

B.S. DEGREE REQUIREMENTS FOR CHEMISTRY

At least 45 credits in chemistry are required for the B.S. degree. Each student's course of study should include the following:

1.) Required Chemistry Core Courses

- CHE 106: General Chemistry Lecture I (3)
 - CHE 116: General Chemistry Lecture II (3)
- OR**
- CHE 109: General Chemistry Lecture I (Honors & Majors) (3)
 - CHE 119: General Chemistry Lecture II (Honors & Majors) (3)

- CHE 107: General Chemistry Lab I (1)
 - CHE 117: General Chemistry Lab II (1)
- OR**
- CHE 129: General Chemistry Lab I (Honors & Majors) (1)
 - CHE 139: General Chemistry Lab II (Honors & Majors) (1)

- CHE 275: Organic Chemistry Lecture I (3)
- CHE 276: Organic Chemistry Laboratory I (2)
- CHE 325: Organic Chemistry Lecture II (3)
- CHE 326: Organic Chemistry Laboratory II (2)
- CHE 346: Physical Chemistry Lecture I (3)
- CHE 347: Physical – Analytical Chemistry Laboratory (2)
- CHE 356: Physical Chemistry Lecture II (3)
- CHE 357: Physical Chemistry Laboratory (2)
- CHE 411: Inorganic Chemistry (3)
- CHE 422: Inorganic Laboratory Techniques (1)
- CHE 450: Introduction to Chemical Research (1-4)

(at least 3 credits)

- CHE 335: Chemical and Biochemical Analysis with Laboratory (4)
- OR**
- CHE/FSC 444: Forensic Chemical Analysis (4)
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- CHE 474: Structural and Physical Biochemistry (3)
- OR**
- BIO 575: Biochemistry (3)

2.) At least 3 credits in a lecture course chosen from:

- CHE 427: Intermediate Organic Chemistry (3)
- CHE 436: Advanced Physical Chemistry (3)
- CHE 546: Molecular Spectroscopy and Structure (1-9)
- CHE 575: Organic Spectroscopy (3)

or selected graduate courses with the instructor's approval

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3.) Required Calculus (one year) and Physics Courses

- MAT 295: Calculus I (4)
- MAT 296: Calculus II (2-4)
- PHY 211: General Physics Lecture I (3)
- PHY 212: General Physics Lecture II (3)
- PHY 221: General Physics Laboratory I (1)
- PHY 222: General Physics Laboratory II (1)

If taken in an appropriate area of research, additional credit in CHE 450 beyond the 3 credits required in (1) above may be substituted for up to 4 laboratory credits with the department's approval.

Students who receive a score of 5 on the AP chemistry exam will receive credit for CHE 106/116 and CHE 107/117 (8 credits)*

*Pre-medical students should consult with Health Professions Advising before accepting AP chemistry credit.