# Bachelor of Science Program in Chemistry

**FALL** | **SPRING**
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**First Year** |  
CHEM 111 General Chemistry I (5)  
MATH 130 Calculus I (4)  
GE | CHEM 112 General Chemistry II (5)  
MATH 131 Calculus II (3)  
GE
**Second Year** |  
CHEM 331 Organic Chemistry I (5)  
PHYS 135 Physics for Scientists & Engineers I (4)  
MATH 230 Calculus III (3)  
GE | CHEM 220 Quantitative Analysis (4)  
CHEM 332 Organic Chemistry II (5)  
PHYS 136 Physics for Scientists & Engineers II (4)  
GE
**Third Year** |  
CHEM 351 Physical Chemistry I (3)  
MATH 210 Linear Algebra w/ Differential Equa (3)  
PHYS 137 Physics for Scientists & Engineers III (4)  
GE | CHEM 340 Survey of Biochemistry (3)  
CHEM 352 Physical Chemistry II (3)  
CHEM 355 Physical Chemistry Laboratory (2)  
GE
**Fourth Year** |  
CHEM 420 Instrumental Analysis (3)  
CHEM 410 Advanced Inorganic Chemistry (4)  
GE | CHEM 415 Inorganic Chemistry Laboratory (2)  
Major Elective (3-4)  
GE

Lower Division: 39 units; Upper Division: 33-34 units.

GE: General Elective

**Major Elective** choose one (1) course for a minimum of 3 units from the following:
- CHEM 425 - Environmental Chemistry *Units: 4*
- CHEM 430 - Advanced Organic Chemistry *Units: 3*
- CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*