Bachelor of Science in Chemistry  
**Suggested Course Sequence**

The sequence below is the recommended sequence for a chemistry major enter Fall 2015 and later. Make changes to the sequence only in consultation with an advisor.

### Fall  
**Freshman**
- CHEM 121 General Chem I  
- MATH 131 Calculus I  
- ENGLWRIT 112 College Writing  
- BIOL 151 Intro Biol I +  
- CHEM 196 Independent Research (optional)

**Sophomore**
- CHEM 265 Organic Chem I  
- CHEM 291A Sophomore Seminar  
- MATH 233 Multivariate Calculus  
- PHYS 152 General Physics II  and Lab  
- CHEM 296 Independent Research (optional)

**Junior**
- CHEM 330 Writing in Chemistry  
- CHEM 341 Inorganic Chem  
- CHEM 342 Inorganic Chem Lab  
- CHEM 396 Independent Research (optional)

**Senior**
- CHEM 388 Independent Research  
- CHEM 499Y Honors Research/Thesis  
- CHEM 499T Honors Research/Thesis

### Spring  
**Freshman**
- CHEM 122 General Chem II  
- MATH 132 Calculus II  
- PHYS 151 General Physics I  and Lab  
- GEN ED Diversity (DU/DG) ++  
- CHEM 196 Independent Research (optional)

**Sophomore**
- CHEM 266 Organic Chem II  
- CHEM 268 Organic Chem II Lab  
- CHEM 315 Quantitative Analysis  
- CHEM 296 Independent Research (optional)

**Junior**
- Upper-level Courses*  
- CHEM 342 Inorganic Chem Lab  
- CHEM 346 Advanced Inorganic  
- CHEM 396 Independent Research (optional)  
- or CHEM 388 Independent Research **

**Senior**
- Upper-level Courses*  
- CHEM 388 Independent Research **  
- or CHEM 499Y Honors Research/Thesis**  
- or CHEM 496 Independent Research (optional)

### Upper-level courses  
**Fall**
- CHEM 396/496 Independent Research B  
- CHEM 396/496 Independent Research B  
- CHEM 513 Instrumental Analysis A/B  
- CHEM 513 Instrumental Analysis A/B  
- CHEM 515 Thy Analytical Processes A  
- CHEM 515 Thy Analytical Processes A  
- CHEM 546 Advanced Inorganic A  
- CHEM 546 Advanced Inorganic A  
- CHEM 551 Advanced Organic A  
- CHEM 551 Advanced Organic A  
- CHEM 552 Organic Spectroscopy A  
- CHEM 552 Organic Spectroscopy A  
- CHEM 584 Advanced Physical I A  
- CHEM 584 Advanced Physical I A  
- PHYS 531 Electronics for Scientists I w/Lab B  
- PHYS 531 Electronics for Scientists I w/Lab B  
- 600 and 700 level Chem courses also accepted A  
- 600/700 level Chem courses also accepted A  
- BIOCHEM 423 General Biochemistry I* A  
- BIOCHEM 423 General Biochemistry I* A  

**Spring**
- CHEM 396/496 Independent Research B  
- CHEM 423 Biochemistry for Chemists A  
- CHEM 585 Advanced Physical II A  
- CHEM 581 Chemical Biology A  
- CHEM 560 Materials Chemistry A  
- CHEM 595 Computational & Mathematical Methods in Chemistry A  
- PHYS 553 Optics with Lab B  
- PHYS 551 Intro to Polymer Science A  
- CHEM 396 Independent Research (optional) A  
- CHEM 388 Independent Research (optional) A  
- CHEM 499Y Honors Research/Thesis** A  
- BIOCHEM 424 General Biochemistry II* A  

**Group**
- A/B  
- A/B  
- A/B  
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- A/B  

+ Required for students entering Fall 2015  
++ Required for students entering Fall 2018  
* Minimum of 12 credits of upper-level courses required to graduate. At least 2 credits must be taken from both groups A and B.  
** CHEM 388 and 499Y/T are not intended to be a student’s first lab experience.  

**NOTES:**  
To satisfy the American Chemical Society certification take CHEM 423 (or BIOCHM 423), plus two additional Group A upper level CHEM electives.  
Students interested in chemical physics are encouraged to take Physics 181, 182 and 287 instead of Physics 151 and 152.

Curriculum adopted Spring 2015  

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