

**COUNTY COLLEGE OF MORRIS
CURRICULUM CHECK SHEET
Requirements for Graduation
A. S. DEGREE**

**#2160
BIOLOGY: PRE-
PROFESSIONAL SCIENTIFIC
TRACK
Science & Math Degree**

Name: _____
ID _____ Total Transfer Credits _____

FALL 2022

COURSE	CODE	CR	GR	TR
General Education Foundation (32 CR)				
COMMUNICATION (6 CR)				
English Composition I	ENG 111	3		
English Composition II	ENG 112	3		
MATH/SCIENCE/TECHNOLOGY (11 CR)				
Precalculus	MAT 123	4		
Biology Elective*		4		
Math/Science/Technology Elective*		3		
SOCIAL SCIENCE (3 CR)				
Choose from General Education course list (Social Science)		3		
HUMANITIES (3 CR)				
Choose from General Education course list (Humanities)		3		
SOCIAL SCIENCE OR HUMANITIES (3 CR)				
General Psychology	PSY 113	3		
GENERAL EDUCATION ELECTIVES (6 CR)*				
Choose from General Education course list		6		
BIOLOGY PREPROFESSIONAL CORE (28 CR)				
General Biology I	BIO 121	4		
General Biology II	BIO 122	4		
General Chemistry I Lecture	CHM 125	3		
General Chemistry I Lab	CHM 126	1		
General Chemistry II Lecture	CHM 127	3		
General Chemistry II Lab	CHM 128	1		
Organic Chemistry I Lecture (Fall)	CHM 231	3		
Organic Chemistry I Lab (Fall)	CHM 232	1		
Organic Chemistry II Lecture (Spring)	CHM 233	3		
Organic Chemistry II Lab (Spring)	CHM 234	1		
Analytic Geometry & Calculus I	MAT 131	4		
Total		60		

NOTES:

This is an unofficial document and should be used for academic planning purposes only. All students are required to see their Academic Advisors 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.

The Preprofessional Scientific Track is intended for students with strong math and science skills, planning to transfer into a B.S. in Chemistry, Pharmacy, or professional Dental, Medical or Veterinary programs.

To determine the transferability of your courses to participating NJ Colleges & Universities, visit the NJ Transfer 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 and English courses (including ESL) must be completed before enrolling in the core science courses.

*See back for more information.

BIOLOGY: PREPROFESSIONAL SCIENTIFIC TRACK
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Suggested Sequence by Semester

*This suggested sequence does not include any required developmental courses.
Degree completion time may vary depending upon the number of credits taken each semester.*

SEMESTER I			SEMESTER II		
		CREDITS			CREDITS
English Composition I	ENG 111	3	English Composition II	ENG 112	3
General Biology I	BIO 121	4	General Biology II	BIO 122	4
Precalculus	MAT 123	4	Analytic Geometry & Calculus I	MAT 131	4
General Chemistry I Lecture	CHM 125	3	General Chemistry II Lecture	CHM 127	3
General Chemistry I Lab	CHM 126	<u>1</u>	General Chemistry II Lab	CHM 128	<u>1</u>
	TOTAL	15		TOTAL	15
SEMESTER III			SEMESTER IV		
General Education Elective		3	General Education Elective		3
General Psychology	PSY 113	3	Organic Chemistry II Lecture	CHM 233	3
Organic Chemistry I Lecture	CHM 231	3	Organic Chemistry II Lab	CHM 234	1
Organic Chemistry I Lab	CHM 232	1	Humanities Elective		3
Biology Elective		4	Math/Science/Technology Elective		<u>3</u>
Social Science Elective		<u>3</u>			
	TOTAL	17		TOTAL	13

MATH/SCIENCE/TECHNOLOGY

MATHEMATICS: Students demonstrating proficiency in MAT 123 Pre-Calculus are encouraged to take MAT 131 Analytic Geometry and Calculus I followed by MAT 124 Statistics (or 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.

SCIENCE/TECHNOLOGY: Consult the General Education course list for approved courses in Science and Technology.

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.

GENERAL EDUCATION ELECTIVES: Please select any courses from the approved list of General Education courses. Students who plan to transfer to a B.A. (Bachelor of Arts) program should take COM 109, Speech Fundamentals, since this is required for that degree. [Click here for the most recent General Education course list.](#)

HUMANITIES: Please select a Humanities course from the General Education course list.

SOCIAL SCIENCE: Please select a Social Science course from the General Education course list.

BIOLOGY ELECTIVES: Select from the following courses:

BIO 202 Ecology

BIO 215 Microbiology BIO 201 Genetics (Spring)

BIO 223 Cell and Molecular Biology (Fall)

CHM 212 Biochemistry

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

NOTES: BIO 101 and BIO 102, Anatomy & Physiology I & II cannot be substituted for the Biology Elective. BIO 233 Independent Study in Biology does not fulfill any of the science requirements in Biology.