

Bachelor of Science in Chemistry
American Chemical Society Accredited Degree
Effective for Admissions in Fall, 2017

Chemistry (CHEM)

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|---|----------------------------------|----------------------------------|----------------------------------|--|
| General Chemistry lecture and lab | <input type="checkbox"/> 211 (3) | <input type="checkbox"/> 213 (1) | <input type="checkbox"/> 212 (3) | <input type="checkbox"/> 214 (1) (satisfies Natural Science requirement) |
| Organic Chemistry lecture and lab | <input type="checkbox"/> 313 (3) | <input type="checkbox"/> 315(2) | <input type="checkbox"/> 314 (3) | <input type="checkbox"/> 318 (2) |
| Quantitative Chemical Analysis | <input type="checkbox"/> 321 (4) | | | |
| Physical Chemistry lecture and lab | <input type="checkbox"/> 331 (3) | <input type="checkbox"/> 336 (2) | <input type="checkbox"/> 332 (3) | <input type="checkbox"/> 337 (2) |
| Instrumental Methods of Chemical Analysis | <input type="checkbox"/> 422 (3) | | | |
| Instrumental Methods of Chemical Analysis Lab | <input type="checkbox"/> 423 (2) | | | |
| Prop. and Bonding of Inorganic Compounds | <input type="checkbox"/> 441 (3) | | | |
| Inorganic Preparations and Techniques | <input type="checkbox"/> 445 (2) | | | |
| General Biochemistry I | <input type="checkbox"/> 463 (4) | | | |

CHEM Electives (any lec/lab/research course(s)) ____ (3)

One In-Depth course from the following:

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|---|----------------------------------|---|----------------------------------|
| Synthetic/Mechanistic Organic Chemistry | <input type="checkbox"/> 413 (3) | General Biochemistry II | <input type="checkbox"/> 464 (3) |
| Aquatic Environmental Chemistry | <input type="checkbox"/> 427 (3) | Chemistry of Enzyme-Catalyzed Reactions | <input type="checkbox"/> 467 (3) |
| Atmospheric Chemistry | <input type="checkbox"/> 438 (3) | Bioorganic Chemistry | <input type="checkbox"/> 468 (3) |
| Chemical Oceanography | <input type="checkbox"/> 458 (3) | | |

Mathematics (MATH)

Analytic Geometry and Calculus 113 **-or-** 123-124 (4) 114 (4) 213 (3) (satisfies Quant. Reasoning req.)

Physics (PHYS)

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|------------------------|----------------------------------|----------------------------------|
| University Physics | <input type="checkbox"/> 160 (3) | <input type="checkbox"/> 260 (3) |
| University Physics Lab | <input type="checkbox"/> 161 (1) | <input type="checkbox"/> 261 (1) |

Biology (BIOL)

Cell Structure and Function 213 (4) (prerequisite for CHEM 463)

Mason Core (approved courses are listed in the University Catalog)

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| Written Communication | <input type="checkbox"/> ENGH 101 (3) | <input type="checkbox"/> ENGH 302 (3) |
| Oral Communication | <input type="checkbox"/> COMM 100 or 101 (3) | |
| Western Civilization/World History | <input type="checkbox"/> HIST 100 or 125 (3) | |
| Information Technology | <input type="checkbox"/> ____ (3) | |
| Literature | <input type="checkbox"/> ____ (3) | |
| Fine Arts | <input type="checkbox"/> ____ (3) | |
| Social and Behavioral Sciences | <input type="checkbox"/> ____ (3) | |
| Global Understanding | <input type="checkbox"/> ____ (3) | |
| Synthesis | <input type="checkbox"/> ____ (3) | |

Electives from any area except PRLS/PHED (15)

TOTAL CREDITS REQUIRED: 120 Minimum (of which 45 must be upper-division \geq 300 level); overall GPA \geq 2.00; major requirements GPA \geq 2.30; maximum of two courses of CHEM with a "D" grade. All CHEM prerequisite courses require a grade of C or better. See the "Prerequisites for CHEM Courses" document for a complete list.

Rev. 2/21/2017