# KEAN UNIVERSITY
## COLLEGE OF NATURAL, APPLIED and HEALTH SCIENCES
### (76201) B.S. IN EARTH SCIENCE (Geology Option) 124 S.H.
(Effective: 9/02)

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<th>NAME_______________________________</th>
<th>STUDENT I.D.#______________________</th>
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**GENERAL EDUCATION REQUIREMENTS**: 51-52 S.H.

**FOUNDATIONS REQUIREMENTS**: 12 S.H.
- ENG 1030 College Composition\(^2\) ________ 3 __
- MATH 1000 Algebra for Coll. Students\(^4\) ___ 3 ___
- COMM 1402 Speech Comm. As Crit. Cit.\(^3\) ___ 3 ___
- GE 2024 Research & Technology ______ 3 ___

**DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS**: 9 S.H.
- *ENG 2403 World Literature ________ 3 ___
- Fine Arts or Art History ____________ 3 ___
- Philosophy or Religion _____________ 3 ___
- Foreign Languages\(^*\)________________ 3 ___
- Music or Theatre ___________________ 3 ___
- Interdisciplinary ___________________ 3 ___

**HUMANITIES 9 S.H.**
- *HIST 1000 Hist. of Civil Soc. in Amer. ___ 3 ___
- Economics or Geography _____________ 3 ___
- Political Science ____________________ 3 ___
- Psychology __________________________ 3 ___
- Sociology or Anthropology ____________ 3 ___
- Interdisciplinary _____________________ 3 ___

**SOCIAL SCIENCES 9 S.H.**
- *ES 2200 Methods in Geoscience ______ 4 ___
- ES 3200 GIS in Geoscience ________ 4 ___
- GEOL 3261 Mineralogy _____________ 4 ___
- GEOL 3263 Structural Geology _______ 4 ___
- GEOL 3264 Invert. Paleontology ______ 4 ___
- GEOL 3265 Geomorphology __________ 4 ___
- GEOL 3281 Field Geology I_________ 2 ___
- GEOL 4252 Field Geology II_______ 2 ___

**SCIENCE & MATHEMATICS 11 S.H.**
- *MATH 1054 Precalculus\(^4\)__________ 3 ___
- CHEM 1083 Chemistry I _____________ 4 ___
- CHEM 1084 Chemistry II _____________ 4 ___

**HEALTH/PHYSICAL EDUCATION 2,3 S.H.**
- ID 1225 Issues Contemp. Health ______ 3 ___
- Physical Education ___________________ 1 ___
- Physical Education ___________________ 1 ___

**CONCENTRATION 8 S.H.**
- Phys 2091 General Physics I ______ 4 ___
- Phys 2092 General Physics II ______ 4 ___

\(^1\) Required of all Freshmen and Transfers with fewer than 10 Credits.
\(^2\) See prerequisites and equivalencies on page 3.
\(^3\) Eng 1030 College Comp, all major courses and Capstone, require a grade of C or better.

### TRANSFER INSTITUTIONS (X) CREDITS

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**ADDITIONAL REQUIREMENTS** 11 S.H.
- MATH 2411 Calculus I _________ 3 ___
- BIO 1000 Principles of Biology _______ 4 ___
- CPS 1231 Fund. of Computer Sci. __ 4 ___

**MAJOR AND CAPSTONE REQUIREMENTS** 56 S.H.
- GEOL 1200 Intro. to Geology ________ 4 ___
- ES 2200 Methods in Geoscience ______ 4 ___
- ES 3200 GIS in Geoscience ________ 4 ___
- GEOL 3261 Mineralogy _____________ 4 ___
- GEOL 3263 Structural Geology _______ 4 ___
- GEOL 3264 Invert. Paleontology ______ 4 ___
- GEOL 3265 Geomorphology __________ 4 ___
- GEOL 3281 Field Geology I_________ 2 ___
- GEOL 4252 Field Geology II_______ 2 ___
- GEOL 4265 Petrology. _____________ 4 ___
- GEOL 4266 Stratigraphy & Sed. ______ 4 ___

**MAJOR/GE CAPSTONE COURSE**
(Select either of the following)
- **ES 4953-4954 E.S.Seminar I&II WE ___ 4___
OR
- **ES 4963-4964 E.S.Hon.Sem. I&II WE ___ 4___

**MAJOR ELECTIVES** 12 S.H.
(Selected with Departmental Advisement)

- Phys 2091 General Physics I ______ 4 ___
- Phys 2092 General Physics II ______ 4 ___

**FREE ELECTIVES**: 4-5 S.H.

\(^4\) A student whose qualifying score on the placement test makes them eligible to take either Math 1054 or Math 2411 may take that course instead. In that case, either Math 1054 or Math 2411 will count as the General Education requirement and the student may take another 3 or 6 credits in Free Electives to total 124 S.H.

\(^5\) Credit granted only upon completion of both semesters of elementary or intermediate foreign language. Three credits may be applied to the Humanities and three credits may be applied to Free Electives.

\(^*\) Required Distribution Course.

**3 credits satisfy the GE Capstone requirement.**
Your major department is located in the Science Building, Room 323, phone (908) 527-2064.

YOU MUST BRING THIS EVALUATION AND YOUR KEAN UNIVERSITY TRANSCRIPT TO ALL ADVISING/REGISTRATION SESSIONS
ADDITIONAL MAJOR INFORMATION AND REQUIREMENTS

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 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 1000
Prereq: Placement testing
Equiv: MATH 1001/02; 1003/04; 1051

COMM 1402
Prereq: CS 0411 or 0412 if required by placement testing
Equiv: ENG 1030; 1033/34
May be taken concurrently with ENG 1030
Equiv: COMM 1400

GE 2021-2024
Research and 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.

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, printed in Registration Bulletin. These courses are designated as GEHU, GESS, GESM, GEHPE or GECP.

GEHU Humanities
GESS Social Sciences
GESM Science and Mathematics
GEHPE Health and Physical Education
GECP Approved GE Concentration Pairs:
   Special Disciplinary Pairs and Pairs Across Disciplines

Required GE Distribution Courses

ENG 2403 is a required Humanities Distribution course with an emphasis on diversity.

HIST 1000 is a required Social Sciences Distribution course with an emphasis on diversity.

MATH 1010, 1016, 1054, CPS 1031, 1032 or 1231 may be used to satisfy the Science and Mathematics Distribution requirement.

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.

GE Concentration Sequences
A concentration is a two-course sequence in the Liberal Arts and Sciences, outside the major, that builds upon an introductory GE Distribution course. Three different options for satisfying the concentration exist:

(1) two courses in the same discipline at the two thousand level or above; (2) two courses from different disciplines at the two thousand level or above that cover a similar topic or theme (students taking this second option must obtain approval from the GE office prior to registration);
(3) a preapproved pair of courses at the 1000 level or above that is published in the University Bulletin under GECP Distribution courses.

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.

UNIVERSITY REQUIREMENT

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.