

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. The faculty and staff are committed to providing relevant education and services to a diverse student population. The goal is to prepare students to think critically and creatively so that they can adapt to changing social, economic and technological conditions. Building external collaborations with major technological corporations and the health care industry is an integral part of the colleges outreach mission, which enables it to provide valuable services to the community as well as increased opportunities for students.

We are proud to have been designated the Flagship State University for the Health Professions. Our graduates can be found practicing in hospitals and other health care agencies across New Jersey. Also, our programs in the Sciences have a long distinguished record of service to this region. So, whether you are looking to study in the Natural and Physical Sciences, Health Care, Mathematics, Technology, or Computer Science, you will gain a strong foundation at the College of Natural, Applied and Health Sciences.

Interim Dean, Pablo Zafra

Assistant to the Dean, Lourdes F. Prieto

B-104, (908) 737-3600

ACADEMIC DEGREES, PROGRAMS

B.A. in Biology

- General Option
- Honors Option
- Teacher Certification Option
- Teacher of Students with Disabilities Option

B.S. in Biology

- General Option
- Biotechnology Option

B.A. in Chemistry

- General Option
- Preprofessional Option
- Teacher Certification Option

B.S. in Chemistry, Expanded Option

B.S. in Computer Science

- Information Systems Option

B.A. in Earth Science

- General Option
- Teacher Certification Option
- Teacher of Students with Disabilities Option

B. S. in Earth Science

- Earth System Science Option
- Geology Option
- Meteorology Option

B.A. in Mathematical Sciences

- Teacher Certification Option
- Teacher of Students with Disabilities Option

B.S. in Computer Integrated Design and Manufacturing Technology

B.S. in Electronics Technology

B.S. in Telecommunications and Information Technology

HEALTH PROFESSIONS

B.S. in Health Information Management

- General Option
- Occupational Therapy Track

B.S. in Medical Technology

- General Option
- Cytotechnology Option
- Histotechnology Option

B.S.N. in Nursing

Post Baccalaureate School Nurse Program

JOINT (OR COMBINED) DUAL DEGREE PROGRAMS

B.S. in Health Information Management/ M.S. Management Information Systems

B.S. in Health Information Management/ M.A. Communication Studies

B.A. / M.S. in Occupational Therapy

B.A. / DPT Physical Therapy (with UMDNJ)

COLLABORATIVE PROGRAM

BA in Elementary Education Liberal Studies in Mathematics, Science, and Technology:

- Biology Specialization
- Earth Science Specialization
- Mathematics Specialization
- Technology Specialization

DEPARTMENTS, FACULTY

Biological Sciences

Faculty: Codella, Field, Glazer, Hayat, James, Mancarella (Chairperson), Osborne, Porta, Pu, Rosenthal, Vassiliou, Yu, Zhang

Chemistry-Physics

Faculty: Castiglione, Criasia (Chairperson), Gao, Getzin, Hicks, Kampa, Kubow, Lees, Shin, Stokes-Huby, Vitale, Zarrilli

Geology and Meteorology

Faculty: Croft, Dobosiewicz, Krall, Kroll, Manfrino, Metz (Chairperson), Murphy, Ngoy, Yoh, Zois

Mathematics and Computer Science

Faculty: Abeles, Affouf, Alsina, Arnow, Avirappattu, Beaugris, Chang, Deavours, Emanouilidis, Hahn (Chairperson), Halper, Krantz, Lehmann, Lipson, Mathur, Narasimhan, Ryder, Santomauro, Stewart-Gardiner, Tse, Viglione, Wang, Wittenberg, Woubneh, Zafra

Technology

Faculty: Behi, Cokewood, Shahrabi (Chairperson)

Health Information Management

Faculty: Davis, Manger (Chairperson)

Medical Technology

Coordinator: Osborne

Nursing

Faculty: Campbell (Chairperson), Fitzgerald, Fitzsimons, Hascup, Krause-Parello, Neville, Pisani

Occupational Therapy

Faculty: Knis-Matthews, Richard, Stern (Chairperson)

Physical Therapy

Kean University has a collaborative dual degree program with the University of Medicine and Dentistry in Newark, New Jersey (UMDNJ). This dual degree program in Physical Therapy is a six-year combined Bachelor's and Doctor of Physical Therapy Program. It consists of undergraduate studies at Kean for the Bachelor's degree and graduate studies at UMDNJ in Newark leading to a Doctor of Physical Therapy degree (DPT).

