Science & Technology (3)
Development of frameworks and models to facilitate collaboration between science and technology educators and industry professionals. Application of results to various societal scenarios. (SP & SSI)
Prerequisite: Graduate standing in 5-year Science & Technology program

STME 5615 Chemical Instrumentation & Analytical Techniques (3)
As the first of a two-semester sequence in Chemical Instrumentation and Analytical Techniques, the purpose of the course is to provide a thorough and detailed understanding of the principles of modern analytical techniques, instrumentation and their applications to solve analytical challenges in chemical, pharmaceutical, environmental and biological sciences. Students will have hands-on experience in designing experiments and using major chemical instrumentation. (SP)
Prerequisites: CHEM 3284

STME 5625 Medicinal Chemistry (3)
Medicinal chemistry focuses on how new medications are created and tested. The course will also provide an overview of the drug development process from research bench to patient ingestion. This will include the investigation of small molecule interaction with relevant biological targets efficacy, absorption, metabolism, toxicity pharmacokinetics, methods of testing and patenting. (FA, SP)
Prerequisites: STME-2681 or CHEM-2581

STME 5630 Modeling & Simulation of Dynamical Systems (3)
This course covers computational methods and applications used in dynamical systems throughout the sciences, including methods for integrating systems of ordinary differential equations, and an overview of problems in the sciences described by systems of ordinary differential equations. The verification and validation of model results are emphasized. (FA)
Prerequisite: Undergraduate or graduate coursework equivalent to introductory calculus

STME 5631 Data Analysis & Visualization (3)
Methods for analyzing and visualizing statistical results, time series data, and modeling and simulation results. Fourier analysis, exploratory data analysis, principle component analysis, clustering. Visualization of 3D and multi-dimensional data sets. Manipulation of large data files and use of databases using standard tools and regular expressions. (FA)
Prerequisite: Undergraduate or graduate coursework equivalent to introductory statistics

STME 5700 Research Methods in Math Education (3)
Critical study of the K-12 mathematics curriculum: the development and implementation of the Common Core State Standards for Mathematics, student learning in mathematics, instructional methodologies in the math classroom, international comparisons in mathematics achievement, educational technology in mathematics, issues of equality for underserved and underprivileged populations, math teacher preparation and development. (FA)
Prerequisites: Graduate student (matric or non-matric)

STME 5710 Applied Partial Differential Equations (3)
This course covers both analytic and numerical methods for solutions to initial value problems and boundary value problems for linear partial differential equations of elliptic, hyperbolic, and parabolic types, as well as nonlinear problems. An emphasis will be placed on numerical methods, as well as accuracy and numerical stability of these methods. Applications of partial differential equations to various branches of science including physics, chemistry and biology will be emphasized. (SP)
Prerequisites: MATH 3455, STME 2403 or MATH 2995

STME 5810 Mass Spectrometry & Drug Discovery (3)
Students will develop a basic understanding of modern liquid chromatography (LC)-mass spectrometry (MS) techniques and its applications to solve analytical challenges in chemical, pharmaceutical and biological sciences. (FA)
Prerequisites: CHEM 3382 & CHEM 3284

Minor/Collateral Programs

Kean University offers a wide variety of minor and collateral programs that focus on specific areas of study. A minor or collateral is an optional program taken in addition to the major program of study in order to complement or augment the major, or to develop a second concentration of study. Career opportunities or professional competence may be enhanced through completion of a minor or collateral program. Students should consult with their advisors for information about integration of minors and collaterals with their major programs.

A minor consists of a minimum of 18 semester hours. A minor may be in a single academic discipline or (effective Fall 2014) may be interdisciplinary in nature. If a minor is in a single academic discipline, students majoring in that academic discipline may not minor in that same discipline. A collateral consists of a minimum of 18 semester hours and, like an interdisciplinary minor, includes courses from more than one academic discipline. Effective Fall 2014, the term "collateral" will no longer be used for new programs.

The content of each minor/collateral is prescribed by an academic program and may or may not include electives. A minimum of six semester hours must be from upper division, 3000-4000 level courses. Only courses with a "C" (2.0) grade or better may be applied to the minor/collateral. No more than one-half of the credits for the minor/collateral may be transferred from another institution.

Effective Fall 2016, students seeking admission to minor programs should use the *Major/Minor Status Change Form*. The completed form must be signed by the Executive Director, Chairperson, or Coordinator responsible for the minor program and then submitted to the Office of the Registrar.

Collaterals are not declared until students apply for graduation. At the time of filing for graduation, the academic Department or School offering the minor/collateral program must verify and sign off that all requirements are met. Verification of the completion of the minor/collateral must then be filed with the Registrar's Office. Minors/collaterals will be designated on students' transcripts.

MINOR PROGRAMS

The following minor programs are offered at Kean University:

College of Business and Public

Management: Accounting, Criminal Justice, Finance, Management, Marketing, and Public Administration.

College of Education: American Sign Language, Chinese Studies, French Studies, Health Education, Recreation, and Spanish.

College of Humanities and Social Sciences: Africana Studies, Asian Studies, Chinese Studies, Communication, Economics, English, History, Jewish Studies & World Affairs, Latin American Studies, Political Science, Philosophy & Religion, Psychology, Social Media, Sociology, and Women's Studies.

College of Natural, Applied and Health Sciences: Biology, Chemistry, Computer Science, Information Technology, Mathematical Science, Physics, Statistics, and Sustainability.

