

**KEAN UNIVERSITY**  
**College of Natural, Applied and Health Sciences**  
**(Major Code 70308) B.S. in Biology: Forensic Science Option: 120 Semester Hours (S.H.)**  
 Minimum 2.5 Cumulative and Major GPA Requirement  
 [ver. 01.09.19; effective 09/22]

Name:		TRANSFER INSTITUTION(S)	
Student ID #		Start term at Kean:	
<b>GENERAL EDUCATION: 35 SH</b>		<b>ACADEMIC MAJOR COURSES: 61 SH</b>	
<b>Foundation Requirements<sup>1</sup></b>	<b>13 SH</b>	<b>Major Required Courses: Biology<sup>3</sup></b>	<b>20 SH</b>
GE 1000 Transition to Kean <sup>2</sup> OR GE 3000 Transfer Transitions <sup>2</sup>	1	BIO 1300 General Biology I	4
		BIO 1400 General Biology II	4
ENG 1030 College Composition <sup>3</sup>	3	BIO 3709 Genetics	4
MATH 1054 Pre-calculus	3	BCHM 4115 Biochemistry	3
COMM 1402 Speech Communication	3	BCHM 4115L Biochemistry Lab	1
GE 2024 Research & Technology	3	BIO 4700 Molecular Genetics	4
<b>DISCIPLINARY &amp; INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS:</b>		<b>Major Electives: Biology</b>	<b>4 SH</b>
<b>Humanities (GEHU)</b>	<b>6 SH</b>	BIO 2500 Principles of Botany	4
ENG 2403 World Literature	3	BIO 3315 Microbiology	3
PHIL 2300 Introduction to Ethics	3	BIO 3315L Microbiology Lab	1
<b>Social Sciences (GESS)</b>	<b>6 SH</b>	BIO 3260 Histology	4
HIST 1062 Worlds of History	3	BIO 3400 Zoology Forms & Function	4
<i>Select one course from the following</i>		BIO 3403 Anatomy and Physiology I	4
Economics/Geography	3	BIO 4225 Cell Physiology	4
Political Science	3	<b>Major Required Courses: Criminal Justice</b>	<b>9 SH</b>
Psychology	3	CJ 2600 Criminal Justice in America	3
Sociology/Anthropology	3	CJ 3700 Proof and Verification	3
Interdisciplinary	3	CJ 4100 Trial Advocacy	3
<b>Science and Mathematics (GESM)</b>	<b>7 SH</b>	<b>Major Required Courses: Forensic Science</b>	<b>18 SH</b>
MATH 1016 Statistics	3	FSC 1000 Intro to Forensic Science	3
CHEM 1083 Chemistry I <sup>4</sup>	4	FSC 2000 Forensic Science Fundamentals	3
<b>Major/GE Capstone<sup>3</sup></b>	<b>3 SH</b>	FSC 3000 Crime Scene Investigation	4
BIO 4970 Seminar in Integrative Biology	3	FSC 4010 Criminalistics & Trace Evidence	4
		FSC 4020 Forensic Biology	4
<b>ADDITIONAL REQUIRED COURSES:</b>	<b>24 SH</b>	<b>Free Electives</b>	<b>10 SH</b>
CHEM 1084 Chemistry II <sup>4</sup>	4	BIO 1996 Applied Research in Biology <sup>5</sup>	1
CHEM 2581 Organic Chemistry Lecture I <sup>4</sup>	3	BIO Internship 3291, 2, 3 <sup>5</sup>	1-3
CHEM 2582 Organic Chemistry Lecture II	3	Other Free Electives	6-10
CHEM 2581L Organic Chemistry Lab I <sup>4</sup>	1		
CHEM 2582L Organic Chemistry Lab II	1		
MATH 2415 Calculus I	4		
PHYS 2091 or PHYS 2095	4		
PHYS 2092 or PHYS 2196	4		

Minimum cumulative GPA of 2.5 at time of application for acceptance as declared major

Minimum 2.5 cumulative and major GPA requirement. Graduate Schools likely to require a 3.0 minimum for eligibility.

