

For OCC Students transferring into Kean University with AS.GE.Science Option



KEAN UNIVERSITY DOROTHY AND GEORGE HENNINGS COLLEGE OF SCIENCE, MATHEMATICS, AND TECHNOLOGY (70104) BA. Biology (General Option): 120 S.H.

Minimum GPA required for declaration into major and graduation: 3.0

Kean University Courses are in Blue (48-57 S.H.) Ocean County College Courses are in Green (63-72 S.H.)

GENERAL EDUCATION: 42 S.H. ACADENIC MAJOR COURSES: 38-39 S.H. Foundation Requirements: 15 S.H. "MAJOR REQUIRES DOURSES Biology" 24 S.H. FOI 1030 Centeral Biology I Tensition of Kenn'er Transfer Transford 1 BIO 1300 General Biology I. BIOL 162 General Biology II. BIOL 162 General Biology II. BIOL 162 General Biol	EFFECTIVE DATE: Fall 2023	ity Courses are in Blue (48-57 S.F See the			log for Requirements to Graduate with	Honors
GE 1000 2000 Transition for Man ² or Transitions ³ 1 BID 1200 General Biology I BID 1200 General Biology II BID 1200 General Biology III BID 1200 General Biology IIII BID 1200 General Biology IIII BID 1200 General Biology IIIIIIIII BID 1200 General Biology IIIIIIIIIIIIIIIIII	SENERAL EDUCATION: 42 S.H.					
ENG 103 Coluça Congresition" ENGL 151 English II 3 BD 1400 Caneral Bology III Bology III Regured 4 MAHT 1054 Precedulus 1 3 BD 1400 Caneral Bology III English III 3 BD 0340 Zoology: Form and Function 4 COMM 1402 Speach Communication? Math 192 Precedulus II 3 BD 0340 Zoology: Form and Function 4 COMM 1402 Speach Communication? Math 192 Precedulus II 3 BD 0340 Zoology: Form and Function 4 DISCIPLINARY & INTERDISCIPLINARY ENGL 152 English II 3 BD 0340 Zoology: Form and Function 4 Mage Electives: 11-12 SI. BD 0340 Zoology: Form and Function 4 4 DISCIPLINARY & INTERDISCIPLINARY ENGL 152 English II 3 BD 0340 Zoology: Form and Function 4 Mage Electives: 11-12 SI. BD 0340 Zoology: Form and Function 4 5 4 4 Precision Rest Port Mits Rest Port Rest Port Mits Rest Port Rest Port Mits Rest Port		13 S.H.		**MAJOR REQUIRED COURSES Biology ¹		24 S.H.
MATH 1054 Precalculus ¹⁴ Math 191 Precalculus II 3 BIO 2500 Principles of Extory 4 COMM 1402 Speech Communication ¹ Math 192 Precalculus II 3 BIO 3604 Principles of Extory 4 GE 2024 Research & Technology ENGL 152 English II 3 BIO 3614 Principles of Cacobgy (WE) 4 BIO 3709 Principles of Cacobgy (WE) 4 4 4 4 Distribution Requirements: 29 SH. BIO 3709 Principles of Cacobgy (WE) 4 BIO 3709 Principles of Cacobgy (WE) 4 BIO 3709 Principles of Cacobgy (WE) 4 BIO 2600 Principles of Cacobgy (WE) 4 BIO 3709 Principles of Cacobgy (WE) 4 BIO 2700 Principles of Cacobgy (WE) 4 BIO 3709 Principles of Cacobgy (WE) 4 BIO 2700 Principles of Cacobgy (WE) 4 BIO 3709 Principles of Cacobgy (WE) 4 Humanities: 9 SH. 7 BIO 2700 Principles of Cacobgy (WE) 4 Printerschart Any two GHUM OCC Courses 3 SH. BIO 4970 Seminar in Integrative Biology 3 Social Sciences: 9 Hut biol (MI occ Biol Moto and Biol Moto biol Biological Research) 122 SH. Bio 4970 Seminar in Integrative Biology 3 Choose Two "GE-Approved" Social Science Courses (GESS) 9 SH. At least 10 credits must be at the 3000 - 4000 level			1			·
COMM 1402 Speech Communication ¹ Math 192 Precideuus II 3 BIO 3400 Zoology: Form and Function 4 GE 2024 Research & Technology ENGL 152 English II 3 BIO 3612 Principles of Ecology (WE) 4 DISCIPLINARY & INTERDISCIPLINARY ENGL 152 English II 3 BIO 3612 Principles of Ecology (WE) 4 DISCIPLINARY & INTERDISCIPLINARY ENGL 152 English II 3 BIO 3612 Principles of Ecology (WE) 4 Main Tiele Control (Control (Cont						·
GE 2024 Research & Technology ENGL 152 English II 3 BID 3614 Phinciples of Ecology (W-E) 4 DISCIPLINARY & INTERDISCIPLINARY Distribution Requirements: 29 S.H. 29 S.H. BID 3610 Phinciples of Genetics 11-12 S.H. Bio 2010 Phinciples of Genetics 11-12 S.H. Bio 2010 Phinciples of Genetics 11-12 S.H. Bio 2010 Phinciples of Genetics 11-12 S.H. Bio 2010 Phinciples of Genetics 11-12 S.H. File CA03 World Literature Literature Gen Ed 3 - Choose Two "GE-Approved" Humanities Courses (GEHU) - - Fine ArXM1 History - - - Philosophy or Religion - - - Foreign Language must take I and II for overal Any two GHUM OCC Courses 3 - Masic or Theatre 9 S.H. - - - Choose Two "GE-Approved" Social Science: 9 S.H. A fleast 10 credits must be at the 300 - 4000 level 19-21 SH Social Science: 9 S.H. A fleast 10 credits must be at the 300 - 4000 level 19-21 SH Masic or Theatre 9 S.H. A fleast 10 credits must be at the 300 - 4000 level 1-2 Choose Two "GE-Approved" Social Science Courses (GESS) - - - Psychology Any two OCC GSOC courses 3 -		Math 191 Precalculus I	3			4