College of Visual and Performing Arts: Art History, Fine Arts, Music, Theatre, and Dance.

The course requirements for each minor program are included in the catalog section of the School or Department offering the minor. The course requirements for each collateral program are listed below.

COLLATERAL PROGRAMS

COLLEGE OF EDUCATION

ATHLETIC COACHING

Coaching competency is developed through completion of all of the following courses. Contact the School of PhysEd/Rec/Health at (908) 737-0650 for further advisement.

NOTE: Currently under revision to a minor for Spring 2017.

TOTAL		28
<i>Required Courses</i>		
BIO 2402	Human Anatomy and Physiology	4
ID 1200	Intro to Motor Learning	3
PED 2500	Intro to Biomechanics	3
PED 2520	Introduction to Athletic Training*	3
PED 3505	Kinesiology	3
PED 3510	Physiology of Exercise	3
PED 4620	Administration of High School Athletics	3
<i>Electives</i>		6-9
Select from the following group:		
PED 3305	Coaching and Officiating of Swimming	3
PED 3310	Coaching and Officiating of Baseball	3
PED 3315	Coaching and Officiating of Basketball	3
PED 3320	Coaching and Officiating of Field Hockey	3
PED 3325	Coaching and Officiating of Football	3
PED 3330	Coaching and Administration of Tennis Competition	3
PED 3340	Coaching and Officiating of Volleyball	3
PED 3350	Coaching and Officiating of Soccer	3

BILINGUAL EDUCATION (THIS PROGRAM IS CURRENTLY INACTIVE)

Coordinator: Dr. Gilda DelRisco, J 330B, (908) 737-3902

This program is offered to students interested in teaching children whose native language is other than English. It is usually taken in conjunction with a teacher education major and provides eligibility for a bilingual-multi-cultural endorsement on the teaching certificate. The senior student

teaching experience is in a bilingual-cultural setting which must be specified when the student teaching assignment is requested.

Oral and Written Competency in Languages of Instruction

Students entering the Bilingual Option must also demonstrate oral and written competency in both languages of instruction, for example, Spanish and English, as measured by the ACTFL Proficiency Assessment. Registration and administration of this test is done in the Center for Bilingual Education, Willis 101. The passing scores for Bilingual Education candidates are:

One Language:

Oral – Advanced High

Written – Advanced Mid

Other Language:

Oral – Advanced High

Written – Advanced Mid

This test must be completed before being a declared major.

TOTAL		24
<i>Required Courses</i>		
EMSE 4440	Introduction to Bilingual Education	3
EMSE 4441	History and Culture of LEP Students	3
EMSE 3410	Teaching Techniques for Bilingual-Bicultural Schools	3
EMSE 3420	Theory and Practice of Teaching English as a Second Language I	3
EDUC 3403		
<i>Electives</i>		6
Two of the following selected with advisement:		
CS 3410	Sociolinguistics and Reading	3
EDP 3802	Educational Psychology of the Disadvantaged Urban Child	3
ENG 3101	Introduction to Linguistics	3
ENG 3105	Language, Meaning and Human Behavior	3
ID 4250	School and Society: Cultural Minority and Urban Perspectives	3
HIST 4383	History of the Caribbean World	3
SOC 2300	Racial and Cultural Minorities	3
SOC 2310	Sociology of Poverty	3
SPAN 3240	Development of Puerto Rican Culture	3
SPAN 4420	Twentieth Century Spanish-American Poetry	3
SPAN 4425	Essay in Spanish-American Literature	3

FAMILY STUDIES

Coordinator: Dr. Gilda Del Risco,
Hutchinson Hall J-330B, (908) 737-3902

The Family Studies program is open to students majoring in Early Childhood Education, Special Education, Psychology, Sociology or Social Work. Students in other majors are admitted by permission of the Department of Early Childhood and Family Studies. The program is designed to develop the understanding and skills which will enable individuals to fulfill their roles working with families and as family life educators in school, community and agency settings.

Total 24

Required Courses 15

EC	3610	Child Advocacy: Implications for Helping Practitioners	3
ID	3200	The Family as Educator	3
EC	4325	Practicum: Educational Implications for Serving Families	6
SOC	2100	Sociology of the Family	3
Electives selected with departmental advisement			9

GERONTOLOGY

Coordinator: Dr. Sharon McKenzie, CTRS

Contact: 737-3820

HH 434

NOTE: Currently under revision to a minor for Spring 2017.

The Collateral Program in Gerontology is an interdisciplinary program that may be taken at the same time as the academic major or as an additional program offering professional training. The program enables the practitioner to enhance skills and knowledge for career ladder placement and prepares students for beginning level positions in the senior citizen service delivery system. The program requires completion of 24 hrs. of approved study and a Certificate in Gerontology will be awarded at completion. 2.5 G.P.A. required.

