## KEAN UNIVERSITY - COLLEGE OF SCIENCE, MATHMATICS, AND TECHNOLOGY (76300) B.S. IN ENVIRONMENTAL SCIENCE 120 S.H.

Minimum GPA Required for Declaration: 2.5
Minimum GPA Required for Major: 2.5
Overall Minimum GPA Required for Graduation: 2.5


## B.S. IN ENVIRONMENTAL SCIENCE APPROVED MAJOR-RELATED ELECTIVES*

*Subject to change as new courses are approved and old courses are eliminated. Independent Research, Independent Study, and/or Special Topics courses not listed, but will be approved on an individual basis if appropriate. Any combination of 11 semester hours may be selected to fulfill graduation requirements however, students are strongly encouraged to select courses only after consultation with and approval of their advisor. Failure to do so may result in result in a less than optimal program experience.

| 1000 level courses | S.H. |  | S.H. |
| :---: | :---: | :---: | :---: |
| ECO 1020: Principles of Economics I | 3 | PS 1010: Introduction to Politics: Elements of Politics | 3 |
| ES 1200: Introduction to Geology | 4 | PSY 1000: General Psychology | 3 |
| ID 1350: Environmental Ethics | 3 | REC 1100: Introduction to the Recreation | 3 |
| 2000 level courses ${ }^{3}$ |  |  |  |
| BIO 2500: Principles of Botany | 3 | CHEM 2581 and CHEM 2581L: Organic Chemistry Lecture and Laboratory I** | 4 |
| CHEM 2180: Principles of Organic Chemistry ${ }^{1}$ | 4 | CHEM 2582L and 2582L: Organic Chemistry Lecture and Laboratory II***: | 4 |
| CHEM 2283: Quantitative Analysis** | 4 | ENV 2020: Evolutionary Biology | 3 |
| CHEM 2491: Inorganic Chemistry** | 3 | ENV 2500: Biomimicry | 4 |
|  |  | SUST 2008: Introduction to Composting | 4 |
|  |  |  |  |
| 3000 level courses ${ }^{3}$ |  |  |  |
| BIO 3000: Marine Biology | 4 | ES 3264: Invertebrate Paleontology | 4 |
| BIO 3315: Microbiology* | 3 | ES 3265: Geomorphology | 4 |
| BIO 3315L: Microbiology Lab* | 1 | ES 3360: Air Pollution | 3 |
| BIO 3400: Zoology: Form and Function | 4 | HIST 3852: History of Science | 3 |
| BIO 3535: Field Botany | 3 | PHIL 3800: Environmental Philosophy | 3 |
| ENV 3180: Environmental Organic Chemistry | 4 | PSY 3420: Environmental Psychology | 3 |
| ENV 3201: Biodiversity | 4 | REC 3810: Recreation and the Environment | 3 |
| ENV 3230: Urban Ecology | 4 | SOC 3150: Urban Sociology | 3 |
| ENV 3250: Medicinal Botany | 3 | SOC 3420: Environment and society | 3 |
| ENV 3380: Environmental Instrumentation | 4 | SUST 3100: Renewable Energy | 3 |
| ENV 3400: Environmental Oceanography | 4 | SUST 3200: Environmental Health and Safety for Sustainability | 3 |
| ENV 3600: Coral Reefs and Coastal Systems | 4 | SUST 3300: LEED Lab and AP Credential Preparation | 3 |
| ENV 3720: Entomology | 4 | SUST 3400: Intro to Environmental Engineering | 4 |
| ES 3000: Global Climate Change and Society | 4 | SUST 3600: Global Sustainability Development | 3 |
| 4000 level courses ${ }^{3}$ |  |  |  |
| BIO 4415: Ichthyology | 4 | ENV 4601: Marine Conservation | 4 |
| BIO 4615: Applied Ecology | 4 | ENV 4602: Marine Resource Management | 3 |
| BCHM 4415: Biochemistry**** | 3 | ENV 4605: Field Methods in Marine Research | 4 |
| BCHM 4415L: Biochemistry Lab*** | 1 | ENV 4800: Environmental Toxicology and Human Health | 4 |
| ENV 4103L Environmental Hazards | 4 | ES 4200: Remote Sensing | 4 |
| ENV 4710: Physiological Ecology | 4 | GBUS 4320: Global Business and Technology | 3 |
| ENV 4210: Conservation Biology | 4 | SUST 4000 Technology for Sustainability | 3 |
| ENV 4435: Behavioral Ecology | 3 | SUST 4110 Life Cycle Assessment | 4 |
| ENV 4600: Plant-Animal Interactions | 4 | SUST 4300 LEED and AP Prep | 4 |
|  |  | SUST 4500: Air and Solid Pollution Control | 4 |
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|  |  |  |  |
| ${ }^{1}$ Students may not receive credit for CHEM 2180 and CHEM [2581, 2582, 2581L and 2582L] |  | * Courses need to be taken together for both lab and lecture sections |  |
|  |  | ** Require CHEM1084 as a pre-requisite course |  |
|  |  | *** Require CHEM2581 as a pre-requisite course |  |
|  |  | **** Require CHEM2582 as a pre-requisite course |  |
|  |  |  |  |

## GENERAL EDUCATION INFORMATION AND 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 and/or multiple measures placement prior to registration. Students may be exempt from testing due to SAT/ACT scores or prior college work.

## Prerequisites and Equivalencies for GE Foundations <br> Courses <br> GE 1000/GE 3000 is a University Graduation Requirement GE 1000 <br> Required of all freshmen \& transfers entering with 0-29 credits <br> Prerequisite: None Equivalent: <br> ID 1001

GE 3000
Required of transfers entering with 30 credits or more Prerequisite: 30 credits and ENG 1030

## ENG 1030

Prerequisite: Placement testing or exemption from placement testing ENG 1025 if required by placement testing
Equivalent: ENG 1031/1032, ENG 1033/1034, ENG 1430 (ESL
version), ENG 1620 (Honors version), ENG 1020, ENG 1400

## MATH 1000 or MATH 1044*

Prerequisite: MATH 0901 if required by placement testing *MATH 1044 is available as a Foundation option for CBPM students only
Equivalent: MATH 1000: MATH 1001/1002, MATH 1003/1004, MATH 1051

MATH 1010 or 1016 or 1030
Prerequisite: 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

Prerequisite MATH 0901 if required by placement testing and MATH 1000

COMM 1402
Prerequisite CS 0412 if required by placement testing
ENG 1025 if required by placement testing
May be taken concurrently with ENG 1030
Equivalent COMM 1400
GE 2021-2026 Research and 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 NAHS \& NJCSTM \& NWGC (Speech Language and Hearing Science majors)
GE 2025 SFPA \& Michael Graves College
GE 2026 Undecided Majors and other special populations Prerequisite CS 0412 if required by placement testing; ENG 1030 or equivalent course
Equivalent: GE 2020

## GE Distribution Courses

## Approved GE Distribution

## Courses

All courses taken under the General Education Disciplinary/Interdisciplinary Distribution requirements must be selected from the Approved General Education Distribution Course List.
These courses are designated as GEHU, GESS, and GESM.
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.
Prerequisite: CS 0412 if required by placement testing;
ENG 1030 or equivalent
Equivalent: ENG*2203
HIST 1062 is a required Social Sciences Distribution course. Prerequisite: 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 the second of two semesters of study at the introductory or intermediate level.
Credit for the first semester may be used as elective credit

## 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

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.

Note: Equivalent courses may be prior General Education or prerequisite course work taken by students that is now discontinued

