

# B.A. REQUIREMENTS FOR CHEMISTRY (CHEMISTRY TRACK)

To declare a B.A. major in Chemistry, a student must satisfy either of the following two requirements:

- 1) Earn a grade of C+ or better in General Chemistry lecture/lab courses (CHE106/107/116/117 or honors equivalents, or AP credit for CHE106/107/116/117) **AND** earn a grade of C or better in CHE 275;  
**OR**
- 2) Earn a grade of A- or better in a General Chemistry lecture course (CHE106/116/109/119) taken at Syracuse University.

Requirements include 36 credits in chemistry core courses, 32 of which are taken in specific courses. Each student's course of study includes the following:

## 1. Required Chemistry Core Courses:

- ☐ CHE 106/107: General Chemistry Lecture/Lab **OR** CHE 109/129: General Chemistry Lecture/Lab (Majors/Honors) (4)
- ☐ CHE 116/117: General Chemistry Lecture/Lab II **OR** CHE 119/139: General Chemistry Lecture/Lab II (Majors/Honors) (4)
- ☐ CHE 275/276: Organic Chemistry Lecture/Lab (5)
- ☐ CHE 325/326: Organic Chemistry Lecture/Lab II (5)
- ☐ CHE 346/347: Physical Chemistry Lecture/Lab (5)
- ☐ CHE 356/357: Physical Chemistry Lecture/Lab II (5)
- ☐ CHE 335: Chemical and Biochemical Analysis with Lab **OR** CHE/FSC 444: Forensic Chemical Analysis (4)

## 2. At Least 4 Credits Chosen From:

- |   |  |
|---|--|
| <input type="checkbox"/> CHE 411: Inorganic Chemistry (3)                       | <input type="checkbox"/> CHE 474: Structural & Physical Biochemistry (3)     |
| <input type="checkbox"/> CHE 412: Metals in Medicine (3)                        | <input type="checkbox"/> CHE 546: Molecular Spectroscopy and Structure (1-9) |
| <input type="checkbox"/> CHE 414: Introduction to Medicinal Chemistry (3)       | <input type="checkbox"/> CHE 575 Organic Spectroscopy (3)                    |
| <input type="checkbox"/> CHE 422: Inorganic Laboratory Techniques (1)           | <input type="checkbox"/> BCM 475: Biochemistry I (3)                         |
| <input type="checkbox"/> CHE 427: Organic Chemistry of Biological Molecules (3) | <input type="checkbox"/> BCM 476: Biochemistry II (3)                        |
| <input type="checkbox"/> CHE 436: Advanced Physical Chemistry (3)               |  |

**or selected graduate courses with the instructor's approval**

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

- |  |   |
|--|---|
| <input type="checkbox"/> MAT 285: Life Sciences Calculus I (3) <b>OR</b> MAT 295: Calculus I (4)     | <input type="checkbox"/> PHY 212: General Physics Lecture II (3)    |
| <input type="checkbox"/> MAT 286: Life Sciences Calculus II (3) <b>OR</b> MAT 296: Calculus II (2-4) | <input type="checkbox"/> PHY 221: General Physics Laboratory I (1)  |
| <input type="checkbox"/> PHY 211: General Physics Lecture I (3)                                      | <input type="checkbox"/> PHY 222: General Physics Laboratory II (1) |

Students are encouraged to gain some research experience by enrolling in CHE 450, which may be substituted for a 3-credit course listed in (2) above by petitioning the department.

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.