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)
☐ 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)
☐ 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)
☐ CHE/FSC 444: Forensic Chemical Analysis (4)
☐ BCM 475: Biochemistry (3)

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

☐ CHE 427: Organic Chemistry of Biological Molecules (3)
☐ CHE 436: Advanced Physical Chemistry (3)
☐ CHE 474: Structural and Physical Biochemistry (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.

Last updated: October 12, 2015