

KEAN UNIVERSITY – COLLEGE OF SCIENCE, TECHNOLOGY & MATHEMATICS
(FSCI/BIO) B.S. Forensic Science, Biology option: 120 S.H.
GPA required for Graduation: 2.5***

GENERAL EDUCATION¹: 31-32 S.H.		ACADEMIC MAJOR REQUIREMENTS: 52-58 S.H.	
Essential Learning Courses*: 16-17 S.H.		Major Required Courses **: 43 S.H	
Critical Reading & Academic Study Skills	4	BIO 1300 General Biology I: Cell Biology and Genetics	4
<i>All students must take 1 credit in Academic Study Skills: either GE*1000 or GE*3000</i>	1	BIO 1400 General Biology II: Evolution, Biodiversity, and Ecology	4
<i>All students must take 3 credits in Critical Reading from the GE PLO Course List.</i>	3	BIO 3709 Genetics	4
Written Communication²	3	BCHM4115 Biochemistry, BCHM4115L Biochemistry Lab ⁷	3 +1
<i>All students must take 3 credits in Written Communication from the GE PLO Course List.</i>		FSC1000 Introduction to Forensic Science	3
Speech Communication	3	FSC 1800 Forensic Science and the Law	3
<i>All students must take 3 credits in Speech Communication from the GE PLO Course List.</i>		FSC 2600 CSI Procedures	3
Quantitative & Scientific Reasoning³	6-7	FSC 2800 How to Get Away with Murder or CJ 2610 Criminology	3
<i>All students must take either MATH*1016 or MATH*1054⁴ (3 credits each).</i>	3	FSC 3300 Applied Forensic Science	4
<i>All students must take 3 or 4 credits in Scientific Reasoning from the GE PLO course list.</i>	3-4	FSC 3701 Forensic Toxicology	3
Core Competency Courses: 12 S.H.		FSC 4020 Forensic Biology	4
Intercultural Knowledge & Understanding	3	FSC 4709 Forensic Genetics, FSC 4709L Forensic Genetics Laboratory ⁷	3+1
<i>All students must take 3 credits in Intercultural Knowledge & Understanding from the GE PLO Course List.</i>			
Critical & Creative Thinking	3		
<i>All students must take 3 credits in the Critical & Creative Thinking from the GE PLO Course List.</i>			
Ethical Reasoning	3		
<i>All students must take 3 credits in Ethical Reasoning from the GE PLO Course List.</i>			
Wellness	3		
<i>All students must take 3 credits in Wellness from the GE PLO Course List.</i>		Major/GE Capstone **: 3 S.H.	
Inquiry & Analysis Passion Project 3 S.H.	3	FSC 4970 Forensic Science Capstone	3
<i>All students must take 3 credits in Inquiry & Analysis from the GE PLO Course List.</i>			
Additional Required Courses**,⁵: 30-37 S.H.		Major Electives****: 6 – 12 S.H.	
MATH 1054 Precalculus or MATH 1016 Statistics ⁵ (if not taken as GE)	3	Number of Major Elective Credits will depend on GE courses taken	
PHIL 2300 Introduction to Ethics (if not taken as GE)	3		
CHEM 1083 Chemistry I (if not taken at GE) ⁶	4		
CHEM 1084 Chemistry II ⁶	4		
CHEM 2581 Organic Chemistry I ^{6, 7}	3		
CHEM 2582 Organic Chemistry II ⁷	3	<i>Recent illicit drug use (five years), felony convictions, commission of crimes for which you have not been charged, drunk driving convictions, and co-habitation with drug users and/or felons will disqualify an applicant from most positions. The same qualifications apply to the required internships.</i>	
CHEM 2581L Organic Chemistry Laboratory I ^{6,7}	1		
CHEM 2582L Organic Chemistry Laboratory II ⁷	1		
MATH 2415 Calculus I ⁶	4		
PHYS 2091 General Physics I ⁶	4		
PHYS 2092 General Physics II	4		
CJ 2600 Criminal Justice in America	3	<i>Note: There are NO free electives in this degree</i>	

GENERAL EDUCATION AND UNIVERSITY REQUIREMENTS

GENERAL EDUCATION INFORMATION AND REQUIREMENTS

Testing and Placement

Incoming freshmen and transfer students may be placed in specific GE Essential Learning, 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 Essential Learning

Courses GE*1000

Required of all freshmen & transfers entering with 0-29 credits Pre-requisite: None
Equivalency: ID*1001

GE*3000

Required of transfers entering with 30 credits or more Pre-requisite: 30 credits and ENG*1030 (or equivalent)

ENG*1030

Pre-requisite: Placement testing or exemption from placement testing
Equivalency: ENG*1031/1032, ENG*1033/1034, ENG*1430, ENG*1620, ENG*1020, ENG*1400

MATH*1016

Pre-requisite: MATH*0901 if required by placement testing
Co-requisite: MATH*0902 should be taken concurrently with Math*1016 if required by placement testing

MATH*1054

Pre-requisite: MATH*0901 if required by placement testing and MATH*1000

COMM*1402

Pre-requisite: ENG*1031/1032 or ENG*1033/1034 if required by placement testing; May be taken concurrently with ENG*1030 Equivalency: COMM*1400

Inquiry & Analysis PLO

GE 2021- 2026: *Research and Technology* is offered as a college-based course.