Choose Nov GeLApproved" Social Science Courses (GEHU) BIO 3709 Principles of Genetics 11-12 S.H. Bio Courses Inholded for Biology majors at 2000 - 4000 level are aligible as Biology Major Electives: 10.0 Major Elective: 10.0 M	COMM 1402 Speech Communication ³	Math 192 Precalculus II	3	BIO 3400 Zoology: Form and Function		4
DISCIPLINARY A INTERDISCIPLINARY **Major Electives: 11-22.8.1. Distribution Requirements: 29.5.1. **Major Electives: 11-22.8.1. Mayer Electives: 29.5.1. **Major Electives: 11-22.8.1. Wayer Electives: 9.5.1. ** ** 11-22.8.1. ** Station Requirements: 9.5.1. * * * ** Choose Two "6E-Approved" Humanities Courses (GEHU) * </td <td>GE 2024 Research & Technology</td> <td>ENGL 152 English II</td> <td>3</td> <td colspan="2"></td> <td>4</td>	GE 2024 Research & Technology	ENGL 152 English II	3			4
*TENG 2403 World Literature Literature Gen Ed 3 Choose Two "GE-Approved" Humanities Courses (GEHU) ***Main Arst-Art History Philosophy or Religion Any two GHUM OCC Courses 3 Pridio Courses Any two GHUM OCC Courses 3 Interdisciplinary (D1 100, D 1500, D 320) Any two GHUM OCC Courses 3 Social Sciences: 9 S.H. Bio 4970 Seminar in Integrative Biology 3 **HST 1062 Worlds Of History History Gen Ed 3 (Optional course) Bio 3291-3 Internship* 1-3 Choose Two "GE-Approved" Social Science Courses (GESS) 9 S.H. At teast 10 credits must be at the 3000 - 4000 level 1-22 Psychology Any two OCC GSOC courses 3 Elective 1000-4000 STSC 150 Student Success 2 Economics/ES 1010 World Geography Any two OCC GSOC courses 3 * * Ge required courses * Science and Mathematics (GESM): Math 156 Statistics 18 * * * * CHEM 1083 Chemistry I ⁶ CHEM 187 Gen Chem II 4 * * * * * Choose Evo "GE-SD Organic Chemistry II ⁶ CHEM 188 Gen Chem II 3 *				**Major Electives: 11-12 S.H. Bio Courses intended for Biology majors at 2000 - 4000 level are eligible as Biology Major Electives ^{1,6,7,8}		
Choose Two "GE-Approved" Humanities Courses (GEHU) Image: Choose Two "GE-Approved" Humanities Courses (GEHU) Fine Arts/Art History Any two GHUM OCC Courses 3 Proteign Language (must take I and II for credit) Any two GHUM OCC Courses 3 Music or Therete Interdisciplinary (ID 100, ID 1500, ID 320) 19-21 SH Social Sciences: 9 S.H. At least 10 credits must be at the 3000 - 4000 level 19-21 SH Attors Two "GE-Approved" Social Science Courses (GESS) 9 S.H. At least 10 credits must be at the 3000 - 4000 level 19-21 SH Choose Two "GE-Approved" Social Science Courses (GESS) Psychology 1-2 (Optional course) Bio 1996 Intro to Biological Research [#] 1-2 Psychology Economics/ES 1010 World Geography Any two OCC GSOC courses 3 3 * Science and Mathematics (GESM): Math 156 Statistics 3 * * * * Ge required courses * 1-2 * * * * Ge required courses 2 2 * 2 * 1-2 * * 1-2 * * Ge required courses 2 2 * 1-3 * * Science and Mathem	Humanities:		9 S.H.			
Fine Arts/Art History Any two GHUM OCC Courses 3 Philosophy or Religion Any two GHUM OCC Courses 3 Music or Theatre Bio 4970 Seminar in Integrative Biology 3 Social Sciences: S.H. At least 10 credits must be at the 3000 - 4000 level 19-21 SH YHIST 1062 Worlds Of History History Gen Ed 3 (Optional course) Bio 1996 Intro to Biological Research ⁸ 1-2 Choose Two "GE-Approved" Social Science Courses (GESS) Elective 1000-4000 STSC 150 Student Success 2 Psychology Any two OCC GSOC courses 3 Elective 1000-4000 Tech Gen Ed 3 Science and Mathematics (GESM) : Math 156 Statistics 1 Stere and Mathematics (GESM) : 1 Stere and Mathematics (GESM) : 1 ADDITIONAL REQUIRED COURSES: 19 - 20 SH, Chem 283 Organic Chem II 3 *Generative sense reline a grade of C or better *All major courses Reline a grade of C or bitler *All major courses require a grade of C or better *ADDITIONAL REQUIRED COURSES: 19 - 20 SH, *Generative reline and maters entering with 0.29 credits) OR complete GE 3000 (and lenshner and maters entering with 0.29 credits) OR complete GE 3000 (and lenshner and maters entering with 0.29 credits) OR complete GE 3000 (and lenshner and maters entering with 0.29 credits) OR com	*ENG 2403 World Literature	Literature Gen Ed	3			
