

#2160
BIOLOGY: TRADITIONAL
TRACK
Science & Math Degree

NOTES:

This is an unofficial document and should be used for academic planning purposes only. All students are required to see their Academic Advisor each semester to discuss and approve their selection of courses before they register. Due to continual program revisions mandated by accrediting agencies and/or changes in state mandated requirements, students should consult their academic advisor when selecting courses. If you need the name of your academic advisor, contact the Biology/Chemistry Department, 973 328-5360.

To determine the transferability of your courses to participating NJ Colleges & Universities, visit the NJTransfer site at www.njtransfer.org.

Science courses completed by students prior to entering the program must be less than seven years old. If the science courses exceed the seven-year limit, students must prove their competency by testing, or they must retake the courses.

Note: All developmental Math courses must be completed prior to enrolling in the core science courses. Please see the course catalog for English prerequisites.

*See back for more information.

Suggested Sequence by Semester

SEMESTER I			SEMESTER II		
English Composition I	ENG 111	3	English Composition II	ENG 112	3
General Biology I	BIO 121	4	Social Science Elective		3
Precalculus	MAT 123	4	General Biology II	BIO 122	4
Humanities Elective		<u>3</u>	Analytic Geometry & Calc 1 OR	MAT 131	
			Probability & Statistics	MAT 130	<u>4</u>
	TOTAL	14		TOTAL	14
SEMESTER III			SEMESTER IV		
General Education Elective		3	General Education Elective		3
General Chemistry I Lecture	CHM 125	3	General Chemistry II Lecture	CHM 127	3
General Chemistry I Lab	CHM 126	1	General Chemistry II Lab	CHM 128	1
Biology Elective		4	Biology Elective		4
Humanities/Social Science Elective		3	Free Elective		<u>4</u>
Math/Science/Tech Elective		<u>3</u>			
	TOTAL	17		TOTAL	15

MATHEMATICS: Students demonstrating proficiency in MAT 123 Pre-Calculus are encouraged to take MAT 131 Analytic Geometry and Calculus I followed by MAT 130, Probability and Statistics) or MAT 132 Analytic Geometry and Calculus II. You may use an additional Math class as an elective in the Math/Science/Technology category.

If you do not pass the Technology Literacy Competency exam, you must take one of the courses in Technological Competency or Information Literacy listing from the General Education course list. This course can be used to fulfill a General Education Math/Science/Technology elective.

HUMANITIES: Please select appropriate courses from the approved list of General Education courses for Humanities.

SOCIAL SCIENCES: Please select appropriate courses from the approved list of General Education courses for Social Science.

BIOLOGY ELECTIVES: Select from the following courses:

BIO 201 Genetics (Spring)

BIO 202 Ecology (Fall)

BIO 215 Microbiology

BIO 223 Cell and Molecular Biology (Fall)

BIO 228 Internship Work Exp - Bio (3 CR)* - must be taken with a 1 CR free elective to meet the 4 CR requirement

CHM 212 Biochemistry (Spring)

CHM 218 Analytical Chemistry - Instrumental Analysis (Spring) – Discuss this choice with your advisor.

*Requires permission of department Chairperson.

FREE ELECTIVES: Any course or combination of courses totaling the required credits. Free Electives do not have to be part of the General Education Course list. BIO 233 Independent Study in Biology does not fulfill any of the science requirements in Biology but may be taken as a free elective.

HONORS COURSES: BIO 121, BIO 122 and BIO 202 offer selected sections with an honors option. Consult with your Academic Advisor for more information.

- Students will not receive credit towards graduation for more than one of the following courses: MAT 124 and MAT 130
- BIO 101 and BIO 102, Anatomy & Physiology I & II cannot be substituted for the Biology Elective.
- Students can take BIO 228 Internship Work Exp - Bio (3 CR), BIO 229 Internship Work Exp - BIO (2 CR), or BIO 230 Internship Work Exp - BIO (1 CR) as a free elective. These courses require permission from the department Chairperson.