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

### #3450 CHEMICAL TECHNOLOGY

# **FALL 2025**

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COURSE	CODE	C	GR	TR	NOTES:		
		R	1		This is an unofficial document and should		
General Education Foundation (21 CR)			1		be used for academic planning purposes		
COMMUNICATION (6 CR)	ENG 111				<b>only.</b> All students are required to see their		
English Composition I	ENG 111	3	1		Academic Advisors each semester to discuss		
English Composition II	ENG 112	3			and approve their selection of courses before		
					they register.  Due to continual program revisions		
MATH/SCIENCE/TECHNOLOGY (3 CR)*					mandated by accrediting agencies and/or		
Statistics	MAT 124	3			changes in state mandated requirements,		
					students should consult their academic		
SOCIAL SCIENCE OR HUMANITIES (3 CR)					advisor when selecting courses.		
Choose from General Education course list (Humanities/Soc	ial Science)	3			If you need the name of your academic		
					advisor, please contact the		
GENERAL EDUCATION ELECTIVES (9 CR)*					Biology/Chemistry Department, 973-328-5360.		
Choose from General Education course list		9			3300.		
					Although the A.A.S. degree is a career-		
CHEMICAL TECHNOLOGY CORE (39 CR)					oriented program, selected four-year		
General Chemistry I Lecture	CHM 125	3			institutions may provide graduates of this		
General Chemistry I Lab	CHM 126	1			program opportunity for transfer. For more		
General Chemistry II Lecture	CHM 127	3			information, contact a transfer advisor		
General Chemistry II Lab	CHM 128	1			and/or your academic advisor.		
General Biology I	BIO 121	4			]		
General Biology II	BIO 122	4			To determine the transferability of your		
Analytical Chemistry – Instrumental Analysis	CHM 218	4			courses to participating NJ Colleges & Universities, visit the NJ Transfer site at		
Essentials of Organic Chemistry+ (Summer)	CHM 210	4			www.njtransfer.org.		
Concepts of Physics++	PHY 103	4			www.njtransier.org.		
Technical Electives*		11			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,		
	TOTAL	60			students must prove their competency		
	101112	00			by testing, or they must retake the		
					courses.		
					+CHM 231/232 Organic Chemistry may be		
					substituted.		
					Substituted.		
					++ PHY 125/126 General Physics I may		
			1	+	be substituted.		
			+				
			+	+	Note: All developmental Math courses		
			1	-	must be completed prior to enrolling in the		
			1	1	core science courses. Please see the course		
			1	-	catalog for English prerequisites.		
			1	-	*See back page for more information.		
					See back page for more information.		

### CHEMICAL TECHNOLOGY #3450

#### **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
General Chemistry I Lecture	CHM 125	3	General Chemistry II Lecture	CHM 127	3
General Chemistry I Lab	CHM 126	5 1	General Chemistry II Lab	CHM 128	1
Statistics	MAT 124	3	General Biology II	BIO 122	4
General Biology I	BIO 121	<u>4</u>	General Education Elective		3
			Social Science/Humanities Elective		<u>3</u>
	TOTAL	14		TOTAL	17
SEMESTER III			SEMESTER IV		
Essentials of Organic Chemistry	CHM 210	) 4	Analytical Chemistry – Instrumental	CHM 218	4
Concepts of Physics	PHY 103	4	Analysis		
General Education Elective		3	Technical Electives		7
Technical Elective		<u>4</u>	General Education Elective		<u>3</u>
	TOTAL	15		TOTAL	14

**TECHNOLOGY LITERACY:** If you do not pass the Technology Literacy Competency exam, you must take a course to satisfy the Technology Literacy requirement. You may use a general education elective to fill this requirement from the list of Technological Competency/Information Literacy.

**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) degree program should take COM 109, Speech Fundamentals since this is required for B.A. degrees. Click here for the most recent General Education course list.

SOCIAL SCIENCE OR HUMANITIES: See attached General Education course list for Humanities or Social Science choices.

#### **TECHNICAL ELECTIVES:**

BIO 118 Biomedical Ethics

BIO 202 Ecology (Fall)

BIO 215 Microbiology

BIO 223 Cell and Molecular Biology (Fall)

CHM 212 Biochemistry (Spring)

CHM 229 Internship Work Experience (3 CR)\*

CHM 230 Internship Work Experience (2 CR)\*

CHM 236 Internship Work Experience (1 CR)\*

BIO 201 Genetics (Spring)

CHM 233/234 Organic Chemistry II Lecture/Lab (Spring)

CHM 233/234 Organic Chemistry II Lecture/Lab (Spring)

CHM 233/234 Organic Chemistry II Lecture/Lab (Spring)

CHM 236 Internship Work Experience (2 CR)\*

BIO 201 Genetics (Spring)

CHM 233/234 Organic Chemistry II Lecture/Lab (Spring)

CHM 236 Internship Work Experience (3 CR)\*

BIO 201 Genetics (Spring)

CHM 233/234 Organic Chemistry II Lecture/Lab (Spring)

CMP 135 Computer Concepts with Applications – satisfies the

Technology Literacy requirement.

MAT 110 College Algebra

MAT 123 Precalculus

PHY 127/128 General Physics II Lecture/Lab

CHM 235 Independent Study in Chemistry

Students interested in pursuing a career in an environmental related position, such as environmental technician, consider taking Ecology (BIO 202) as a technical 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.

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

<sup>\*</sup>Requires permission of department Chairperson.