Fine Arts/Art History Any two GHUM OCC Courses 3 Philosophy or Religion Any two GHUM OCC Courses 3 Music or Theatre Bio 4970 Seminar in Integrative Biology 3 Social Sciences: S.H. At least 10 credits must be at the 3000 - 4000 level 19-21 SH YHIST 1062 Worlds Of History History Gen Ed 3 (Optional course) Bio 1996 Intro to Biological Research ⁸ 1-2 Choose Two "GE-Approved" Social Science Courses (GESS) Elective 1000-4000 STSC 150 Student Success 2 Psychology Any two OCC GSOC courses 3 Elective 1000-4000 Tech Gen Ed 3 Science and Mathematics (GESM) : Math 156 Statistics 1 Stere and Mathematics (GESM) : 1 Stere and Mathematics (GESM) : 1 ADDITIONAL REQUIRED COURSES: 19 - 20 SH, Chem 283 Organic Chem II 3 *Generative sense reline a grade of C or better *All major courses Reline a grade of C or bitler *All major courses require a grade of C or better *ADDITIONAL REQUIRED COURSES: 19 - 20 SH, *Generative reline and maters entering with 0.29 credits) OR complete GE 3000 (and lenshner and maters entering with 0.29 credits) OR complete GE 3000 (and lenshner and maters entering with 0.29 credits) OR complete GE 3000 (and lenshner and maters entering with 0.29 credits) OR com						
Philosophy or Religion Any two GHUM OCC Courses 3 Foreign Language (must ket and II for credit) Any two GHUM OCC Courses 3 Music or Thematere Bio 4970 Seminar in Integrative Biology 3 Interdisciptinary (ID 1300, ID 1500, ID 3230) Scial Sciences: 9 S.H. At least 10 credits must be at the 3000 - 4000 level 19-21 SH At least 10 credits must be at the 3000 - 4000 level 19-21 SH At least 10 credits must be at the 3000 - 4000 level 19-21 SH Choose Two "GE-Approved" Social Science Courses (GESS) Electives 1000-4000 STSC 150 Student Success 2 Psychology Any two OCC GSOC courses 3 Elective 1000-4000 Tech Gen Ed 3 Sciance and Mathematics (GESM) : 11 S.H *GE required courses *GE required courses *GE required courses * Math 1016 Statistics Math 156 Statistics 3 *All major courses require a grade of C or better ** ADDITIONAL REQUIRED COURSES: 19-20 S.H. * Chem 283 Organic Chem II 4 Chem 283 Organic Chemistry I ⁰ Chem 284 Organic Chem Lab II * * * Chem 283 Organic Chemistry Lab & Chem 284 Organic Chem Lab II		s Courses (GEHU)				
Foreign Language (must take 1 and II for credit) Music or Theatre Interdisciplinary (D 1300, D 1500, D 1200) Any two GHUM OCC Courses 3 Bio 4970 Seminar in Integrative Biology 3 Interdisciplinary (D 1300, D 1500, D 1200) 9 S.H. At teast 10 credits must be at the 3000 - 4000 level 1-2 Social Sciences: 9 S.H. At teast 10 credits must be at the 3000 - 4000 level 1-2 Choose Two "GE-Approved" Social Science Courses (GESS) Elective 1000-4000 STSC 150 Student Success 2 Psychology Elective 1000-4000 STSC 150 Student Success 2 Economics/ES 1010 World Geography Any two OCC GSOC courses 3 Special Notes: 1 Science and Mathematics (GESM) : Math 165 Statistics 3 * Special Notes: 1 CHEM 1083 Chemistry I ⁶ CHEM 181 Gen Chem I 4 * * See Precipical Sites & Equivalencies (felow). * ADDITIONAL REQUIRED COURSES: 19 -20 S.H. Chem 283 Organic Chem II 3 * * * * * * * * * * * * * * *		4				
Interdisciplinary Ling Log Luby Control Contervice Control Control Control Control Cont			3	**Major /GE Capstone		3 S.H .
Indiade (introllate) Interdisciplinary (D1 300, D 1500, D 320) Interdisciplinary (D 200, STSC 150 Student Success 2 Interdisciplinary (D 200, STSC 150 Student Success 2 Interdisciplinary (D 200, STSC 150 Student Success 2 Interdisciplinary (D 2415) Interdisciplinary (D		Any two GHUM OCC Courses	5	Bio 4970 Seminar in Integrative Biology		3