Kean University offers nine majors from which to choose for the Bachelor's degree. Once admitted into the undergraduate major, students must meet all general education and major requirements for the degree as well as all prerequisite courses for the DPT Program. In the fall semester of the junior year, students may apply for admission to the graduate Doctor of Physical Therapy degree program at UMDNJ. If accepted into the program, courses taken during the first year of the DPT Program will be used to complete the senior year of the undergraduate degree. After completing the first year of the DPT, students will be awarded the Bachelor's degree from Kean University in the undergraduate discipline chosen. Students will continue the two additional years at UMDNJ to complete the requirements for the DPT degree.

Students who already have a Bachelor's degree must contact UMDNJ Enrollment Services at (973) 972-5454 to apply directly to the DPT program.

ADMISSIONS

Admission to the Doctorate in Physical Therapy program is competitive and through a special application process. Applications are available in September and are due at UMDNJ on December 1 of the calendar year preceding the summer in which the student plans to enter the program.

To be eligible to apply to the DPT through this dual degree program, the student must first meet the requirements for an undergraduate major at Kean University. To qualify for the baccalaureate degree at Kean University, the student must be fully matriculated in one of the nine designated major programs and complete that program as described.

A minimum of 32 degree credits, including one-half of the major requirements, must be earned at Kean. In order to begin the DPT program in the senior year, the student must have completed all of the required general education, major courses, and courses which serve as prerequisites to the DPT program. These requirements must be completed by the end of the spring semester before the summer in which the student expects to begin the DPT program. The program will begin in mid-summer every year for the new entering class. The balance of free elective course requirements would be fulfilled by the DPT courses taken at UMDNJ during the first year of the graduate program.

This intensive and highly competitive 110 credit professional program includes course work and clinical affiliations with all courses taught at UMDNJ in Newark. The DPT is a year-round program with classes scheduled during the school year and in the summer. Class size is limited. Because of the nature of physical therapy, students must be able to perform tasks and movements that require strength and endurance.

CHOOSING AN UNDERGRADUATE MAJOR

Students may choose from the following undergraduate majors:

Biology (BA General)
Earth Science (BA General)
Economics
History
Philosophy and Religion
Political Science (General)
Psychology
Sociology
Spanish

PROGRAM REQUIREMENTS

Successful admission to the program is based on:

- A satisfactory cumulative grade-point average (A-B range) from all colleges attended
- A minimum GPA of (A-B range) in prerequisite courses
- Graduate Record Examination scores - GRE General test which includes three sections: verbal, quantitative, and analytical

- Field Experience – Applicants must demonstrate experience, as a volunteer or as a paid worker, in at least two different clinical settings prior to applying to the DPT program
- References – Letters of recommendation are required from two clinical sites where the field experience was obtained. In addition, one personal letter of recommendation is required.
- Other requirements – Students must submit transcripts from all colleges and universities attended and must show extracurricular or work experience that demonstrates interpersonal skills, leadership capabilities and general interest in the healthcare profession.

After application to the DPT Program, the Admissions Committee may contact applicants to schedule an interview at UMDNJ in Newark.

All General Education and major requirements, as well as the following prerequisite courses must be successfully completed:

PSY	1000	General Psychology*	3 credits
CHEM	1083	Chemistry I	4 credits
CHEM	1084	Chemistry II	4 credits
BIO	3403	Anatomy and Physiology I**	4 credits
BIO	3404	Anatomy and Physiology II **	4 credits
PHYS	2091	General Physics I	4 credits
PHYS	2092	General Physics II	4 credits
MATH	2411	Calculus I	3 credits
Statistics	***		3 credits

* Other psychology courses may be substituted for PSY 1000

** These courses must be taken at the junior or senior level

*** Taken with advisement according to the undergraduate major selected

Prerequisites must have been taken within the past 10 years of the date of application to the DPT at UMDNJ.

For additional information about the dual degree program at Kean University, please contact the Office of the Dean, Bruce Hall 104, (908) 737-3600. For additional information about the UMDNJ professional phase, please contact Pamela Boyle at (973) 972-4547 or at boylepk@umdnj.edu.