TOTAL 24

Required Courses 15

ID	3750	Basic Concepts in Aging	3
PSY	3130	Psychology of Aging	3
SOC	4350	Sociology of Aging	3
BIO	3450	Biological Aspects of Aging	3
GERO	4290	Practicum in Gerontology (or an equivalent approved Practicum)	3

Electives 9

Three courses selected with advisement from the following:

ID	3760	Aging, The Family and Society	3
GERO	4260	Seminar: Issues in Gerontology	3

OR

ID	3780	Seminar: Issues in Retirement	3
HED	3725	Death in Perspective	3

OR

SOC	4150	The Sociology of Death	3
PHIL	3314	Moral Problems	3

OR

PSY	3110	Life Span Developmental Psychology	3
REC	3320	Therapeutic Recreation in Long Term Care	3
REC	3730	Therapeutic Recreation for Socially and Emotionally Disabled	3
HED	4100	Independent Studies in Health (Internship)	3

NOTE: Where or is specified, one but not both courses would be an acceptable elective. Additional electives may be selected, with prior approval.

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

CLASSICAL STUDIES

Coordinator: Dr. Christopher Bellitto,
Townsend 117,
(908) 737-0252

This program is designed to provide the student with a coherent view of the Classical World and its influence in the development of Western Civilization and to provide a strong background for students wishing to continue their education at the graduate levels.

TOTAL 21

Required Courses 9

ENG	3300	Ancient Greek and Roman Literature in Translation	3
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OR

ENG	3603	Honors Course in Greek and Roman Literature	3
HIST	3110	Greek Civilization	3
HIST	3120	Roman Civilization	3
Electives			12

four courses selected with advisement from the following:

AH	3770	Greek and Roman Art	3
HIST	3120	The Ancient City	3
HIST	4110	The Roman Revolution	3
HIST	4120	Archaeology	3
HIST	4150	Athens in the Age of Pericles	3
ID	3100	Greek and Roman Mythology	3
PHIL	2200	Ancient Philosophy	3
PS	3200	Classical Political Theory	3
ANTH	1900	Introduction to Archaeology	3

PRE-LAW

Coordinator: Dr. Gilbert Kahn,
Hutchinson Hall J-103,
(908) 737-3994

Required Courses 9

PS	2100	American Government and Politics	3
PS	3130	American Judicial Process (WE)	3
PS	3150	American Constitutional Law (WE)	3

Electives 12

Select four courses with counsel and guidance of the Pre-Law Advisor in the Political Science Department from the following:

COMM	3510	Persuasive Communication#	3
ENG	3005	Advanced Composition#	3
ENG	3090	Business, Professional & Technical Writing	3
MGS	3051	Business Law I	3
PA	3500	Administrative Law	3
PHIL	2510	Understanding Arguments	3
PHIL	3307	Philosophy of Law	3
PS	3151	Constitutional Law: Civil Liberties	3
PS	3420	International Law	3
PS	3510	Conflict Resolution and Polity	3
PS	3680	Constitutional Law: Criminal Procedure	3
PS	3820	The Law of Evidence	3
PS	3845	Regulatory Law	3

Prerequisite is satisfied by either a Core Requirement or a General Education Breadth (GEB) course.

1 A grade of "C" or better is required.

2 Many of the courses listed can be taken as Breadth, Major Requirements and/or Major Electives of a number of other major programs.

URBAN STUDIES

This program is conceived on broad interdisciplinary lines in order to provide comprehensive preparation for those interested in the study of American urban life. It may be taken in conjunction with any major academic curriculum and includes a one semester field experience internship in a city agency.

Most of the courses offered in the program have prerequisites. It is advisable, therefore, that prerequisite courses be taken with fulfilling general education requirements.

TOTAL 24

Required Courses 9

HIST	4361	History of the American City	3
HIST	4991	Field Work and Seminar in Urban Studies	6

Electives 15

To be selected with advisement for appropriateness to the student's major

COLLEGE OF NATURAL, APPLIED AND HEALTH SCIENCES

ENVIRONMENTAL STUDIES

This collateral program will enhance student transcripts for the work place, not just for those in the sciences but for students across the university. This collateral program allows for a wide variety of student choice. The courses are conducted by departments and faculty actively involved in research activities which include faculty seminars, independent research, community education and outreach, field and laboratory or practicum experiences, and professional development for pre-service and in-service teachers. Students participating in the collateral program will benefit from these additional learning experiences.

This program offers students a multi-disciplinary approach to applying science and math to environmental issues including urban ecosystems and watersheds, human impacts regionally and globally, and sustainability. Systems behaviors and interactions are considered throughout. Critical thinking skills are developed through lab and field experiences, problem solving and case studies, and participation in research activities.

Prerequisites: Precalculus (MATH 1054) or an equivalent or higher math course. One of the following lab sciences: General Biology I (BIO 1300) or equivalent, Chemistry I (CHEM 1083), Intro to Geology (GEOL 1200) Intro to Meteorology (METR 1300) or a Physics course (PHYS 2091 or PHYS 2095).

Students must complete a minimum of 18 credit hours from courses listed in at least 3 of the areas below. These courses may not be used to also satisfy other requirements in general education or in the major program. Some courses may have additional prerequisites.