Social Sciences: 9 S.H. At least 10 credits must be at the 3000 - 4000 level "HIST 1062 Worlds Of History History Gen Ed 3 (Optional course) Bio 1996 Intro to Biological Research ³ 1-2 Choose Two "GE-Approved" Social Science Courses (GESS) (Optional course) Bio 3291-93 Internship ^{3.9} 1-3 Choose Two "GE-Approved" Social Science Courses (GESS) Elective 1000-4000 STSC 150 Student Success 2 Psychology Any two OCC GSOC courses 3 Elective 1000-4000 Tech Gen Ed 3 Science and Mathematics (GESM): Any two OCC GSOC courses 3 Science Addition of the statistics 3 CHEM 1083 Chemistry 1 ⁶ CHEM 181 Gen Chem I 4 Science Courses *GE required courses ADDITIONAL REQUIRED COURSES: 19 - 20 S.H. Optimal Statistics 3 Chem 283 Organic Chemistry I ^{6,7} Chem 283 Organic Chem II 3 complete GE 3000 (larnsfers entering with 0-29 credits) OR complete GE 300 (larnsfers entering with 0-29 credits) OR complete GE 300 (larnsfers entering with 0-29 credits) OR complete GE 300 (larnsfers entering with 0-29 credits) OR complete GE 300 (larnsfers entering with 0-29 credits) OR complete GE 300 (larnsfers entering with 0-29 credits) OR complete GE 300 (larnsfers entering with 0-29 credits) OR complete GE 300 (larnsfers entering with 0-29 credi		-				40.04.011
*HIST 1062 Worlds Of History History Gen Ed 3 (Optional course) Bio 1996 Intro to Biological Research ³ 1-2 Choose Two "GE-Approved" Social Science Courses (GESS) Psychology 1-3 (Optional course) Bio 3291-93 Internships ^{3,9} 1-3 Psychology Elective 1000-4000 STSC 150 Student Success 2 Sociology/Anthropology Any two OCC GSOC courses 3 Elective 1000-4000 Tech Gen Ed 2 Science and Mathematics (GESM) : Any two OCC GSOC courses 3 Elective 1000-4000 Tech Gen Ed 2 Science and Mathematics (GESM) : It S.H Special Notes: 2 2 CHEM 1083 Chemistry I [®] CHEM 181 Gen Chem I 4 *GE required courses **All major courses require agrade of C or better **Math 1016 Statistics Math 156 Statistics 19 -20 S.H. *Generation I and transfers entering with 0-29 credits) OR ChEM 1084 Chemistry I [®] Chem 283 Organic Chem II 3 *Generation I and transfers entering with 0-29 credits) OR Chem 2581 L Organic Chemistry II [®] Chem 284 Organic Chem II 3 *Generation Is [®] Chem 2581 L Organic Chemistry Lab & Recitation I [®] Chem 284 Organic Chem Lab II 1 *Generation I [®] <td< td=""><td></td><td></td><td>0 S H</td><td colspan="2"></td><td>19-21 30</td></td<>			0 S H			19-21 30
Choose two "GE-Approved" Social Science Courses (GESS) (Optional course) Bio 3291-93 Internship ^{1/3} 1-3 Psychology Economics/ES 1010 World Geography Elective 1000-4000 STSC 150 Student Success 2 Political Science Any two OCC GSOC courses 3 Interdisciplinary (ID 2415) Special Notes: Special Notes: Special Notes: * GE required courses **All major courses require a grade of C or better ************************************		History Gen Ed				1.2
Choose Two "GE-Approved" Social Science Courses (GESS) Elective 1000-4000 STSC 150 Student Success 2 Psychology Economics/ES 1010 World Geography Any two OCC GSOC courses 3 Image: Comparison of the second state in th					<u> </u>	
Psychology Economics/ES 1010 World Geography Any two OCC GSOC courses 3 Sociology/Anthropology Interdisciplinary (ID 2415) Image: Special Notes: Image: Special Notes: Special Notes: Science and Mathematics (GESM): Math 156 Statistics Math 156 Statistics Image: Special Notes: * GE required courses * All major courses require a grade of C or better ** Most graduate programs require candidates to have a minimum GPA of 3.0 'see Prerequisites & Equivalencies (below). CHEM 1083 Chemistry II® CHEM 181 Gen Chem II 4 'see Prerequisites & Equivalencies (below). 2University 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 complete GE 1000 (all reshmen and transfers entering with 0-29 credits) OR complete GE 1000 (all requires a grade or C or higher Chem 2581 L Organic Chemistry II Chem 283 Organic Chem II 3 Chem 2581 L Organic Chemistry Lab & Chem 283 Organic Chem Lab II 1 * Recitation 16-7 Phys 2091 General Physics I® Phys 281 General Physics I 4 * Maximum of 2 credits for BIO 1996 or BIO 3900 are allowed. BIO 2402, BIO 2403, BIO 2404 are excluded because these are non-major courses. BIO 1996 is an optional course. * Dubris of 1000 Intro to Sustanability Science Phys 282 General Physics I 34	Choose Two "GE-Approved" Social Scie	ence Courses (GESS)				
