KEAN UNIVERSITY

NJ CENTER FOR SCIENCE, TECHNOLOGY & MATHEMATICS (NJCSTM) (30110) B.S. in Science and Technology (Biomedicine Option): 128-130 S.H. (Effective Fall/2010)

START TERM:

STUDENT NAME:	Credits		Credits
STUDENT ID#			
		ACADEMIC MAJOR REQUIREMENTS ⁵ : 66-68 S.H.	
GENERAL EDUCATION: 34 Semester Hours (S.H.)		STME 2603 Probabilistic Methods in Science	4
Foundation Requirements: 14 S.H.		STME 2601 Living Systems	4
GE 1000 Transition to Kean ¹	1	STME 2610 Current Issues in Science & Technology I	1
ENG 1030 College Composition ²	3	STME 3610 Current Issues in Science & Technology II	1
STME 1403 Mathematics. & Computational Methods of Science I ³	4	CHEM 2581 Organic Chemistry I (section for NJCSTM)	3
COMM 1402 Speech Communication As Critical Citizenship ²	3	CHEM 2583 Organic Chemistry Lab I (section for NJCSTM)	2
GE 2024 Research & Technology ²	3	CHEM 2582 Organic Chemistry II (section for NJCSTM)	3
DISCIPLINARY / INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS: 20 S.H.		CHEM 2584 Organic Chemistry Lab II (section for NJCSTM)	2
Humanities: 6 S.H.		BIO 3433 Anatomy &Physiology I (Honors)	4
*ENG 2403 World Literature	3	BIO 3434 Anatomy & Physiology II (Honors)	4
Foreign Language ⁴	3	BIO 3405 Basic Gross Anatomy	4
Social Sciences: 6 S.H.		BIO 3704 Principles of Genetics	3
*HIST 1000 History of Civil Society in America	3	BIO 3705 Principals of Genetics Lab	2
PSY 1000 General Psychology	3	BIO 3305 Principles of Microbiology	4
Science and Mathematicsematics: 8 S.H.		BIO 4105 Essentials of Biochemistry	4
STME 1603 Mathematics & Computational Methods of Science II	4	BIO 4315 Immunology	4
STME 1401 Chemical Systems I	4	BIO 4310 Virology	4
		STME 4410 Systems Neuroscience	3
ADDITIONAL REQUIREMENTS ² : 22 S. H.		Major/GE Capstone Course: 3 S.H.	
Foreign Language Course selected with advisement	3	STME 4610 Science & Technology Seminar (writing emphasis course)	3
Foreign Language Course selected with advisement	3	Major Elective Courses: 7-9 S.H. (Non Drexel link students take 2 major electives with advisement; Preceptorships for Drexel linkage only)	
STME 1601 Chemical Systems II	4	STME 3520 Preceptorship I	3-4
STME 2401 Physical Systems	4	STME 4520 Preceptorship II	3-4
PHYS 2096 Physics II	4	STME 4611 NJCSTM Service Learning (taken w/STME 4610)	1
STME 2403 Math& Computational Methods of Science III	4	FREE ELECTIVE: 6 S.H.	
**For students in Drexel Link, cumulative GPA in science courses must be 3.5 or above. Overall cumulative GPA must be 3.5 or above. No course may be withdrawn or repeated and all coursework must be at Kean.	-	Select with advisement one course in either history of science/medicine/technology; human rights/genocide; or sustainability	3
**For students not in Drexel link, GPA requirement is a 3.25 cumulative.		First semester of foreign language humanities course	3
¹ Required of all Freshmen and Transfers with fewer than 10 credits.		TOTAL CREDITS:	
*(G.E) General Education required course.			
² Foundations & Additional Requirements require grade of C or better, except ENG 1030 requires B or better. ³ Prerequisite of qualifying placement test score or the equivalent of MATH 1054.		 Credit granted only upon completion of two semesters of sequential elementary or intermediate foreign language; for example: SPAN 1102 & 2101 or SPAN 2101 & 2102. Determined by WebCAPE Foreign Language Placement exam test score. 5A minimum grade of C in no more than two major courses, including capstone. A grade of B- or higher in remaining major courses. 	

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 1000

Prereq: Placement testing

Equiv: MATH 1001/02; 1003/04; 1051

COMM 1402

Prereg: CS 0411 or 0412 if required by placement

ENG 1031/32; 1033/34 May be taken concurrently

with ENG 1030 Equiv: COMM 1400

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

NJCSTM offers majors only sections of GE 1000 & GE 2024

Course Paired with Reading

Must be taken concurrently with CS 0412 if required by placement testing.

GE Distribution Courses

under the General 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

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.

Foreign Language Credit

The three credits for a foreign language that may the GE Disciplinary/Interdisciplinary Distribution Requirement are awarded only upon successful completion of two semesters of study at the introductory or intermediate level.

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.

Course Prerequisites

ENG 2403: ENG 1030 (or equivalent) & completion of any freshmen placement requirements in reading. **CHEM 2581:** CHEM 1084 or instructor permission.

CHEM 2583: CHEM 2181

CHEM 2582: CHEM 2181, CHEM 2183 with

minimum grade of C.

CHEM 2584: CHEM 2183 with minimum grade of C.

BIO 3305: BIO 2400 or instructor permission

BIO 3704: BIO 2400, CHEM 1084

BIO 3705: BIO 3704

BIO 3433: BIO 2400, CHEM 1084

BIO 3434: BIO 3433

BIO 3405: Instructor permission or BIO 2402 or 2409 **BIO 4315:** BIO 3305, 2400, Organic Chemistry BIO 4310: BIO 2400, BIO 3305, Organic Chemistry BIO 4105: One semester of organic chemistry,

BIO 2400 or instructor permission.

PHYS 2096: PHYS 2095 (Physics I), MATH 2412

(Calculus II).

STME 1403: Qualifying testing placement or equivalent MATH 1054 (Precalculus).

STME 1601: STME 1401 **STME 1603:** STME 1403 **STME 2401:** STME 1603

STME 2403: STME 1603 STME 2601: STME 1601 **STME 2603**: STME 1603

STME 2610: GE 2024

STME 3610: STME 2610, STME 2603, STME 2601 **STME 4610:** Senior standing in NJCSTM programs.

STME 4520: STME 3520 **STME 4410:** BIO 3405

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