



KEAN UNIVERSITY
FOUR YEAR ACADEMIC PLAN

BACHELOR OF SCIENCE IN BIOLOGY, CELL & MOLECULAR OPTION (70302)

Program Notes:

- All options in the B.S biology major require a minimal cumulative GPA of 3.0 to remain in the major as well as for graduation.
- Actual course sequence will vary by student/program and is based upon course availability
- Some advanced courses in the major are offered only on a rotating basis and may vary by term offered.
- Major elective & free electives and their availability vary according to registration demand and faculty availability. Selections are approved thru the advisement process.
- Individual time to student's completion of graduation requirements will vary according to successful completion of prerequisites and other courses. This four year plan is for guidance purposes only.
- The semesters shown are Fall/Spring only. Some students may opt for intersession coursework (summer, etc.).

Name: _____

Student ID: _____

FRESHMAN YEAR 1

Fall Semester Yr-1

ENG 1030 College Composition	3
MATH 1054 Precalculus	3
GE 1000 Transition to Kean	1
BIO 1300 General Biology I ¹	4
CHEM 1083 General Chemistry I	4
HIST 1062 Worlds of History	3
Total Credits	18

Spring Semester Yr-1

COMM 1402 Speech Communication	3
MATH 1016 Statistics (BIO Sections)	3
MATH 2415 Calculus I	4
BIO 1400 General Biology II	4
CHEM 1084 General Chemistry II	4
Total Credits	18

SOPHOMORE YEAR 2

Fall Semester Yr-2

PHYS 2091 General Physics I	4
GE 2024 Research & Technology	3
CHEM 2581 Organic Chemistry I Lecture	3
CHEM 2583 Organic Chemistry I Lab	2
BIO 3305 Microbiology	4
Total Credits	16

Spring Semester Yr-2

PHYS 2092 General Physics II	4
ENG 2403 World Literature	3
CHEM 2582 Organic Chemistry II Lecture	3
CHEM 2584 Organic Chemistry II Lab	2
BIO 3709 Genetics	4
Total Credits	16

JUNIOR YEAR 3

Fall Semester Yr-3

BIO 4015 Essentials of Biochemistry	4
BIO 4315 Immunology	4
BIO 3XXX or 4XXX Major Elective	4
Free elective	3

Spring Semester Yr-3

BIO 3XXX or 4XXX Major Elective	3-4
GE Approved Humanities	3
Free elective	3
Free elective	3

Total Credits 15

Total Credits 12-13

SENIOR YEAR 4

Fall Semester Yr-4

GE Approved Social Science	3
BIO 3XXX or 4XXX Major Elective	3-4
BIO 3XXX or 4XXX Major Elective	3-4
Free elective	3

Spring Semester Yr-4

BIO 4970 Seminar in Integrative Biology	3
BIO 3XXX or 4XXX Major Elective	3-4
BIO 3XXX or 4XXX Major Elective	3-4
BIO 3XXX or 4XXX Major Elective	3-4

Total Credits 12-14

Total Credits 12-15

TOTAL CREDITS REQUIRED FOR GRADUATION 124 S.H.

Footnote:

¹If a student does not have the required co-requisite of MATH 1054, they are encouraged to substitute a Free Elective instead of BIO 1300 during their first semester.