

## Curriculum for the B.S. degree in Chemistry with a Concentration in Pre-Medicine

### Introductory Chemistry Courses

#### (9 credits)

- CHY 105 (1 cr) Majoring in Chemistry  
CHY 121 (3 cr)/CHY 123 (1 cr) General Chemistry I with lab  
CHY 122 (3 cr)/CHY 124 (1 cr) General Chemistry II with lab

### Foundation Chemistry Course Work

#### (22 credits)

- CHY 251 (3cr)/CHY 253 (2 cr) Organic Chemistry I with lab  
CHY 252 (3 cr)/CHY 254 (2 cr) Organic Chemistry II with lab  
CHY 261 (3 cr) Intro to Inorganic Chemistry  
CHY 298 (1 cr) Intro to Research and the Chemistry Profession  
CHY 342 (5 cr) Principles of Quantitative Analysis  
CHY 471 (3 cr) Physical Chemistry I

### In Depth Chemistry Courses

#### (18-19 credits)

- CHY 393 (3 cr) Undergrad Seminar in Chemistry  
CHY 491 (3 cr) Advanced Integrated Lab I  
CHY 492 (3 cr) Advanced Integrated Lab II  
CHY 498 (3 cr) Undergraduate Research

Plus **two** chemistry electives chosen from:

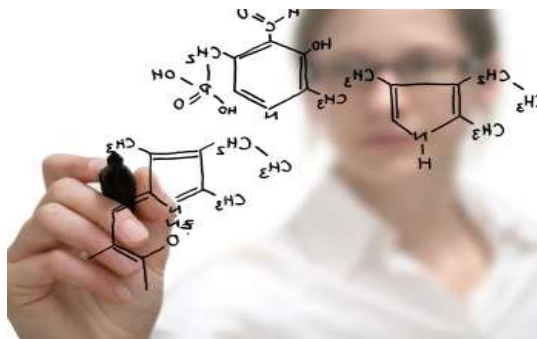
- CHY 423 (3 cr) Introductory Polymer Chemistry  
CHY 431 (3 cr) Structure and Mechanism in Biological Chemistry  
CHY 443 (3 cr) Instrumental Analysis  
CHY 461 (3 cr) Advanced Inorganic Chemistry  
CHY 462 (3 cr) Organometallic Chemistry  
CHY 472 (3 cr) Physical Chemistry II  
CHY 475 (3 cr) Physical Chemistry III  
CHY 477 (3 cr) Nanoscience  
CHY 483 (3 cr) Introductory Wood Chemistry  
CHY 499 (3 cr) Undergraduate Thesis

(500 level courses may be taken with permission)

### Cognate Courses

#### (16 credits)

- PHY 111 or PHY 121 (4 cr) Physics I  
PHY 112 or PHY 122 (4 cr) Physics II  
MAT 126 (4 cr) Calculus I  
MAT 127 (4 cr) Calculus II



### Concentration in Pre-Medicine

#### (30 credits)

- BIO 100 (4 cr) Basic Biology with lab  
BIO 200 (4 cr) Biology of Organisms with lab  
BIO 377 (3 cr)/BIO 378 (2 cr) Medical Physiology with lab  
BMB 322 (3 cr)/BMB 323 (2 cr) Introductory Biochemistry with lab  
PSY 100 (3 cr) General Psychology  
SOC 101 (3 cr) Introduction to Sociology  
STS 232 (3 cr) Principals of Statistical Inference  
CMJ 103 (3 cr) Public Speaking

**Electives: 25 credits** (used to fulfill the remainder of the general education/Honors and medical school requirements as necessary)

#### Recommended electives:

- BMB 300 (3 cr)/BMB 305 (2 cr) General Microbiology with lab  
BIO 208 (4 cr) Anatomy and Physiology with lab or  
BIO 335 (4 cr) Human Anatomy with lab  
INT 200 (4 cr) Orientation to Health Professions  
ENG 212 (3 cr) Persuasive and Analytical Writing  
PHI 235 (3 cr) Biomedical Ethics

**Total Credits = 120**

**Students who wish to earn the ACS certified B.S. degree must meet the corresponding degree requirements.**