

KEAN UNIVERSITY
SCHOOL OF NATURAL SCIENCES, NURSING AND MATHEMATICS
 (72199) **B.A. IN CHEMISTRY (Teacher Certification Option)** 133 S.H.
 (EFFECTIVE: 9/02)

TRANSFER INSTITUTIONS (X) _____ CREDITS _____

NAME _____
 STUDENT I.D.# _____
 START TERM _____

In Progress () _____
 Kean University() _____

ID 1001 Freshman Seminar¹ _____ 1 _____

ADDITIONAL REQUIREMENTS³ 28 S.H.

Math 2411 Calculus I⁴ _____ 3 _____
 Math 2412 Calculus II _____ 3 _____
 Math 3451 Calculus III _____ 3 _____
 Phy 3097 Physics III _____ 4 _____
 Psy 2110 Psy of Adolescence _____ 3 _____
 Bio 2200 Cell Biology _____ 4 _____
 Bio 4105 Essentials of Biochem _____ 4 _____
 Select one of the following courses:
 Geol 1200 Intro Geology OR _____
 Metr 1300 Intro Meteorology OR _____
 Astr 1000 Intro Astronomy OR _____
 Ocen 3453 Intro Oceanography _____ 4 _____

GENERAL EDUCATION AND ADDITIONAL LIBERAL ARTS REQUIREMENTS: 72 S.H.

GENERAL EDUCATION REQUIREMENTS 44 S.H.

FOUNDATIONS REQUIREMENTS²: 12 S.H.
 ENG 1030 College Composition³ _____ 3 _____
 MATH 1000 Algebra Coll. Students⁴ _____ 3 _____
 COMM 1402 Speech Communication As
 Critical Citizenship³ _____ 3 _____
 GE 2024 Research & Technology _____ 3 _____

MAJOR AND CAPSTONE REQUIREMENTS⁶ 33 S.H.

Chem 1083 Chemistry I _____ 4 _____
 Chem 1084 Chemistry II _____ 4 _____
 Chem 2283 Quantitative Analysis _____ 4 _____
 Chem 3181 Organic Chemistry Lec I _____ 3 _____
 Chem 3182 Organic Chemistry Lec II _____ 3 _____
 Chem 3183 Org Chem Lab I & Rec I_{WE} _____ 2 _____
 Chem 3184 Org Chem Lab II & Rec II _____ 2 _____
 Chem 3284 Instr Meth Of Analysis_{WE} _____ 4 _____
 Chem 3381 Physical Chemistry Lec I _____ 3 _____
 Chem 3901 Indt. Chem. Research I _____ 1 _____

DISCIPLINARY & INTERDISCIPLINARY

DISTRIBUTION REQUIREMENTS:

HUMANITIES 9 S.H.
 *ENG 2403 World Literature _____ 3 _____
 (Select two courses from different areas)
 Fine Arts or Art History _____ 3 _____
 Philosophy or Religion _____ 3 _____
 Foreign Languages⁵ _____ 3 _____
 Music or Theatre _____ 3 _____
 Interdisciplinary _____ 3 _____

MAJOR/GE CAPSTONE COURSE⁶

Chem 4908 Seminar in Chemistry _____ 3 _____

SOCIAL SCIENCES 9 S.H.

*HIST 1000 History of Civil Society
 in America _____ 3 _____
 PSY 1000 General Psychology _____ 3 _____
 SOC 1000 Intro to Sociology OR _____
 ANTH 1800 Cult. Anthropology _____ 3 _____

PROFESSIONAL EDUCATION 27 S.H.

Grades of (B-) or better in professional education courses (and "Satisfactory" grades in IEL 3801 and IEL 4801) required for students accepted to Kean University as of January 1996.

SCIENCE & MATHEMATICS 11 S.H.

*MATH 1054 Precalculus^{3&4} _____ 3 _____
 Phys 2095 Physics I³ _____ 4 _____
 Phys 2096 Physics II _____ 4 _____

Sophomore Level

IEL 2801 Intro Fld Exp/Subj Area K-12³ _____ 3 _____

Junior Level

Educ 3000 Curriculum Eval.& Learner _____ 3 _____
 Educ 3401 LanguageArts/Reading K-12 _____ 3 _____
 IEL 3230 Science Education K-12_{WE} _____ 3 _____
 IEL 3801 Field Exp Subj Area K-12 _____ 2 _____

HEALTH/PHYSICAL EDUCATION 3 S.H.

ID 1225 Issues Contemp. Health _____ 3 _____

Senior Level

IEL 4801 Prof Intern/Subj Area K-12 _____ 10 _____

Professional/GE Capstone

Educ 4000 Teacher & Classroom _____ 3 _____

¹Required of all Freshmen and Transfers with fewer than 10 credits.

²See prerequisites and equivalencies on page 3.

³Eng 1030 and IEL 2801 require a grade of B- or better; Comm 1402, Math, & Laboratory requirements require a grade of C or better. "Additional Requirements" require a grade of C or better.

⁴Students 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, Math 1054 or Math 2411 will count as the General Education requirement and the student may take another 3 or 6 credits as free electives to total 133 S.H.

⁵Credit granted only upon completion of both semesters of elementary or intermediate foreign language.

⁶A minimum grade of C in no more than two major courses. A grade of B- or higher in remaining major courses.

^{*}Required Distribution Course.

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Comments:

NEW JERSEY REQUIRES A PASSING SCORE ON THE CHEMISTRY CONTENT KNOWLEDGE, PHYSICS CONTENT KNOWLEDGE, AND THE GENERAL SCIENCE:CONTENT KNOWLEDGE PART 1 AREAS OF THE PRAXIS SERIES EXAM BEFORE CERTIFICATION IN CHEMISTRY. THE TEST SHOULD BE TAKEN IN THE SENIOR YEAR AND NOT MORE THAN (9) MONTHS PRIOR TO GRADUATION. REFER TO THE "NJ PRAXIS SERIES: PROFESSIONAL ASSESSMENTS FOR BEGINNING TEACHERS" REGISTRATION BULLETIN AND YOUR MAJOR DEPARTMENT FOR MORE INFORMATION.

Criteria for acceptance into Teacher Education Programs:

- A. Minimum GPA of 2.75 (combined from all institutions of higher education attended).
- B. Completion of the following courses/minimum grades:
 - ENG 1030 College Composition (minimum grade of B-)
 - COMM 1402 Speech Comm as Critical Citizenship (minimum grade of C)
 - IEL 2801 Intro to Field Experience (minimum grade B-)
 - Laboratory Science course (minimum grade of C)
 - Math requirement course (minimum grade of C)
- C. Completion of the Speech/Language Screening test available from the Child Study Institute
- D. All applicants must file a formal application with the office of the major department and have an admission interview with the program coordinator. Contact Professor Jerry Weiner, Coordinator of K-12 Secondary Education Program, Willis 109, (908) 737-4270.

Evaluator's Signature _____ Date _____

Advisor's Signature _____ Date _____

Advisor's Signature _____ Date _____

Advisor's Signature _____ Date _____

Advisor's Signature _____ Date _____

Advisor's Signature _____ Date _____

Advisor's Signature _____ Date _____

Advisor's Signature _____ Date _____

Your major department is located in Science Building (C), Room 221, Phone (908)737-3680.

YOU MUST BRING THIS EVALUATION AND YOUR KEAN UNIVERSITY

TRANSCRIPT TO ALL ADVISING/REGISTRATION SESSIONS.

ADDITIONAL MAJOR INFORMATION AND REQUIREMENTS

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

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
ENG 1031/32; 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

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.