

## CHEMISTRY MINOR

### REQUIREMENTS

Choose 1 of the following tracks:

#### Track 1

For students who are more interested in a broader chemistry background, this track emphasizes organic chemistry.

At least 19 credits in minor courses, plus 0-12 credits in prerequisite courses, including:

Requirement Description		Credits
CHEM 1400	General Chemistry 1	4
CHEM 1450	General Chemistry 2	4
CHEM 2580	Organic Chemistry 1	4
CHEM 2585	Organic Chemistry 2	4
Choose 1 of the following:		3-4
CHEM 2310	Quantitative Analysis	
CHEM 2400	Inorganic Chemistry	
CHEM 2600	Physical Chem for Life Science	

#### Track 2

For students who are interested in a more quantitative chemistry background, this track emphasizes physical chemistry and mathematics.

At least 19 credits in minor courses, plus 16 credits in prerequisite courses, including:

Requirement Description		Credits
CHEM 1400	General Chemistry 1	4
CHEM 1450	General Chemistry 2	4
CHEM 3602	Physical Chemistry Preparation	1
CHEM 3610	Chemical Thermodynamics	3
CHEM 3620	Quantum Mechanics and Kinetics	3
Choose 1 of the following:		4
CHEM 1580	Intro Organic Chemistry w/lab	
CHEM 2580	Organic Chemistry 1	

### RESTRICTIONS

Ineligible Majors: Chemistry (B.A., B.S.), Biochemistry (B.S.)

Ineligible Minor: Biochemistry

### PRE/CO-REQUISITES

For Track 1 students who choose to take CHEM 2600, the following prerequisites are required:

Requirement Description		Credits
CALCULUS. Choose 1 of the following options:		6-8
Option A:		
MATH 1234 & MATH 1248	Calculus I and Calculus II	
Option B:		
MATH 1212 & MATH 1242	Fundamentals of Calculus I and Transitional Calculus	
Option C:		
MATH 1212 & MATH 1224	Fundamentals of Calculus I and Fundamentals of Calculus II	
PHYSICS. Choose 1 of the following:		4
PHYS 1600	Fundamentals of Physics I	
PHYS 1400	Elementary Physics I	
PHYS 1500	Physics for Engineers I	

For Track 2 students, the following prerequisites are required:

Requirement Description		Credits
CALCULUS. Choose 1 of the following options:		12
Option A:		
MATH 1234 & MATH 1248 & MATH 2248	Calculus I and Calculus II and Calculus III	
Option B:		
MATH 1212 & MATH 1242 & MATH 2248	Fundamentals of Calculus I and Transitional Calculus and Calculus III	
PHYSICS. Choose 1 of the following:		4
PHYS 1650	Fundamentals of Physics II	
PHYS 1550	Physics for Engineers II	

### OTHER INFORMATION

In the College of Arts and Sciences (CAS), only one course may overlap between a major and a minor or between two minors.

Courses for the minor and/or its pre/co-requisites that are cross-listed in the catalog or schedule of courses under another course

prefix may be taken under that other prefix and still count for these requirements.

With the approval of the chair/director, courses that applied to the minor in previous years but have since been deactivated may be applied to this year's minor requirements if they are reactivated.

For a Bachelor of Arts degree, no more than 45 credits in courses with the same departmental prefix may be used toward completion of the 120 credits required for graduation. For a Bachelor of Science degree, the maximum is 50 credits.

At least half of the credits used to complete minor requirements must be taken at the University of Vermont.