



CHEMISTRY

FOUR YEAR PLAN

DEPARTMENT OF CHEMISTRY
SOUTHERN NAZARENE UNIVERSITY



CHEMISTRY

ABOUT

Chemistry includes study of molecules and materials, matter and energy. Industrial, pharmaceutical, medicinal, food, agricultural, and forensic chemistry all use similar instrumentation and chemical theory drawn from the main types of study in chemistry: physical, organic, analytical, biochemistry, and inorganic chemistry. The major includes courses in these main types of chemistry.

At SNU you will personally use these instruments for lab experiments and research: UV-Vis spectrometers, ESI and GC Mass spectrometers, FT-IR spectrometers, Gas Chromatograph, multinuclear FT-NMR spectrometer, and programs for molecular modeling. We design a unique environment for you by reading the chemistry research literature together, connecting lab experiments to medical and other real-world applications, and solving problems individually and in collaborative teams.

DEGREE PLAN

***The courses listed are for this specific program and are in addition to the general education courses required for all students. See the General Education brochure or go to snu.edu/gen-ed for more information on those courses.*

Chemistry Courses Required courses:

General Chemistry I + lab
General Chemistry II + lab
Analytical Chemistry + lab
Organic Chemistry I + lab
Organic Chemistry II + lab
Physical Chemistry + lab
Chemistry Seminar x 2

Required chemistry electives to be chosen from:

Instrumental Analysis + lab
Advanced Inorganic
Chemistry Research
Chemical Kinetics
Biochemistry

Required Supporting Courses

General Physics I for Sci/Eng + lab
General Physics II for Sci/Eng + lab
Calculus I
Calculus II

Additional recommended courses for students interested in M.S./Ph.D.

Intro to Computer Science
Calculus III
Linear Algebra
Differential Equations
Quantum Mechanics
Statistical Mechanics

Additional courses for students interested in Pharm.D.

Cells and Systems + lab
Microbiology + lab
Anatomy + lab
Physiology + lab
Intro Psych/Soc



"Dr. Crow and Dr. York have always been extremely helpful and available when I need to ask questions about a course, or next steps toward my future career. I am constantly reminded of how genuinely they care and want to help me succeed in everything I do."

-Andy Issacs

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405.491.6370 | ADMISSIONS@SNU.EDU | 6729 NW 39TH EXPRESSWAY | BETHANY, OKLAHOMA 73008 | SNU.EDU