Economics/ES 1010 World Geography Political Science Any two OCC GSOC courses 3 Sociology/Anthropology Interdisciplinary (ID 2415) Any two OCC GSOC courses 3 Science and Mathematics (GESM) : 11 S.H Math 1016 Statistics Math 156 Statistics 3 CHEM 1083 Chemistry I ⁶ CHEM 181 Gen Chem I 4 CHEM 1084 Chemistry II ⁶ CHEM 182 Gen Chem II 4 ADDITIONAL REQUIRED COURSES: 19 -20 S.H. ''See Prerequisites & Equivalencies (below). Chem 2581 Organic Chemistry II ⁶ Chem 284 Organic Chem II 3 Chem 2581 L Organic Chemistry Lab & Recitation I ^{6.7} Chem 284 Organic Chem Lab II 1 Phys 2091 General Physics I ⁶ Phys 281 General Physics I 1 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 34 Phys 2092 General Physics I ⁶ Phys 282 General Phys I or Envi 241 Environmental Sust. 34			-			
Political Science Any two OCC GSOC courses 3 Sociology/Anthropology Interdisciplinary (ID 2415) Special Notes: Science and Mathematics (GESM) : 11 S.H Math 1016 Statistics Math 156 Statistics 3 CHEM 1083 Chemistry I ⁶ CHEM 181 Gen Chem I 4 CHEM 1084 Chemistry II ⁶ CHEM 182 Gen Chem II 4 ADDITIONAL REQUIRED COURSES: 19 -20 S.H. 'See Prerequisites & Equivalencies (below). Chem 2581 Organic Chemistry I ^{6.7} Chem 283 Organic Chem II 3 Chem 2581 Lorganic Chemistry II Chem 284 Organic Chem Lab I 1 Chem 2581 Lorganic Chemistry Lab & Recitation I ^{6.7} Chem 284 Organic Chem Lab I 1 Phys 2091 General Physics I ⁶ Phys 281 General Physics I 1 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 34 Phys 2092 General Physics I ⁶ or Sust Phys 282 General Physics I 34 Phys 2092 General Physics I ⁶ or Sust Phys 282 General Physics I 34		-				
Sociology/Anthropology Image: Science and Mathematics (GESM) : <		Any two OCC GSOC courses	3			
Interdisciplinary (ID 2415) Special Notes: Science and Mathematics (GESM) : 11 S.H Math 1016 Statistics Math 156 Statistics 3 CHEM 1083 Chemistry I [®] CHEM 181 Gen Chem I 4 CHEM 1084 Chemistry II [®] CHEM 181 Gen Chem I 4 ADDITIONAL REQUIRED COURSES: 19 -20 S.H. * See Prerequisites & Equivalencies (below). Chem 2581 Organic Chemistry II [®] Chem 283 Organic Chem II 3 Chem 2582 Organic Chemistry III Chem 284 Organic Chem Lab II 1 Chem 2581 L Organic Chemistry Lab & Chem 283 Organic Chem Lab II 1 Phys 2091 General Physics I [®] Phys 281 General Physics I Phys 282 General Physics I Phys 2092 General Physics II or Sust 1000 Intro to Sustainability Science Phys 282 General PhysICs I 344			Ŭ			
Science and Mathematics (GESM) : 11 S.H Math 1016 Statistics 11 S.H Math 1016 Statistics 3 CHEM 1083 Chemistry I ⁶ CHEM 181 Gen Chem I 4 CHEM 1084 Chemistry II ⁶ CHEM 181 Gen Chem I 4 ADDITIONAL REQUIRED COURSES: 19 -20 S.H. *** Most graduate programs require candidates to have a minimum GPA of 3.0 Chem 2581 Organic Chemistry II Chem 283 Organic Chem I 3 Chem 2582 Organic Chemistry LI Chem 284 Organic Chem I 3 Chem 2581 L Organic Chemistry Lab & Recitation I ^{6.7} Chem 284 Organic Chem Lab I 1 Phys 2091 General Physics I ⁶ Phys 281 General Physics I 4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 3-4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 3-4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 4- Phys 2092 General Physics I ⁶ Phys 282 General Physics I 4- Phys 2092 General Physics I ⁶ Phys 282 General Physics I		7				
Math 1016 Statistics Math 156 Statistics 3 CHEM 1083 Chemistry I ⁶ CHEM 181 Gen Chem I 4 CHEM 1084 Chemistry II ⁶ CHEM 182 Gen Chem II 4 ADDITIONAL REQUIRED COURSES: 19 -20 S.H. *** Most graduate programs require candidates to have a minimum GPA of 3.0 Chem 2581 Organic Chemistry I ^{6,7} Chem 283 Organic Chem II 3 Chem 2582 Organic Chemistry II Chem 284 Organic Chem Lab I 3 Chem 2581 L Organic Chemistry Lab & Recitation I ^{6,7} Chem 284 Organic Chem Lab I 1 Phys 2091 General Physics I ⁶ Phys 281 General Physics I 4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 4 Phys 2092 General Physics II or Sust 1000 Intro to Sustainability Science Phys 282 General Phys II or Envi 241 Environmental Sust. 3-4 See pages 2 and 3 for General Information See pages 2 and 3 for General Information See pages 2 and 3 for General Information				Special Notes:		