BIOLOGY

BIO	1400	General Biology II	4
BIO	2500	Botany	4
GEOL	3264	Invertebrate Paleontology	4
BIO	3000	Marine Biology	4
BIO	3305	Microbiology	4
BIO	3400	Zoology	4

ECOLOGY

BIO	4615	Applied Ecology	4
BIO	2601	Environment, Ecology & Humanity	4
BIO	3614	Principles of Ecology	4
SUST	3330	Urban Ecology	3

GEOSCIENCE

GEOL	3281	Field Geology I	2
GEOL	4252	Field Geology II	2
ES	3200	Geographic Information Systems in Geoscience	4
GEOL	3266	Hydrology	4
OCEAN	2400	Oceanography	4
ES	3463	Marine Science	3

METHODS

METR	3360	Air Pollution	3
MATH	2526	Applied Statistics	3

BIO	4835	Biostatistics	3
CHEM	4285	Chemical Separation Methods	4
TECH	1010	Information Technology Foundations	3
CHEM	3284	Instrumental Methods of Analysis	4
ES	4200	Remote Sensing	4
PERSPECTIVES			
SOC	3420	Environment & Society	3
PHIL	3800	Environmental Philosophy	3
GEOG	2020	Conservation of Natural Resources	3
HED	3635	Introduction to Public Health	3
ES	1000	Observing the Earth	3
SOC	3151	The Community	3
GEOG	2010	World Geography	3

MARINE SCIENCES

Coordinator: Dr. Brian Teasdale,
Science Building, 124
(908) 737-3654

The New Jersey Marine Sciences Consortium (NJMSC) in affiliation with Kean University and 21 other New Jersey colleges and universities, was founded in 1969 to promote knowledge about and the stewardship of New Jersey's marine and coastal environment. Through its Sandy Hook field station at the Gateway National Recreational Area, the Consortium offers courses, sponsors student and faculty research, and provides a site for meetings, symposia, workshops, and field work.

A Kean University student must be enrolled as a major in biology, chemistry or earth science in order to participate in the collateral program in Marine Sciences. The collateral consists of required courses in Biology and Oceanography and elective classes selected from Biology, Geology, Earth Science, Oceanography, Chemistry, Physics, and Meteorology.

Students may avail themselves of the summer courses offered at the NJMSC field station by registering through Kean or another member colleges following the regular summer school registration procedure. Courses offered at Sandy Hook vary each summer; therefore, students are asked to consult the Consortium's website (<http://www.njmssc.org/>)

Descriptions of the courses listed below are found in this catalog in the offerings of the Departments of Biology, Geology and Meteorology, and Chemistry/Physics.

TOTAL	28
Required Courses	20
OCEAN 2400 Intro to Oceanography	4
BIO 3000 Marine Biology	4
OCEAN 4470 Physical Oceanography	4
OCEAN 4455 Chemical Oceanography	4
OCEAN 4454 Marine Geology	4
Electives	8

Minimum of two advanced courses selected from the appropriate interest group:

Marine Biology

BIO *Two relevant biology courses selected in consultation with the Coordinator of the Marine Sciences Collateral

Marine Geology

GEOL 3263, 3264, 4263, 4265, 4266,
ES 4953-4954
ES 4963-4964

Oceanography

CHEM 2283, 3284, 3381-3382; METR 3370;
PHYS 4491, 4592

*Taught at the Consortium Field Station only.

Interdisciplinary Courses

ID 0123 Trans Disciplinary Mentoring

This course provides a one on one small group mentoring/training experience for individuals with Project Excel support.

ID 1010 Leisure and Recreation in a Multicultural Society (3)

The current trends in the growing areas of discretionary spending, changing lifestyles, and leisure pastimes.

Approved General Education Distribution Course (GEHPE)

ID 1050 Orientation to Allied Health Professions (3)

Overview of the health care delivery system in the United States emphasizing the interrelationships among health care personnel and patients.

ID 1100 Academic Applications of Cognitive Learning Theory (3)

Understanding of the principles and development of skills essential to successful academic performance: comprehension, memory, analytical thinking, problem-solving, communication, test preparation, self-evaluation. Provision of a variety of learning strategies based on the application of theories and research in learning and cognitive psychology. Must be taken concurrently with another appropriate (with advisement) academic course.

ID 1220 Introduction to the Human Services for Social Workers in EC Settings-Level I (3)

A course for social service workers in early childhood settings.

ID 1225 Critical Issues and Values of Contemporary Health (3)

An overview of the physical, emotional and social determinants of health and strategies which contribute to overall well being.

Approved General Education Distribution Course (GEHPE)

ID 1300 Introduction to Women's Studies (3)

Overview of the significant perspectives and contributions women have brought to a variety of academic disciplines; examination of how gender, race, class, ethnic and cultural constructs, and sexual orientation affect women.

Approved General Education Distribution Course (GEHU)

ID 1400 Computing in Modern Society (3)

Fundamental computing concepts, technology and skills used in modern society; problem abstraction and design principles; data and information representation, algorithm concepts; introduction to a programming language. (E)

Approved General Education Distribution Course (GESM)

ID 1500 Critical Reading and Community (3)

Using Readings from multiple genres and disciplines, this seminar studies a clearly defined and relevant topic to encourage deeper understanding, fluency in reading and application of reading strategies. Culminates with a student chosen community service group project.

Approved General Education Distribution Course (GEHU)

ID 1510 Introduction to Global Studies I (3)

Earth viewed in terms of its major natural and human systems; attention to global problems, related human values, and possible courses of action; case studies of problems related to "sustainable development" such as global warming.

Prerequisites: All Developmental courses.

ID 1520 Introduction to Global Studies II (3)

Examination of basic worldviews of Earth; exploration of interrelationships between major global problems; action research on selected problems using group problem-solving.

Prerequisites: ID 1510.

