

**KEAN UNIVERSITY**  
**COLLEGE OF NATURAL, APPLIED AND HEALTH SCIENCES**  
**(70303) B. S. IN BIOLOGY (Biotechnology Option) 124 S. H.**  
**(EFFECTIVE 09/11)**

NAME \_\_\_\_\_  
 STUDENT I. D. # \_\_\_\_\_  
 START TERM \_\_\_\_\_

TRANSFER INSTITUTIONS	CREDITS
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In Progress ( ) _____	_____
Kean University ( ) _____	_____

**GENERAL EDUCATION REQUIREMENTS: 32 S. H.**

**FOUNDATION REQUIREMENTS: 13 S. H.**  
 GE 1000 Transition to Kean \_\_\_\_\_ 1 \_\_\_\_\_  
 ENG 1030 Composition \_\_\_\_\_ 3 \_\_\_\_\_  
 MATH 1000 College Algebra \_\_\_\_\_ 3 \_\_\_\_\_  
 COMM 1402 Speech Communication as  
     Critical Citizenship \_\_\_\_\_ 3 \_\_\_\_\_  
 GE 2024 Research & Technology \_\_\_\_\_ 3 \_\_\_\_\_

**DISCIPLINARY & INTERDISCIPLINARY REQUIREMENTS:**  
**HUMANITIES 6 S. H.**  
 ENG 2403 World Literature \_\_\_\_\_ 3 \_\_\_\_\_  
 (Select one course from below)  
     Fine Arts or Art History \_\_\_\_\_ 3 \_\_\_\_\_  
     Philosophy or Religion \_\_\_\_\_ 3 \_\_\_\_\_  
     Foreign Language \_\_\_\_\_ 3 \_\_\_\_\_  
     Music or Theatre \_\_\_\_\_ 3 \_\_\_\_\_  
     Interdisciplinary \_\_\_\_\_ 3 \_\_\_\_\_

**SOCIAL SCIENCES 6 S. H.**  
 HIST 1000 History of Civil Society  
     in America  
     or  
 HIST 1062 Worlds of History \_\_\_\_\_ 3 \_\_\_\_\_  
 (Select one course from below)  
     Economics or Geography \_\_\_\_\_ 3 \_\_\_\_\_  
     Political Science \_\_\_\_\_ 3 \_\_\_\_\_  
     Psychology \_\_\_\_\_ 3 \_\_\_\_\_  
     Sociology or Anthropology \_\_\_\_\_ 3 \_\_\_\_\_  
     Interdisciplinary \_\_\_\_\_ 3 \_\_\_\_\_

**SCIENCE & MATHEMATICS 7 S. H.**  
 MATH 1054 Precalculus \_\_\_\_\_ 3 \_\_\_\_\_  
 CHEM 1083 Chemistry I \_\_\_\_\_ 4 \_\_\_\_\_

**ADDITIONAL REQUIREMENTS 25 S. H.**  
 CHEM 1084 Chemistry II \_\_\_\_\_ 4 \_\_\_\_\_  
 CHEM 2581 Organic Chem. Lec. I \_\_\_\_\_ 3 \_\_\_\_\_  
 CHEM 2582 Organic Chem Lec. II \_\_\_\_\_ 3 \_\_\_\_\_  
 CHEM 2583 Organic Chem Lab. I \_\_\_\_\_ 2 \_\_\_\_\_  
 CHEM 2584 Organic Chem Lab. II \_\_\_\_\_ 2 \_\_\_\_\_  
 MATH 2411 Calculus I \_\_\_\_\_ 3 \_\_\_\_\_  
 PHYS 2091 General Physics I \_\_\_\_\_ 4 \_\_\_\_\_  
 PHYS 2092 General Physics II \_\_\_\_\_ 4 \_\_\_\_\_

**MAJOR REQUIREMENTS 40 S. H.**

**REQUIRED COURSES IN BIOLOGY 33 S. H.**  
 SELS 1200 Introduction to Biology \_\_\_\_\_ 4 \_\_\_\_\_  
 SELS 2201 General Biology: Diversity and  
 Interactions \_\_\_\_\_ 4 \_\_\_\_\_  
 SELS 2202 General Biology: Molecular and Cellular Processes  
     \_\_\_\_\_ 4 \_\_\_\_\_  
 BIO 3305 Principles of Microbiology \_\_\_\_\_ 4 \_\_\_\_\_  
 BIO 3704 Principles of Genetics \_\_\_\_\_ 3 \_\_\_\_\_  
 BIO 3705 Principles of Genetics Lab \_\_\_\_\_ 2 \_\_\_\_\_  
 BIO 3820 Basic Tissue Culture \_\_\_\_\_ 4 \_\_\_\_\_  
 BIO 4105 Essentials of Biochemistry \_\_\_\_\_ 4 \_\_\_\_\_  
 BIO 4700 Molecular Genetics \_\_\_\_\_ 4 \_\_\_\_\_

**PROGRAM-RELATED ELECTIVES 7 S. H.**  
 Selected with departmental advisement from  
 a list at the 3000-4000 level.  
 \_\_\_\_\_ 4 \_\_\_\_\_  
 \_\_\_\_\_ 3 \_\_\_\_\_

**MAJOR/GE CAPSTONE COURSE 3 S. H.**  
 BIO 4970 Seminar Int. Bio. \_\_\_\_\_ 3 \_\_\_\_\_

**FREE ELECTIVES 24 S. H.**  
*(50% at the 3000-4000 level)*  
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