Math 1016 Statistics Math 156 Statistics 3 **All major courses require a grade of C or better CHEM 1083 Chemistry I ⁶ CHEM 181 Gen Chem I 4 **Most graduate programs require candidates to have a minimum GPA of 3.0 CHEM 1084 Chemistry II ⁶ CHEM 182 Gen Chem II 4 **Most graduate programs require candidates to have a minimum GPA of 3.0 ADDITIONAL REQUIRED COURSES: 19 -20 S.H. **Most graduate programs require candidates to have a minimum GPA of 3.0 Chem 2581 Organic Chemistry II Chem 283 Organic Chem II 3 Chem 2581 L Organic Chemistry Lab & Recitation I ^{6,7} Chem 283 Organic Chem Lab II 1 Chem 258I L Organic Chemistry Lab & Recitation I ^{6,7} Chem 284 Organic Chem Lab II 1 Phys 2091 General Physics I ⁶ Phys 281 General Physics I 4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 4 Phys 2092 General Physics I ⁶ Phys 282 General Physics I 3 1000 Intro to Sustainability Science Phys 282 General Phys II or Envi 241 Environmental Sust. 3	Science and Mathematics (GESM) :		11 S.H	* GE required courses		
CHEM 1083 Chemistry I ⁶ CHEM 181 Gen Chem I 4 CHEM 1084 Chemistry II ⁶ CHEM 182 Gen Chem II 4 ADDITIONAL REQUIRED COURSES: 19 -20 S.H. Chem 2581 Organic Chemistry I ^{6.7} Chem 283 Organic Chem II 3 Chem 2582 Organic Chemistry II Chem 284 Organic Chem Lab I 3 Chem 2581 L Organic Chemistry Lab & Recitation I ^{6.7} Chem 284 Organic Chem Lab I 1 Phys 2091 General Physics I ⁶ Phys 281 General Physics I 1 Phys 2092 General Physics II or Sust 1000 Intro to Sustainability Science Phys 282 General Phys II or Envi 241 Environmental Sust. 3-4	Math 1016 Statistics	Math 156 Statistics	3			
CHEM 1084 Chemistry II ⁶ CHEM 182 Gen Chem II 4 1 See Prerequisites & Equivalencies (below). ADDITIONAL REQUIRED COURSES: 19 -20 S.H. 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 complete GE 3000 (transfers entering with 30 credits or more). Chem 2581 Organic Chemistry II Chem 284 Organic Chem II 3 Chem 2581 L Organic Chemistry Lab & Recitation 1 ^{6,7} Chem 283 Organic Chem Lab I 1 Chem 2581 L Organic Chemistry Lab & Recitation 1 ^{6,7} Chem 284 Organic Chem Lab II 1 Phys 2091 General Physics I ⁶ Phys 281 General Physics I 4 Phys 2092 General Physics II or Sust 1000 Intro to Sustainability Science Phys 282 General Phys II or Envi 241 Environmental Sust. 3-4		CHEM 181 Gen Chem I	4			
ADDITIONAL REQUIRED COURSES: 19 -20 S.H. 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 complete GE 3000 (transfers entering with 30 credits or more). Chem 2582 Organic Chemistry II Chem 284 Organic Chem II 3 Chem 2581 L Organic Chemistry Lab & Recitation 1 ^{6,7} Chem 283 Organic Chem Lab I 1 Chem 2581 L Organic Chemistry Lab & Recitation 1 ^{6,7} Chem 284 Organic Chem Lab I 1 Phys 2091 General Physics I ⁶ Phys 281 General Physics I 4 Phys 2092 General Physics II or Sust 1000 Intro to Sustainability Science Phys 282 General Phys II or Envi 241 Environmental Sust. 3-4						
Chem 2581 Organic Chemistry I ^{6,7} Chem 283 Organic Chem I 3 complete GE 3000 (transfers entering with 30 credits or more). Chem 2582 Organic Chemistry II Chem 284 Organic Chem II 3 BNG 1030 requires a grade or C or higher Chem 2581 L Organic Chemistry Lab & Recitation I ^{6,7} Chem 283 Organic Chem Lab I 1 Both I & II must be completed giving credit as a foreign language plus one free elective Chem 2581 L Organic Chemistry Lab & Recitation I ^{6,7} Chem 284 Organic Chem Lab II 1 Form 284 Organic Chem Lab II 1 Phys 2091 General Physics I ⁶ Phys 281 General Physics I 4 Maximum of 2 credits for BIO 1996 or BIO 3900 are allowed. BIO 2402, BIO 2403, BIO 2404 are excluded because these are non-major courses. BIO 1996 is an optional course. ⁹ Optional course. Grade is Pass or Fail. Biology major elective credits may be given instead of free elective credits (on a case-by-case basis). See pages 2 and 3 for General Information						