ID 1800 Holocaust, Genocide, and Modern Humanity (3)

Introduction to the history of the European Holocaust and the wider questions of genocide in the modern world. Examination of these events in comparative context (including such events as the Armenian, Stalinist, and Cambodian genocides) and discussion of their impact on modern cultural, political, intellectual developments. Exposure to some of the greatest moral and ethical dilemmas in modern history. Exploration of how an understanding of the origins and virulence of genocide challenges societies to be more tolerant, pluralistic, and open. An introductory course drawing from history and the humanities, the social sciences, and education.

ID 2001 Exploring Space and Time (3)

An integrated mathematics and science investigation into the dimensions of space and time. Topics considered will include: directions, location, time, size and scale, ordering, and relativity in conjunction with plane, solid, and coordinate geometry, measurement and the metric system, functions, and probability.

Prerequisites: Completion of the General Education Mathematical Sciences requirements. Required for TEEMS Project participants.

ID 2051 Arts and Crafts in Therapeutic Recreation (3)

An introduction to the development of arts and crafts programs for therapeutic recreation settings. Includes concepts relating to the design and delivery of recreation program activities which enhance the creative abilities of disabled persons and promote their growth and development.

ID 2052 Human Exceptionality (3)

This course provides an overview of the historical, legal, etiology, and needs of individuals with disabilities.

ID 2220 Introduction to the Human Services for Social Workers in EC Settings-Level II (3)

A skill-development course for social service personnel working with families and children in early childhood settings.

Prerequisite: ID 1220.

ID 2252 Introduction to Psychology of the Handicapped (3)

An examination of attitudes towards people with disabilities. An understanding of the characteristics of "handicap" and the concept of individual differences. Role playing, simulations, case studies and field experiences. Techniques for relating to persons who happen to be disabled.

ID 2415 Group Communication (3)

Theory and practice of small group communication, leadership, problem solving and decision making.

Approved General Education Distribution Course (GESS)

ID 2500 Introduction to Global Studies (3)

Earth viewed in terms of its major natural and social systems; attention to global problems, related values, and possible courses of action; case studies of problems related to "sustainable development" such as global warming and environmental justice.

Prerequisites: One course in either Sociology, Anthropology, Economics, History, Political Science or Psychology.

ID 2701 Plays: On Page and On Stage (3)

Examination of theatrical scripts in context of their realization in production. Purchase of theatre tickets required. (SP)

Prerequisite: None

ID 2950 Technology and the Young Child (3)

Exploration of developmentally appropriate use of technology by young children in home and school. Emphasis is on computer and Internet technologies.

Prerequisites: PSY 1000 or PSY 2100

ID 2955 The Disabled Person in American Society (3)

Explores issues related to adaptation and modification for those with disabilities in American Society. Settings such as the school, home, and workplace will be examined.

ID 3010 Philosophy in Literature (3)

A collaborative interdisciplinary course in the English and Philosophy Departments whose aim is to analyze works of literature in terms of philosophical issues: identity, human nature, creativity, meaning, the limits of life, freedom and God.

Prerequisite: Junior standing or permission of instructor.

ID 3051 Computer Technology in Today's Inclusive Society (3)

Information is presented relevant to basic computer/technology operations and concepts and adaptive devices and software used in the inclusive classroom.

