

Chemistry : Bachelor of Science		
Suggested First Year Courses:	Done	Need
CHEM 111/117 GENERAL I		
MATH 118/119 or MATH 121 CALCULUS I		
CHEM 112/118 GENERAL II		
MATH 122 CALCULUS II		
PHYS 201 GENERAL PHYSICS I (Optional)		
Suggested Second Year Courses:		
CHEM 221 ORGANIC I		
CHEM 222 ORGANIC II		
CHEM 255 QUANTITATIVE CHEMICAL ANALYSIS (1/2 unit)		
PHYS 103 - 104 or PHYS 202 or CHEM 260		
Required before taking Physical Chemistry (CHEM 331):		
1 year of Calculus (MATH 118/119 or 121 and 122), as shown above, AND		
1 year of physics:		
Either PHYS 201 and 202 (sequence starts in spring, is calculus based, and is preferred for students with strong math skills)		
OR		
PHYS 103 and 104 (sequence starts in fall and is algebra based)		
Additional Required Courses:		
CHEM 260 DESCRIPTIVE INORGANIC CHEMISTRY		
CHEM 331 PHYSICAL CHEMISTRY I		
CHEM 332 PHYSICAL CHEMISTRY II		
CHEM 341 BIOCHEMISTRY I		
CHEM 350 INSTRUMENTAL ANALYSIS		
Chemistry Research (400-Level, 1 Unit)		
One Advanced Chemistry Elective (342, 420, 460 or 499)		
One Additional Unit of Chemistry, chosen from courses numbered 250 or higher		
Chemistry Elective Courses:		
CHEM 270 ENVIRONMENTAL CHEMISTRY		
CHEM 299 SPECIAL TOPICS		
CHEM 340 PHARMACEUTICAL CHEMISTRY		
CHEM 342 BIOCHEMISTRY II		
CHEM 405 INDEPENDENT STUDY AND RESEARCH (1/2 unit)		
CHEM 406 INDEPENDENT STUDY AND RESEARCH (1 unit)		

CHEM 407 INDEPENDENT STUDY AND RESEARCH (1/2 unit)		
CHEM 420 ADVANCED ORGANIC CHEMISTRY		
CHEM 460 ADVANCED INORGANIC CHEMISTRY		
CHEM 495* HONORS PROJECT (1/2)		
CHEM 496 HONORS PROJECT (1)		
CHEM 497 HONORS PROJECT (1/2)		
CHEM 499 SPECIAL TOPICS (1)		
*495 HONORS PROJECT is prerequisite for 497 HONORS PROJECT		
The Bachelor of Science degree program in Chemistry is approved by the American Chemical Society (ACS).		
All chemistry majors are strongly encouraged to do research, either during the academic year or during the summer. Stipends may be available to support summer research. CHEM 260, 270, 420, and 460 are offered on an alternate year schedule. Students should work with their academic advisors in scheduling these courses as well as their physics.		