Pre-requisite: CS*0412 if required by placement testing; Written Communication course
Equivalency: GE*2020

GE*2021: College of Business and Public Management

GE*2022: College of Education & College Health Professions and Human

Services GE*2023: College of Liberal Arts

GE*2024: College of Science, Mathematics, and Technology & College Health Professions and Human

Services GE*2025: Departments of Fine Arts, Music, and Theatre & Michael Graves College

GE*2026: Undecided Majors and other special populations

GE PLO Courses

Approved GE PLO Course List

All courses taken under the General Education Essential Learning and Core Competency requirements must be selected from the Approved General Education PLO Course List.

Foreign Language Credit

The three credits for a foreign language that may satisfy the GE Intercultural Knowledge & Understanding requirement are awarded only upon successful completion of the second of two semesters of study at the introductory or intermediate level. Credit for the first semester may be used as an elective.

UNIVERSITY REQUIREMENTS

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).

Writing-Emphasis Requirement

To graduate, all students are required to complete at least one "Writing Emphasis" course within their major. Such courses are designed to provide students with an opportunity to explore writing as it is done in their chosen field. Typically, 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.

Special Notes:

* GE required courses

**All courses require a grade of C or better

*** Most graduate programs require candidates to have a minimum GPA of 3.0

**** The number of credits for Major Electives will vary, depending on how many "Additional Required Courses" were taken under the GE categories.

1 See Prerequisites & Equivalencies (below).

2 ENG 1030 requires a grade of C or higher

3 Students in this major are strongly advised to take MATH 1054 and CHEM 1083, because these are the courses that serve as pre-requisites for advanced courses. MATH 1054 is a pre-requisite for MATH 2415 and co-requisite for BIO 1300 and CHEM 1083. CHEM 1083 is a prerequisite for CHEM 1084 (which must be followed by CHEM 2581, and CHEM 2582). Completing these courses early will help you stay on track for timely graduation.

4 With qualifying placement test scores, this course may be substituted with an elective

5 Either MATH 1054 or MATH 1016 will count as GE requirement, the other one will count as Additional Required Courses. Students in this degree must take both MATH 1054 and MATH 1016. One of the other Additional Required Courses may also count as GE requirement (e.g. CHEM 1083); students in this case will have to take a free elective equal in the credit number to satisfy the 120 credits requirement for the degree.

6 Requires a grade of C or higher to progress to next course

7 Lecture course must be taken concurrently or prior to the corresponding lab.

Course Prerequisites (Pre/Corequisites may change, consult the current catalog; Some courses may require approved petitions)

BIO 1300: MATH 1000 or equivalent placement

BIO 1400: Prerequisite BIO 1300 and Corequisite MATH 1054 (Precalculus)

BIO 2500: BIO 2400 (Genes, Org, Pop) or 1400 (Gen Bio II)

BIO 3400: BIO 2400 or 1400, CHEM 1086 (Chem II)

BIO 3614: BIO 2200 or 1300, or instructor permission

BIO 3709: BIO 2400 or 1400

BIO 4700: BIO 3709 & BCHM4115, BCHM4115L

BIO 4835: MATH 1054 (Precalculus) & 16 credits of biology

FSC 3300: FSC 2600

FSC 4709: Senior Level Standing

FSC 4020: FSC 2600 & BIO 3709

FSC 4030: BCHM4115, BCHM4115L

FSC 4970: senior level standing; GPA 2.5 required

FSC 1800: FSC 1000

FSC 2600: FSC 1000

FSC 2800: FSC 1800

FSC 3701: FSC 2600 and CHEM 1084

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

CHEM 1084: MATH 1054, & CHEM 1083 with grade of C or better

CHEM 2581: CHEM 1086 with grade of C or better

CHEM 2581L: Corequisite of CHEM 2581

CHEM 2582: CHEM 2581 with grade of C or better

CHEM 2582L: CHEM 2581L with grade of C or better & Corequisite of CHEM 2582

MATH 2415: MATH 1054 (Precalculus)

PHYS 2091: MATH 1054 (Precalculus) or equivalent

PHYS 2092: PHYS 2091