Prerequisite: ID 2052

- ID 3100 Greek and Roman Mythology (3)**
A study of the myths of the Greeks and Romans with emphasis on historical origins, functions and means of expression and transmission.
Prerequisite: Junior standing or permission of instructor.
- ID 3101-3102 Seminar in Environmental Studies I and II (1,1)**
Correlation of the concepts and approaches of the concerned disciplines, the natural sciences, political science, economics, sociology and others, to environmental problems.
ID 3101 is prerequisite to ID 3102.
- ID 3162 Families as Collaborators in the Classroom, School, and Community (3)**
Group dynamics theory and practice will be examined to promote collaboration and consultation between families and professionals. Transitioning communication strategies and collaborative practices will be discussed.
Prerequisite: ID 2052
- ID 3163 Building Inclusive Environments through Positive Behavioral Supports (3)**
This course explores effective management practices for inclusive classrooms. Behavioral theories, functional behavioral assessment, and development of positive behavioral intervention plans will be discussed.
Prerequisites: ID 2052, Corequisite SPED 3000, SPED 3001 Acceptance into TSD Program
- ID 3200 The Family as Educator (3)**
Exploration of the ways members of families educate each other and the outcomes of these efforts. Emphasis on the development of skills for observing, recording, and analyzing family educational interactions.
Prerequisite: SOC 1000, 2100.
- ID 3202 Understanding Parenthood (3)**
To help potential parents, parents of young children and those working with parents extend their parenting understandings and skills.
Prerequisite: PSY 2100.
- ID 3210 Working with Infants, Toddlers, and Young Children in Diverse Settings (3)**
The purpose of this course is to understand children's growth and development during their first three years of life. Physical, cognitive, language, and social/emotional development will be studied with an emphasis on implications for infant/toddler caregiving.
- ID 3230 Understanding Images (3)**
Introduction to visual literacy and visual studies. Lecture/discussion exploring the ways in which we create and use images including theories of perception, the mechanism of seeing, the semiotics of visual systems, cultural contexts and biases, and the role of technology in image making. (E, SSII)
Prerequisites: None
Approved General Education Distribution Course (GEHU)
- ID 3312 Technology and Human Destiny (3)**
An analysis of the consequences and problems involved in the development of modern technology; the impact of technology on modern culture.
Prerequisite: Junior standing or permission of instructor.
- ID 3315 Ethics and Public Policy (3)**
Examination of basic moral and philosophical theories which function as guidelines in the development and evaluation of public policies. Special attention is given to formulating policies in the areas of welfare, family planning, health distribution and national defense.
Prerequisite: One course in philosophy and one course in public administration or political science or permission of instructor.
- ID 3331-3 Public Performance: Preparation and Presentation (1-3)**
Examination and creation of a public persona through textual analysis and external research of a literary text and the world it describes. Physical, vocal, mental, and emotional development of the persona during a preparatory process. Public presentation of literary text in a fully mounted production. Instructor will determine after selection of participants if level of involvement warrants one, two, or three hours of credit.
Prerequisite: Permission of instructor
- ID 3341-3 Behind the Scenes of Public Performance (1-3)**
Practical experience in supervisory, design, and technical positions in live public performance. Instructor will determine, after selection of participants, if level of involvement warrants one, two, or three hours of credit.
Prerequisite: Permission of instructor
- ID 3660 Continental and American Realism (1850-1900) (3)**
An examination of the aesthetic theories and practices of Flaubert, Zola, Turgenev, Verga, Howells and James.
Prerequisite: Junior standing or permission of instructor.
- ID 3700 Survival of Classical Mythology in Art (3)**
Survey of Greco-Roman myths and their transformations in art from antiquity through the Renaissance.
Prerequisite: ID 3100 or permission of instructor.
- ID 3750 Basic Concepts in Aging (3)**
An overview of the processes and problems associated with aging, including physiological, psychological, and social aspects of later life. Introduces changes that they and/or members of their families will encounter during the later half of the life-cycle.
- ID 3760 Aging, The Family, and Society (3)**
Character and problems of aging families, the relationship between older families and society, with interaction patterns, family needs and resources, and intervention strategies used to meet the needs of elders and family members providing care.
- ID 3780 Perspectives on Retirement (3)**
Social forces influencing the development of retirement policies and programs, effects of retirement, pertinent policy issues, and pre-retirement education programs.
- ID 3810 Economics of Collective Bargaining (Private Sector) (3)**
The economic nature of the collective bargaining system in the United States and the parties who have a vital interest in the operation of the system. Deals with formal organizations designed to represent the interest of employers, workers and the general public and presents historical background on the unions and collective bargaining.
Prerequisite: ECO 3800 or permission of instructor.
- ID 3900 Interdisciplinary Seminar on Futurism (3)**
Emphasis placed upon integrating a wide variety of approaches and a number of disciplines focused on problems and prospects of the future. Each student pursues an appropriate project, the results of which may be expressed through a paper, film, recording or the use of other suitable media, for presentation to the seminar. Areas of special concern: computer technology and its application to learning and planning; current brain research; social change; biological breakthrough; ecological planning.
Prerequisite: Junior standing or permission of instructor.
- ID 4001 Myth and Symbolism in Pre-Hispanic Mexico (3)**
Examination of the myths, spiritual concepts and symbolism of the peoples that developed the great civilizations of Pre-Columbian Mexico.
Prerequisite: Junior status or permission of instructor.
- ID 4002 Egyptian Mythology (3)**
An examination of the Egyptian mythological concepts and systems.
Prerequisite: Junior standing or permission of instructor.
- ID 4100 China During the Age of Confucius (3)**
Ancient China from late neolithic early imperial times with special emphasis on the Eastern Chou period (770-221 B.C.) An interdisciplinary approach to the history, geography, art, written tradition and archaeology of China in this early period of its development.
Prerequisite: Junior status or permission of instructor.
- ID 4101-4102 Seminar in Environmental Studies III and IV (1,1)**
A problem-oriented seminar in environmental studies in which solutions to a current environmental problem will be proposed after research and analysis. ID 4101 is prerequisite to ID 4102.
Prerequisite: ID 3102.
- ID 4200 The Victorian Age, 1837-1901 (3)**
An interdisciplinary approach to the history, art, constitutional developments, philosophical thought and scientific advances of the Victorian period.
Prerequisite: Junior status or permission of instructor. Strauss

ID 4201 Group Dynamics (3)
Principles of group function including types of groups, group structure, communication, leadership, membership, methods of studying groups, and techniques of working in groups and with groups. Designed for students who wish to study group processes as related to work in education, recreation, and other fields. Attendance is required.

Prerequisite: A course in psychology.

ID 4220 Adult Protective Services (3)
An investigation into selected issues dealing with the vulnerable adult and the frail and older adult. Examines the emergence of this heterogeneous population as an individual, family and community problem and provides the beginning skills for understanding the individual's needs and rights based on the framework of adult protective services as a philosophy and as a social service.
Prerequisite: SW 2900 or HED 3325 or permission of instructor.

ID 4240 Understanding Family and Community Partnerships (3)
Relationships among families, teachers, schools, the workplace, and other community institutions. History and significance of parent and community involvement. Evaluation of techniques for forming effective partnerships in diverse educational settings.

ID 4252 Bilingual Child: Problems of Adjustment to American Society (3)
Examination and analysis of the multiple and varied types of adjustments that the bilingual-bicultural child is called upon to make in the process of adapting to American schools and society.

ID 4253 Orientation in Psychological Testing (3)
Overview of clinical tests and other assessment techniques used in special education. Introduction to construction and validation of instruments. Practice in the administration of supervised tests to provide familiarity with the behavior of handicapped individuals in test situations.
Prerequisites: SPED 2051.

