



BIOLOGY CHEMISTRY
**PRE MEDICAL
SCHOOL TRACK**

FOUR YEAR PLAN

DEPARTMENT OF BIOLOGY & CHEMISTRY
SOUTHERN NAZARENE UNIVERSITY



PRE-MED TRACK

ABOUT

The SNU departments of Biology and Chemistry offer a broad introduction to modern science. Our courses range from the cell and molecular level to organismal biology and human biology as well as industrial pharmaceutical, medicinal, food, agricultural and forensic chemistry. A student in the biology/chemistry major is typically one who is interested in studying and understanding life at the molecular and/or cellular level. Students in this major take an equal allotment of biology and chemistry classes with a rigorous background of mathematics and physics. At SNU the student 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. SNU has an excellent reputation for mentioning and preparing students for graduate and professional programs. Students are encouraged to get involved in research and practical experiences either on the SNU campus or at other collaborating locations. SNU has a world-class biological field station in Costa Rica, the Quetzal Education Research Center (QERC), at which students can spend a semester studying abroad. Through our uniquely designed environment of reading research literature together, connecting lab experiments to medical and other real-world applications, and solving problems individually and in collaborative teams, students are exceptionally prepared to pursue Medical School through the following specialized track of courses.

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.*

01

General Chemistry I + lab
General Chemistry II +lab
Cells & Systems + lab
Organismal Biology
Trigonometry
Calculus I*

02

Organismal Biology I + lab
Organismal Biology II + lab
General Physics I (for Sci/Eng*) + lab
General Physics II (for Sci/Eng*) + lab
Genetics
Calculus II *
Microbiology + lab

03

Analytical Chemistry + lab
Cellular and Molecular Biology
Instrumental Analysis + lab
Biochemistry
Chemistry Seminar

04

Chemistry or Biology Research + lab
Advanced Biology Elective
Origins
Biology Field Course
Molecular Biology Lab *

**Unique courses for Pre-Med Track*



"Being able to work in a tighter knit community provided me special attention from my professors that I couldn't get from a big school. This allowed me to have the best chance at understanding all of my core science classes as well as having access to great local resources such as research opportunities during the summer. All in all, SNU undoubtedly paved a path for my success in the health sciences by providing a sense of community that I really don't think I could have gotten anywhere else."

-Maxwell Vargas

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