

**#2152 - TECHM
TEACHER EDUCATION
CHEMISTRY**

NOTES:

All Teacher Education students are required to see their Academic Track Advisor or Teacher Education 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.

For Teacher Education Advisement: contact the Psychology & Education Department, DH 300, 973-328-5631, psychandedu@ccm.edu.

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 can prove their competency by testing, or they must retake the courses.

Teacher Education Core Note:

To remain in the program and enroll in EDU 111 and EDU 211 students must have a cumulative GPA of 3.0 or higher and permission of the Department Chairperson, Assistant Chairperson, or advisor (via petition).

+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 page for more information.

COURSE	CODE	CR	GR	TR
General Education Foundation (32 CR)				
COMMUNICATION (9 CR)				
English Composition I	ENG 111	3		
English Composition II	ENG 112	3		
Speech Fundamentals	COM 109	3		
MATH/SCIENCE/TECHNOLOGY (8 CR)				
Pre-Calculus	MAT 123	4		
Biology or Physics Elective*		4		
SOCIAL SCIENCE (3 CR)				
General Psychology	PSY 113	3		
HUMANITIES (3 CR)				
Choose from the General Education course list (Humanities)		3		
SOCIAL SCIENCE OR HUMANITIES (3 CR)				
Choose from General Education course list (Social Science or Humanities)		3		
GENERAL EDUCATION ELECTIVES (6 CR)				
Literature/Language Sequence**		3		
		3		
CHEMISTRY EDUCATION CORE (19 CR)				
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	CHM 231	3		
Organic Chemistry I Lab	CHM 232	1		
Organic Chemistry II Lecture	CHM 233	3		
Organic Chemistry II Lab	CHM 234	1		
Free Elective*		3		
TEACHER EDUCATION CORE (9 CR)				
Educational Psychology	PSY 217	3		
Teaching in America	EDU 111	3		
Behavior Observation in Education	EDU 211	3		
TOTAL		60		

TEACHER EDUCATION CHEMISTRY
#2152 TECHM
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 Psychology	PSY 113	3		Teaching in America	EDU 111	3	
Precalculus	MAT 123	4		General Chemistry II Lecture	CHM 127	3	
General Chemistry I Lecture	CHM 125	3		General Chemistry II Lab	CHM 128	1	
General Chemistry I Lab	CHM 126	<u>1</u>		Humanities Elective		3	
				Free Elective		<u>3</u>	
	TOTAL	14			TOTAL	16	
SEMESTER III				SEMESTER IV			
Literature/Language		3		Literature/Language		3	
Speech Fundamentals	COM 109	3		Behavior Observation in Education	EDU 211	3	
Educational Psychology	PSY 217	3		SS or Hum. Elective			
Biology or Physics Elective		4		Organic Chemistry II Lecture		3	
Organic Chemistry I Lecture	CHM 231	3		Organic Chemistry II Lab	CHM 233	3	
Organic Chemistry I Lab	CHM 232	<u>1</u>			CHM 234	<u>1</u>	
	TOTAL	17			TOTAL	13	

MATH/SCIENCE/TECHNOLOGY:

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 a course to satisfy the Technology Literacy requirement. Use the general education elective course list to select this requirement from the list of Technological Competency/Information Literacy.

SOCIAL SCIENCE OR HUMANITIES: Please select Humanities or Social Science. [Click here for the most recent General Education course list.](#)

GENERAL EDUCATION: Select two sequential language courses or two literature courses (below). Work closely with your faculty advisor to select these courses.

LITERATURE: Select two survey courses from the following:

ENG 243 World Literary Traditions: Beginnings to 1650

244 World Literary Traditions: 1650 to Present

246 English Classics from Beowulf to Paradise Lost

ENG 247 Major British Writers of the 19th & 20th Centuries

ENG 249 American Literature from Colonial Era to Civil War

ENG 250 American Literature from Civil War to 20th Century

LANGUAGES: Select any two of the same foreign language courses in sequence.

American Sign Language: ASL

Arabic: ARA

French: FRE

Italian: ITL

Japanese: JPN

Spanish: SPN

BIOLOGY/PHYSICS ELECTIVES:

BIO 121-122 General Biology I, II

BIO 201 Genetics (Spring)

BIO 202 Ecology (Fall)

BIO 215 Microbiology

BIO 223 Cell and Molecular Biology (Fall)

CHM 212 Biochemistry (Spring)

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

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

FREE ELECTIVE: Any course or combination of courses totaling the required credits. Free Electives do not have to be part of the General Education Course list. If you need to take a technology elective, you can use the free elective to satisfy this requirement. Students are highly advised to take MAT 131 Analytical Geometry and Calculus I.

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:

- Students will not receive credit for more than one of the following courses: MAT 124 and MAT 130.
- To enroll and remain in the Teacher Education Program students must maintain a minimum GPA of 3.0. To enroll in EDU 111 and EDU 211 students must have a cumulative GPA of 3.0 or higher and permission of the Department Chairperson, Assistant Chairperson, or advisor (via petition).