ID 4279 Teaching Seminar and Practicum (6)
Twenty to thirty days of supervised teaching and seminar on school policies, organization and curriculum and on student population.

ID 4500 Seminar in American Business Issues (3)
Exposition and critical analysis of controversial issues currently facing the American business system. Opposing viewpoints on topics such as inflation, profits, business ethics, government regulation, and energy policy examined. Advocacy lectures by guest speakers.
Prerequisites: 3.0 G.P.A., at least junior standing; 12 credits from among economics, management, political science and/or public administration and permission of instructor.

ID 4850 Interrelating the Arts (3)
Interrelationships of form and content in the expressive arts, studied through personal involvement in the visual arts, dance, music and drama.
Prerequisite: Two courses in the areas of art, music, dance or drama.

ID 4900 Adventures in Ideas (3)
An interdisciplinary approach to understanding significant and novel ideas, problems and insights of contemporary planetary civilization. The "adventures" interrelate and/or extend beyond the generally established academic and scientific areas of specialization. Encouraged and guided by outstanding thinkers and creators, participants engage in adventures in mind, heart, eye and ear; adventures in space and time; adventures in the past, present and the future."
Prerequisite: Senior standing or permission of instructor.

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(as of July 2016)

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Detailed Academic Calendars are posted on the University Website (under the Registrar and the Office of Academic Affairs) and are subject to change. For the most updated calendars, please go to <http://www.kean.edu/KU/Academic-Calendar-Registrar>

Directions to the Main Campus

Kean University is in a great location - metropolitan Union County. The campus is a short distance from Newark Liberty International Airport, NJ Transit trains and major highways.

You have easy access from the Garden State Parkway, NJ Turnpike and Routes 1&9, 22 and 78. No wonder so many students choose to commute to Kean.

Park your car and enter the 150-acre campus dotted with woods, streams and open space, an ideal environment for learning and living. But the classroom does not end at the edge of the campus. Kean's faculty takes full advantage of the University's proximity to the New York/New Jersey's metropolitan area with its wealth of cultural and intellectual activities.

BY CAR

From US Route 22

Eastbound: Drive under Parkway turn right onto exit for Route 82 East. Continue toward Elizabeth. Campus is within 2 miles.

Westbound: Drive under Parkway, keep right and follow signs to Elizabeth (Route 82 East). Turn right on Morris Avenue.

From the Garden State Parkway

Northbound: Leave Parkway at Exit 140, keep right and follow signs for Route 82 East towards Elizabeth.

Southbound: Leave Parkway at Exit 140-A onto Route 22 West. Keep right and follow signs to Elizabeth (Route 82 East). Turn right on Morris Avenue.

From US Routes 1-9

Northbound: Enter Elizabeth and go around the Bayway circle onto Route 439 West (Elmora Avenue). Continue to Morris Avenue (Route 82). Campus is on the left.

Southbound: Entering Elizabeth follow signs for Local Traffic (extreme right). Follow signs to North Avenue. Turn right onto North Avenue (Route 439) and continue to Route 82 (Morris Avenue). Turn right. Campus is on the left.

From New Jersey Turnpike

Leave Turnpike at Exit 13A (Elizabeth). Follow North Avenue West sign onto route 439 which intersects with Route 82 (Morris Avenue) at college. Make right onto Morris Avenue. Campus is on the left.

Leave Turnpike at Exit 13 (Elizabeth). Follow signs for Route 439. Continue across Route 1-9 at Bayway intersection onto Elmora Avenue (Route 439). Continue to Route 82 (Morris Avenue). Campus is on the left.

Leave Turnpike at Exit 14 for Route 1-9 South. Entering Elizabeth follow signs for Local Traffic (extreme right). Follow signs to North Avenue which intersects with Route 82 (Morris Avenue) at college. Make right onto Morris Avenue. Campus is on the left.

BY TRAIN

Union Station

Located at 900 Green Lane in Union, N.J., directly across the street from Kean's main campus, Union Station is on NJ Transit's Raritan Valley line, which runs northeast to Newark Penn Station, and southwest to High Bridge in Hunterdon County.

For a Raritan Valley line train schedule, visit <http://www.njtransit.com/pdf/rail/r0060.pdf>

Elizabeth Station

Elizabeth Station is located on West Grand Avenue, one block west of Broad Street in Elizabeth, N.J., which is just two miles from campus by bus or taxi. The NJ Transit Northeast Corridor and North Jersey Coast line trains stop there. The Northeast Corridor line runs northeast to Newark Penn Station and New York Penn Station, and southwest to Trenton. The North Jersey Coast line runs northeast to Newark's Penn Station and New York City and southeast to Bay Head in Ocean County.

For a Northeast Corridor line train schedule, visit: <http://www.njtransit.com/pdf/rail/r0070.pdf>

For a North Jersey Coast line train schedule, visit: <http://www.njtransit.com/pdf/rail/r0080.pdf>

BY BUS

NJ Transit #52 and #26 between Elizabeth and Springfield passes the Campus on Morris Avenue. NJ Transit #113 between Plainfield and Port Authority Bus Terminal, New York, stops at Salem Road and Morris Avenue.

