



STEM DIVISION PRE-DENTISTRY

— FOUR-YEAR PLAN —

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 a graduate Dentistry program 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 reverse side or go to snu.edu/gen-ed for more information on those courses.*

YEAR 1

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

YEAR 2

General Physics I (for Sci/Eng*) + Lab
General Physics II (for Sci/Eng*) + Lab
Genetics + Lab
Calculus II*
Microbiology + Lab

YEAR 3

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

YEAR 4

Chemistry or Biology Research + Lab
Advanced Biology Elective
Origins
Biology Field Course



GENERAL EDUCATION

General Education forms the foundation of every student's academic journey at SNU. As a Christian liberal arts university, we are committed to equipping students with the knowledge, values, and skills essential for their development as both thoughtful Christians and engaged community leaders. Our General Education curriculum is intentionally designed to be both comprehensive and flexible—allowing students to pursue their individual interests while ensuring they graduate prepared for lifelong learning, service, and growth.

The General Education program consists of approximately 51 credit hours that introduce and develop important skills such as the:

- Importance of thinking critically and solving problems
- Ability to communicate effectively
- Appreciation of human creativity
- Importance of science and technology in the 21st century
- Power of social responsibility in our community
- Awareness of global diversity
- Role of our Christian faith in daily life

Students take at least one foundational course and one upper-level windows course in each of these areas.

Central to SNU's mission is the engagement of students in transformational learning experiences designed to explore what it means to seek truth together with a Christ-centered community of scholars.

YEAR 1

- Composition I & Composition II
- Introduction to Speech
- A foundation course in Social Responsibility
- A foundation course in Science & Technology
- Christian Faith & Life

YEAR 2

- Modern World
- Aesthetics
- A foundation course in Critical Thinking & Problem Solving
- Old Testament or New Testament Literature & Life

YEAR 3

- A windows course in Social Responsibility
- A windows course in Effective Communication
- A windows course in Science & Technology
- A windows course in Critical Thinking & Problem Solving

YEAR 4

- A windows course in Global Perspectives
- A windows course in Artistic Expression
- Foundations of Christian Belief