Chem 2582 Organic Chemistry II Chem 284 Organic Chem II 3 Chem 2581 L Organic Chemistry Lab & Recitation 16.7 Chem 283 Organic Chem Lab I 1 Chem 2581 L Organic Chemistry Lab & Recitation 16.7 Chem 284 Organic Chem Lab I 1 Chem 2581 L Organic Chemistry Lab & Recitation 16.7 Chem 284 Organic Chem Lab II 1 Phys 2091 General Physics 16 Phys 281 General Physics I 4 Phys 2092 General Physics II or Sust 1000 Intro to Sustainability Science Phys 282 General Phys II or Envi 241 Environmental Sust. 3-4	ADDITIONAL REQUIRED COURSES:	19	-20 S.H.		-	29 credits) OR
Chem 2582 Organic Chemistry II Chem 284 Organic Chem II C 4 With qualifying placement test scores, this course may be substituted with an elective Chem 258I L Organic Chemistry Lab & Recitation 1 ^{6,7} Chem 283 Organic Chem Lab I 1 5 Both I & II must be completed giving credit as a foreign language plus one free elective Recitation 1 ^{6,7} Chem 284 Organic Chem Lab II 1 6 Requires a grade of C or higher Phys 2091 General Physics 1 ⁶ Phys 281 General Physics I 4 8 Maximum of 2 credits for BIO 1996 or BIO 3900 are allowed. BIO 2402, BIO 2403, BIO 2404 are excluded because these are non-major courses. BIO 1996 is an optional course. Phys 2092 General Physics II or Sust 1000 Intro to Sustainability Science Phys 282 General Phys II or Envi 241 Environmental Sust. 3-4	Chem 2581 Organic Chemistry I ^{6,7}	Chem 283 Organic Chem I	-			
Chem 258I L Organic Chemistry Lab & Recitation 16.7Chem 283 Organic Chem Lab I15 Both I & II must be completed giving credit as a foreign language plus one free elective 6 Requires a grade of C or higherChem 258II L Organic Chemistry Lab & Recitation 16.7Chem 284 Organic Chem Lab II116 Both I & II must be completed giving credit as a foreign language plus one free elective 6 Requires a grade of C or higher 7 Lecture course must be taken concurrently or prior to the corresponding lab. 8 Maximum of 2 credits for BIO 1996 or BIO 3900 are allowed. BIO 2402, BIO 2403, BIO 2404 are excluded because these are non-major courses. BIO 1996 is an optional course. 9 Optional course. Grade is Pass or Fail. Biology major elective credits may be given instead of free elective credits (on a case-by-case basis). See pages 2 and 3 for General Information	Chem 2582 Organic Chemistry II	Chem 284 Organic Chem II	3	 ⁴ With qualifying placement test scores, this course may be substituted with an elective ⁵ Both I & II must be completed giving credit as a foreign language plus one free elective ⁶ Requires a grade of C or higher ⁷ Lecture course must be taken concurrently or prior to the corresponding lab. ⁸ Maximum of 2 credits for BIO 1996 or BIO 3900 are allowed. BIO 2402, BIO 2403, BIO 2404 are excluded because these are non-major courses. BIO 1996 is an optional course. ⁹ Optional course. Grade is Pass or Fail. Biology major elective credits may be given instead of free elective credits (on a case-by-case basis). 		
Chem 258II L Organic Chemistry Lab & Recitation I ^{6,7} Chem 284 Organic Chem Lab II17 Lecture course must be taken concurrently or prior to the corresponding lab. ⁸ Maximum of 2 credits for BIO 1996 or BIO 3900 are allowed. BIO 2402, BIO 2403, BIO 2404 are excluded because these are non-major courses. BIO 1996 is an optional course. ⁹ Optional course. Grade is Pass or Fail. Biology major elective credits may be given instead of free elective credits (on a case-by-case basis). See pages 2 and 3 for General Information		Chem 283 Organic Chem Lab I	1			
Phys 2091 General Physics I ⁶ Phys 281 General Physics I 4 are excluded because these are non-major courses. BIO 1996 is an optional course. Phys 2092 General Physics II or Sust 1000 Intro to Sustainability Science Phys 282 General Phys II or Envi 241 Environmental Sust. 3-4 3-4	Chem 258II L Organic Chemistry Lab &	Chem 284 Organic Chem Lab II	1			
Phys 2092 General Physics II or Sust 1000 Intro to Sustainability Science Phys 282 General Phys II or Envi 241 Environmental Sust. 3-4 free elective credits (on a case-by-case basis). See pages 2 and 3 for General Information		Phys 281 General Physics I	4			
			3-4			
	Math 2415 Calculus I	Math 265 Calculus I	4	oce pages 2 and 3 101 General III		