For further information about fares and schedules for buses and trains, visit www.njtransit.com

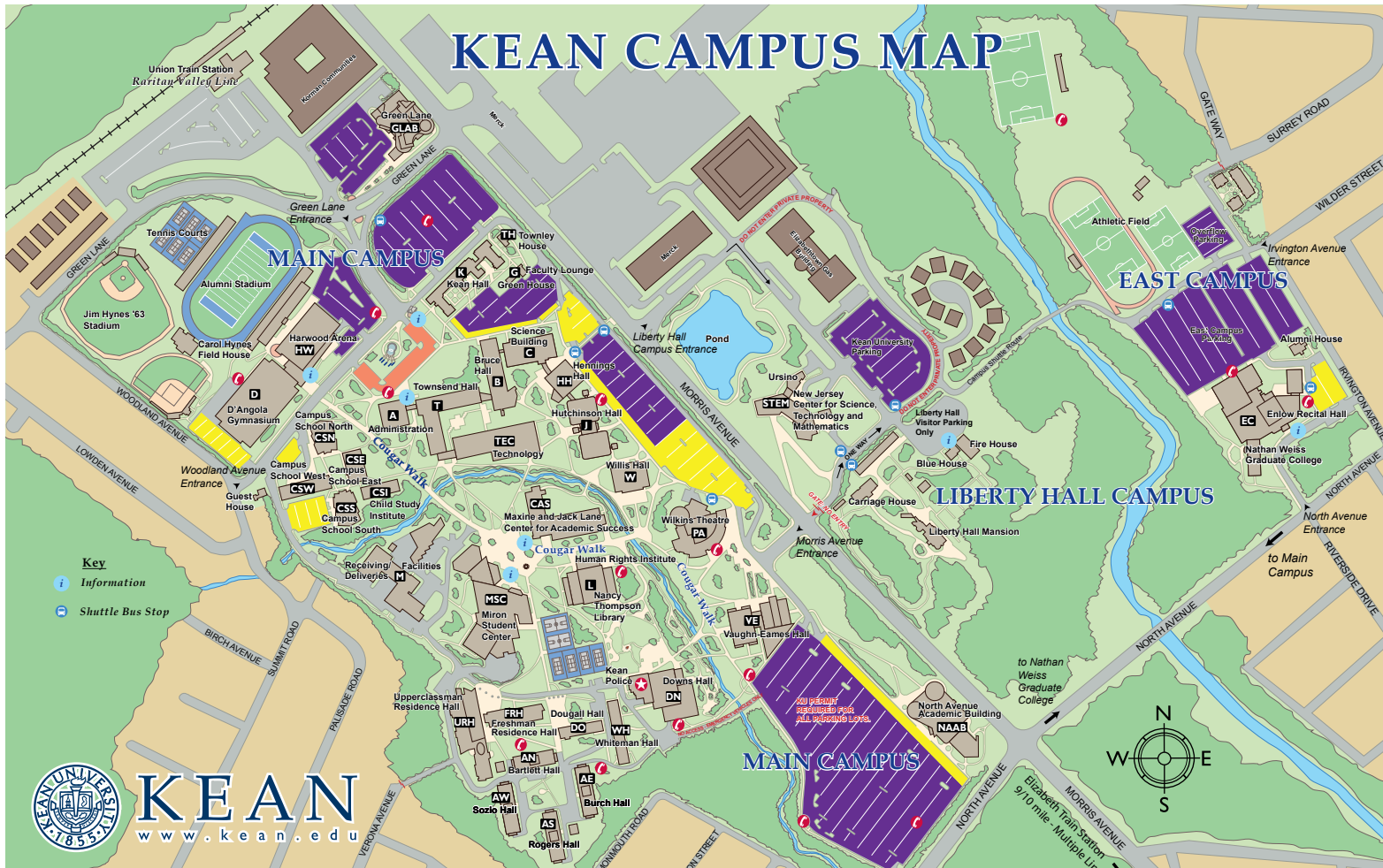


KEAN CAMPUS PARKING

DESIGNATED STUDENT PARKING

DESIGNATED FACULTY/STAFF PARKING

VISITOR PARKING



Administration Building (A)

Bartlett Hall (AN)

Bruce Hall (B)

Burch Hall (AE)

Campus School East (CSE)

Campus School North (CSN)

Campus School South (CSS)

Campus School West (CSW)

Child Study Institute (CSI)

D'Angola Gymnasium (D)

Department of Public Safety and Police (P)

Dougall Hall (DO)

Downs Hall (DN)

Facilities (M)

Greenhouse (G)

Green Lane Academic Building (GLAB)

Harwood Arena (HW)

Hennings Hall (HH)

Hutchinson Hall (J)

Kean Hall (K)

Maxine and Jack Lane Center for

Academic Success (CAS)

Miron Student Center (MSC)

Nancy Thompson Library (L)

New Freshman Residence Hall (FRH)

New Jersey Center for Science,
Technology and Mathematics (STEM)

New Upperclassman Residence Hall (URH)

North Avenue Academic Building (NAAB)

Rogers Hall (AS)

Science Building (C)

Sozio Hall (AW)

Technology Building (TEC)

Townley House (TH)

Townsend Hall (T)

Vaughn Eames Hall (VE)

Whiteman Hall (WH)

Wilkins Theatre (PA)

Willis Hall (W)

East Campus

East Campus Building (EC)

Alumni House

Athletic Field

Soccer Field

Softball Field

Varsity Tennis Courts