

**Department of Chemistry
Undergraduate Program Requirements
2008-2009**

BA (General):

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| CHEM 121/123L | PHYC 151 |
| CHEM 122/124L | PHYC 151L |
| CHEM 253L | PHYC 152 |
| CHEM 301 | PHYC 152L |
| CHEM 302 | |
| CHEM 303L | MATH 180/162 |
| CHEM 304L | MATH 181/163 |
| CHEM 315 | |
| Plus 8 hrs. of Chemistry electives CHEM 351L, 421 (or BIOC 423), 425, 431, approved CHEM 471 topics, 495-496 (2 hrs. max) | Credit (CR/NC) grade option is not allowed for PHYC & MATH |

BA (Pre-Med/Pre-Pharm/Biology):

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| CHEM 121/123L | PHYC 151 |
| CHEM 122/124L | PHYC 151L |
| CHEM 253L | PHYC 152 |
| CHEM 301 | PHYC 152L |
| CHEM 302 | |
| CHEM 303L | |
| CHEM 304L | Math 180/162 |
| CHEM 315 | Math 181/163 |
| CHEM 421 or BIOC 423 | |
| Plus 5 hrs. of Chemistry CHEM 351L, 425, 431, approved CHEM 471 topics, 495-496 (2 hrs. max) | Credit (CR/NC) grade option is not allowed for Physics & Math |

BA Pre-Grad:

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| CHEM 121/123L | PHYC 151 |
| CHEM 122/124L | PHYC 151L |
| CHEM 253L | PHYC 152 |
| CHEM 301 | PHYC 152L |
| CHEM 302 | OR |
| CHEM 303L | PHYC 160 |
| CHEM 304L | PHYC 160L |
| CHEM 311 | PHYC 161 |
| CHEM 312 | PHYC 161L |
| Plus 6 hrs. of Chemistry from CHEM 421, 425, 431, approved CHEM 471 topics, 495-496 (2 hrs. max) Or 3 hrs. of CHEM 495-496 | |
| | MATH 162 |
| | MATH 163 |
| | MATH 264 |
| | Credit (CR/NC) grade option is not allowed for PHYC & MATH |

BS Degree:

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| CHEM 121/123L | PHYC 160 |
| CHEM 122/124L | PHYC 160L |
| CHEM 301 | PHYC 161 |
| CHEM 302 | PHYC 161L |
| CHEM 303L | |
| CHEM 304L | MATH 162 |
| CHEM 311 | MATH 163 |
| CHEM 312 | MATH 264 |
| CHEM 351L | 1 course from MATH 311-316 |
| CHEM 352 | |
| CHEM 411L | Credit (CR/NC) grade option is not allowed for PHYC & MATH |
| CHEM 431 | |
| CHEM 432L | |
| 6 hrs. CHEM electives: CHEM 325-498, 495-498 (3 hrs. max) Or 2 hrs. of CHEM 495-496 and 1 hr. of CHEM 325-326 | |

A Distributed Minor:

1 course from Math 311, 314, or 316 and English 219.

*Students wishing to have their BS degree certified by the American Chemical Society should include CHEM 421 and 3 hours of research in their 6 hours of electives.

Minor:

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| CHEM 121/123L |
| CHEM 122/124L |
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| AND |
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| Must complete the course requirements in (2) of the following areas: |
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| Analytical Chemistry: CHEM 253L and 311 or 315 |
| Biological/Biochemistry: 2 courses from CHEM 421, 425, BIOC 423 |
| Inorganic/Physical Chemistry: CHEM 315 (or 311) and 431 |
| Organic Chemistry: CHEM 301, 302, 303L, 304L |
| Physical Chemistry: CHEM 311, 312 |
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| OR |
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| CHEM 121L |
| CHEM 122L |
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| AND |
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| Pre-Med/Pre-Pharm/Biology: CHEM 253L or 315, plus 301, 302, 303L, 304L and BIOC 423 (or CHEM 421 or 425) |

Departmental Honors:

The student enters the program at the beginning of the junior year. At this time, the student's GPA must be at least 3.20 overall and 3.50 in Chemistry. This minimum must be maintained throughout the junior and senior years. Course requirements for graduation with honors are as follows: 131L, 132L (or 121, 123L, 122, 124L), 301, 302, 303L, 304L, 311, 312, 351L, 352, 411L, 421, 431, 432L and 6 hours of additional courses from 325-498, including at least 3 hours of 497-498. A senior honors thesis will be written based on the senior honors research and submitted to the faculty. An oral presentation will also be made in a departmental or divisional seminar. Honors students will also take the Graduate Record Examination Advanced Test in Chemistry in their senior year and must obtain a satisfactory score.