For OCC Students transferring into Kean University with AS.GE.Science Option



GENERAL EDUCATION INFO & REQUIREMENTS

Testing and Placement

Incoming freshmen and transfer students may be placed in specific GE Foundations, Developmental or ESL courses as a result of testing prior to registration. Students may be exempt from testing due to SAT scores or prior college work.

Prerequisites and Equivalencies for GE Foundations Courses

_GE 1000: Required of all freshman and transfers entering with 0-29 credits. Prereq: None; Equivalent ID 1001 **GE 3000**: Required of all transfers entering with 30 credits or more. Prereq: 30 credits and ENG 1030. **ENG 1030** Prereq: Placement testing or exemption from placement testing. ENG 1025 if required by placement testing. Equiv: ENG 1031/32; ENB 1033/34; ENG 1430 (ESL version); ENG 1620 (Honors version) ENG 1020; 1400 **MATH 1000 or MATH 1044**: Prereq: MATH 0901 if required by placement testing. *MATH 1044 is available as a Foundation option for CBPM students only. Equiv. of MATH 1000: MATH 1001/1002, MATH 1003/1004, MATH 1051

MATH 1010 or 1016 or 1030: Prereq: MATH 0901 if required by placement testing. Co-requisite: MATH 0902 (only required, with advisement, based on placement test score and intended major)
 MATH 1054: Prereq: MATH 0901 if required by placement testing and MATH 1000

COMM 1402 Prereq: CS 0412 if required by placement testing. May be taken concurrently with ENG 1030; Equiv:

COMM 1400

GE 2021-2026 Research & Technology is offered as college-based course

GE 2021 College of BPM; GE 2022 College of EDU; GE 2023 All College

of CLA; GE 2024 College of SMT & NJSTEM & NWGC (Speech,

Language, and Hearing Science majors); GE 2025 SFPA & Michael

Graves College; GE 2026 Undecided Majors and other special

populations. Prereqs: CS 0412 if required by placement testing; ENG

1030 or equivalent course. Equiv: GE 2020

General Education Distribution Courses

All courses under GE Disciplinary/Interdisciplinary Distribution requirements must be selected from the Approved GE Distribution Course List. (GEHU Humanities; GESS Social Sciences; GESM Science and Mathematics.

Required GE Distribution Courses

ENG 2403 is a required Humanities Distribution course with an emphasis on diversity. Prereq: CS 0412 if required by placement testing; ENG 1030 or equivalent. Equiv.: ENG 2203 HIST 1062 is a required Social Sciences Distribution course. Prereq: None.

Foreign Language Credit

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. Credit for the first semester may be used as elective credit.



For OCC Students transferring into Kean University with AS.GE.Science Option



University Requirements

<u>GE 1000/3000 Requirement.</u> 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).

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 program advisor for specific information.

<u>Note:</u> Equivalent courses may be prior General Education or prerequisite coursework taken by students that is now discontinued.

<u>Prerequisites and corequisites may change; please consult KeanWise course descriptions for the</u> most current information. Some courses may require approved petitions.

Your major's department is located in the George Hennings Hall, Room C-124 on the Main Campus. The telephone number is 908-737-3650.

Course Prerequisites (Pre/Corequisites may change, consult Keanwise; Some course may require approved petitions) BIO 1300: Prerequisite MATH 1000, Corequisite MATH 1054 (precalc) BIO 1400: Prerequisite BIO 1300 or STME 1700 and STME 1799 BIO 2500: BIO 1300 or STME 1700 and STME 1799

BIO 3400: BIO 1400 or STME 1800 and STME 1899. CHEM 1084 or STME 1100 and STME 1199

BIO 3403: BIO 1400 or STME 1800 and STME 1899, CHEM 1084 or STME 1100 and STME 1199, GE 2024, or

instructor permission

BIO 3404: BIO 3403

BIO 3614: BIO 1400 or STME 1800 and STME 1899, MATH 1016 or instructor permission

BIO 3709: BIO 1400 or STME 1800 and STME 1899

BIO 4970: 20 credits of biology plus senior biology major status;

CHEM 1083: Prerequisite MATH 1000 (College Algebra); Corequisite MATH 1054 (Precalc)

CHEM 1084: MATH 1054, CHEM 1083 or STME 1000 and STME 1099 with grade of C or better

CHEM 2581 and 2581L: CHEM 1084 or STME 1100 and STME 1199 with grade of C or better

CHEM 2582 and 2582L: CHEM 2581 or STME 2681 and CHEM 2581L or STME 2682 with grade of C or better

MATH 2415: MATH 1054 (Precalc)

PHYS 2091: MATH 1054 (Precalc) or equivalent.

PHYS 2092: PHYS 2091