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

#2152 **CHEMISTRY OPTION Science & Math Degree**

FALL 2023

COURSE	CODE	CR	GR	TR	NOTES:
General Education Foundation (32 CR)					This is an unofficial docume
COMMUNICATION (6 CR)					be used for academic planni
English Composition I	ENG 111	3			only. All students are required
English Composition II	ENG 112	3			- Academic Advisors each seme
<i>.</i>					and approve their selection of they register.
MATH/SCIENCE/TECHNOLOGY (11 CR)					Due to continual program re-
Precalculus	MAT 123	4			mandated by accrediting age
Biology or Physics Elective*		4			changes in state mandated re
Math/Science/Technology Elective*		3			students should consult their
					advisor when selecting cours
SOCIAL SCIENCE (3 CR)					If you need the name of you advisor, contact the Biology
Choose from General Education course list (Social	Science)	3			Department 973-328-5360.
					Department 973 320 3300.
HUMANITIES (3 CR)					This program is intended
Choose from General Education course list (Human	nities)	3			with strong math and scie
					planning to transfer to a
SOCIAL SCIENCE OR HUMANITIES (3 CR					Biology or Chemistry, Ph
Choose from General Education course list (Social Scien	ce or Humanities)	3			Pre-Med, Pre-Dental or F
					Veterinary programs.
GENERAL EDUCATION ELECTIVES (6 CF	R)				
Choose from General Education course list		3			To determine the transferabil
		3			courses to participating NJ C
					Universities, visit the NJ Tra
CHEMISTRY CORE (28 CR)					www.njtransfer.org.
General Chemistry I Lecture	CHM 125	3			
General Chemistry I Lab	CHM 126	1			Science courses complete
General Chemistry II Lecture	CHM 127	3			students prior to enterin
General Chemistry II Lab	CHM 128	1			program must be less that
Organic Chemistry I Lecture (Fall)	CHM 231	3			years old. If the science of
Organic Chemistry I Lab (Fall)	CHM 232	1			exceed the seven-year lim
Organic Chemistry II Lecture (Spring)	CHM 233	3			can prove their competen
Organic Chemistry II Lab (Spring)	CHM 234	1			testing, or they must retak
Biology or Physics Elective*	7645	4			courses.
Analytic Geometry & Calculus I	MAT 131	4		1	Nickey All days 1 mm and 13.5
Restricted Elective*		4			Note: All developmental Mat must be completed prior to en
				1	core science courses. Please s
				1	- catalog for English prerequisi
	mom i v			1	
	TOTAL	60			*See back page for more info

fficial document and should ademic planning purposes nts are required to see their isors each semester to discuss eir selection of courses before

al program revisions accrediting agencies and/or te mandated requirements, d consult their academic selecting courses. e name of your academic ct the Biology/Chemistry

n is intended for students nath and science skills, transfer to a B.S. in hemistry, Pharmacy, e-Dental or Pre-

the transferability of your ticipating NJ Colleges & risit the NJ Transfer site at er.org.

ses completed by or to entering the st be less than seven the science courses even-year limit, students eir competency by ey must retake the

elopmental Math courses eted prior to enrolling in the ourses. Please see the course glish prerequisites.

^{*}See back page for more information.

CHEMISTRY OPTION Science & Math Degree #2152

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		CREDITS	SEMESTER II		CREDITS
English Composition I	ENG 111	3	English Composition II	ENG 112	3
Social Science Elective		3	Math/Science/Tech Elective		3
Precalculus OR	MAT 123	4	Analytic Geometry & Calc. I OR	MAT 131	4
Analytic Geometry & Calculus I	MAT 131		Analytic Geometry & Calc. II	MAT 132	
General Chemistry I Lecture	CHM 125	3	General Chemistry II Lecture	CHM 127	3
General Chemistry I Lab	CHM 126	5 <u>1</u>	General Chemistry II Lab	CHM 128	<u>1</u>
	TOTAL	14		TOTAL	14
SEMESTER III			SEMESTER IV		
General Education Elective		3	General Education Elective		3
Humanities Elective		3	Restricted Elective		4
Soc. Science or Humanities Elective		3	Biology or Physics Elective		4
Biology or Physics Elective		4	Organic Chemistry II Lecture	CHM 233	3
Organic Chemistry I Lecture	CHM 231	. 3	Organic Chemistry II Lab	CHM 234	<u>1</u>
Organic Chemistry I Lab	CHM 232	<u>1</u>	-		
	TOTAL	17		TOTAL	15

MATH/SCIENCE/TECHNOLOGY: See attached General Education course list. Work closely with your faculty advisor to select the appropriate courses.

MATHEMATICS: Students who place out of MAT 123, Precalculus should start at a higher-level Math class – MAT 131, Calculus I and continue to MAT 132, Calculus II. Discuss this sequence of Math courses with your advisor.

TECHNOLOGY LITERACY: 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 appropriate courses from the approved list of General Education courses. Work closely with your faculty advisor to select the appropriate courses. Students planning 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: See attached General Education course list. Work closely with your faculty advisor to select the appropriate courses.

SOCIAL SCIENCE: See attached General Education course list. Work closely with your faculty advisor to select the appropriate courses.

BIOLOGY/PHYSICS ELECTIVES:

BIO 121-122 General Biology I, II

BIO 202 Ecology (Fall)

BIO 215 Microbiology

BIO 223 Cell and Molecular Biology (Fall)

BIO 201 Genetics (Spring)

CHM 212 Biochemistry

PHY 125/126-127/128 General Physics I & II

PHY 130-133/134-232/233 Engineering Physics I, II, III

RESTRICTED ELECTIVE: Choose one from the following:

BIO 121, 122, 201, 202, 215, 223

CHM 212, 218

PHY 125/126, 127/128, 130, 133/134, 232/233

MAT 132, 230, 244

HONORS COURSES: You may be eligible to take honors courses. Discuss this option with your Academic Advisor.

Note: Students will not receive credit for more than one of the following courses: MAT 124 and MAT 130.