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

## Introductory Chemistry Courses
*(9 credits)*
- CHY 105 (1 cr) Majoring in Chemistry
- CHY 121 (3 cr)/CHY 123 (1 cr) Introduction to Chemistry with lab
- CHY 122 (3 cr)/CHY 124 (1 cr) Molecular Basis for Chemical Change with lab

## Foundational Chemistry Course Work
*(25 credits)*
- CHY 242 (5 cr) Principles of Quantitative Analysis
- CHY 251 (3 cr)/CHY 253 (2 cr) Organic Chemistry I with lab
- CHY 252 (3 cr)/CHY 254 (2 cr) Organic Chemistry II with lab
- CHY 298 (1 cr) Introduction to Research
- CHY 431 (3 cr) Structure and Mechanism in Biological Chemistry
- CHY 461 (3 cr) Advanced Inorganic Chemistry
- CHY 471 (3 cr) Physical Chemistry I

## In Depth Chemistry Courses
*(12 credits)*
- CHY 393 (3 cr) Undergraduate Seminar in Chemistry
- CHY 491 (3 cr) Advanced Integrated Lab
- CHY 498 (3 cr) Undergraduate Research
- CHY 499 (3 cr) Undergraduate Thesis

## Cognate Courses
*(26 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
- MAT 228 (4 cr) Calculus III
- MAT 232 (3 cr) Principles of Statistical Inference
- CMJ 102 or 103 (3 cr) Speech Communication

## Concentration in Pre-Pharmacy:
*(30 credits)*
- BIO 100 (4 cr) Basic Biology with lab
- BIO 200 (4 cr) Biology of Organisms with lab
- 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
- BIO 377 (3 cr)/BIO 378 (2 cr) Medical Physiology with lab
- BMB 322 (3 cr)/BMB 323 (2 cr) Biochemistry with lab
- PSY 100 (3 cr) General Psychology

## Electives: 18 credits*(used to fulfill the remainder of the general education/Honors and specific pharmacy school requirements as necessary)*

## Recommended Electives:
- ENG XXX (3 cr) English Elective
- NUR 303 (3) Pathophysiology
- SOC 101 (3 cr) Introduction to Sociology
- ECO 120 or 121 (3 cr) Principles of Microeconomics
  - or Principles of Macroeconomics
- POS XXX or HTY XXX (3 cr) Political Science or
  - History Elective
- PSY 3XX or SOC 3XX (3 cr) Psychology or Sociology Elective
- Humanities or Social Science Elective (3 cr)

## Total Credits = 120

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1-31-2015