<sup>1</sup>See prerequisites & equivalencies

<sup>2</sup>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)

<sup>3</sup>ENG 1030, Capstone & Major Courses require C or higher

<sup>4</sup>C or higher needed to progress to next course

<sup>5</sup> BIO 1996 and/or BIO 3291, 2, 3 are optional choices to fulfill Free Electives

## **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**

**ENG 1030** Prereq: Placement testing; Equiv: ENG 1031/32; 1033/34; 1430; ENG 1020; 1400

**MATH 1054 Precalc** Prereq: 3 yrs secondary school math including 2 yrs algebra + 1 yr geometry or equivalent & qualifying score on placement exam or equivalent

**COMM 1402** Prereq: CS 0411 or 0412 if required by testing; ENG1031/32;1033/34Maybe taken concurrently w/ENG1030;Equiv:COMM1400

**GE 2021-2024** Research & Technology is offered as college-based course

GE 2021 College of BPA; GE 2022 College of ED; GE 2023 College of AHSS; GE 2024 College of NAHS

Prereq: ENG 1030 or equivalent & MATH 1000 or equivalent; Equiv: GE 2020

**Course Paired with Reading** Must be taken concurrently with CS 0412 if required by placement testing.

### **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; GEHPE Health and Physical Education)

### **Required GE Distribution Courses**

ENG 2403 is a required Humanities Distribution course with an emphasis on diversity. Prereq: ENG 1030 or equivalent

HIST 1062 is a required Social Sciences Distribution course with an emphasis on diversity.

### **Major/GE Capstone Course (a Capstone course is a major course that satisfies three credits of GE requirements.)**

Each major guide sheet will count three credits for the Capstone as either GE credits or major credits, but not both.

### **Course Prerequisites (Pre/Corequisites may change, consult Keanwise; Some course may require approved petitions)**

**BIO 1300:** Math 1000 (College Algebra) or the University's math placement exam score to qualify & Corequisite: MATH 1054 (precalculus) or instructor permission

**BIO 1400:** Prerequisite BIO 1300 and Corequisite CHEM 1083 General Chemistry I

**BIO 2500:** Prerequisite BIO 1300

**BIO 3315:** Prerequisite BIO 1400

**BIO 3315L:** Prerequisite BIO 1400

**BIO 3400:** Prerequisite GE 2024, BIO 1400 and CHEM 1084

**BIO 3403:** Prerequisite BIO 2400 and CHEM 2180 or 3181 or permission of instructor

**BIO 3620:** 12 credits in BIO including BIO 1300 and BIO 1400 or permission of instructor

**BIO 3709:** Prerequisite BIO 2400 or 1400

**BIO 4225:** Prerequisite CHEM 2582, CHEM 2584, & GPA 2.5 or higher

**BIO 4700:** BIO 3709 and BCH 4115 or permission of the instructor

**BIO 4970:** 20 credits of biology plus senior biology major status (requires approved petition)

**BCHM 4115:** BIO 1400, BIO 3315 and BIO 3315L

**BCHM 4115L:** BIO 1400, BIO 3315, and BIO 3315L

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

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

**CHEM 2581:** CHEM 1084 with grade of C or better

**CHEM 2582:** CHEM 2581 with grade of C or better

**CHEM 2581L:** Corequisite of CHEM 2581 or permission of instructor

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

**CJ 3700:** CJ 2600 or permission of instructor

**CJ 4100:** CJ 3685, 9 SH of CJ courses or permission of instructor

**FSC 2000:** FSC 1000 & CJ 2600

**FSC 3000:** CJ 3700 & FSC 2000

**FSC 4010:** CJ 3700 & FSC 2000

**FSC 4020:** FSC 2000 & BIO 3709

**MATH 1016:** MATH 0901 or placement testing

**MATH 2415:** MATH 1054 (Precalc)

**PHYS 2091:** MATH 1054 (Precalc) or equivalent

**PHYS 2092:** PHYS 2091

**PHYS 2095:** Prerequisites MATH 2415; Corequisite: MATH 2416

**PHYS 2196:** Prerequisites: PHYS 2095, MATH 2416