

**KEAN UNIVERSITY - COLLEGE OF NATURAL, APPLIED & HEALTH SCIENCES
(70197) B.A. IN BIOLOGY: TEACHER CERTIFICATION OPTION (P-12) 120 S.H.**

For students graduating from Ocean County College with the A.S. in General Studies with a Concentration in Science transferring to Kean University

Minimum GPA required for declaration into major and graduation: 3.0

Kean University Courses are in Blue (58 S.H.)

Ocean County College Courses are in Green (62 S.H.)

EFFECTIVE DATE: Fall 2019

See the Current Undergraduate Academic Catalog for Requirements to Graduate with Honors

GENERAL EDUCATION: 42 S.H. Foundation Requirements ¹ : 13 S.H.			ADDITIONAL REQUIRED COURSES 16 S.H.	
			CHEM 2180 PR. Org Chem Lecture ⁴	CHEM 283 Organic Chem I 4
			CHEM 2580L Pr Organic Chem Lab ⁵	
GE 3000 Transfer Transitions ²		1	ES 1000 Observing Earth	GEOG 161 World Physical Geography 3
ENG 1030 College Composition ³	ENG 151 English I	3	ID 2052 Human Exceptionality	3
MATH 1000 Algebra ⁴	MATH 191 Pre-Calc 1	3	PHYS 1001 Principles of Contemporary Physics	Any Physics Course (PHYS 171, 172, 281 or 282) 3
COMM 1402 Speech Comm ³	COMM 154 Fund of Pub Speak	3	PSY 2110 Adolescent Psychology	EDUC 261 Dev. of the Learner 3
GE 2024 Research & Technology	ENGL 152 English II	3	ACADEMIC MAJOR REQUIRED COURSES: 62 S.H. MAJOR REQUIRED COURSES: 24 S.H.	
DISCIPLINARY & INTERDISCIPLINARY Distribution Requirements: 29 S.H.			BIO 1300 General BIO I ⁶	BIOL 161 Biology I 4
Humanities: 9 S.H.			BIO 1400 General BIO II ⁷	BIOL 162 Biology II 4
*ENG 2403 World Literature	GHUM Literature	3	BIO 2500 Principles of Botany	4
Take two "GE Approved" courses from the following below:			BIO 33400 Zoology: Form & Function	4
Fine Arts/Arts History	Select one GHUM Humanities Gen Ed Course	3	BIO 3614 Principles of Ecology (WE)	4
Foreign Language (must take 1&2)			BIO 3709 Principles of Genetics	4
Philosophy or Religion			Biology Major Electives: 3-4 S.H. Selected with school advisement at 3000-4000 level	
Music or Theatre	Major Elective (3000-4000)	3-4		
ID 1300, ID 1500, ID 3200	***Major Capstone Course***: 3 S.H.			
Social Sciences: 9 S.H.			BIO 4970 Seminar in Integrative Biology	3
*HIST 1062 Worlds Of History	GSOC Social Science Gen Ed	3	Professional Education Courses: 31	
ID 2415 Small Group Comm	STSC 150 Student Success	2	EMSE 2801 Intro to Clinical Experience P-12 ^{**}	3
ID 1350 Intro to Env. Ethics	ENVI 152 Environmental Sci	4	EDUC 3000 Curriculum Evaluation & Learner ⁹	3
Science and Mathematics: 11 S.H.			EDUC 3401 Language Arts/Reading P-12 ⁹	3
MATH 1054 Pre-Calculus ^{3,4}	Math 192 Pre-Calc II	3	EMSE 3122 Technology in Education (Kean Ocean students can take ID 3051)	3
CHEM 1030/1030L Esse. of Chem ⁵	CHEM 181 Gen Chem I	4	EMSE 3230 Science Education P-12 ¹⁰	3
Science Elective ⁵ (ENV, ES, FSC, PHYS, SUST, ID)	CHEM 182 Gen Chem II	4	EMSE 4711 Field Experience Subj P-12 ^{11,12}	3
			EMSE 3903 Teaching English Language Learners	1
			EMSE 4811 Clinical II Practice in Sub Area P-12 ^{11,12,13,14,15}	9
			Education Major Capstone Course***: 3 S.H.	
			EDUC 4000 Teacher & Classroom: Prof Educ Capstone ^{14,15}	3
			Freshman research optional additional 1 credit	0-1

1. See Pre requisites & Equivalencies for GE
 2. University requirement for graduation for all transfer students that must be completed by taking GE 3000
 3. Requires a grade of a B- or higher
 4. With qualifying placement test scores, this course may be substituted with an elective
 5. Requires a grade of a C or higher
 6. If enrolled before 9/14 substitute BIO 2200
 7. If enrolled before 9/14 substitute BIO 2400
 8. The minimum GPA for programs in the College of Education is 3.0
 9. Should be completed prior to Clinical I
 10. Should be done in conjunction with Clinical I
 - 11-15. See below for explanation.
- * GE Distribution course required of all students
 ** Secondary Education Major: A grade of B- or better is required.
 ***Students may attempt to "test out" of the technology requirement. If they succeed, they should use MATH 192 Pre-Calculus II to replace the credits.