

# Biomedical Science Bachelor of Science

## **Pre-Dentistry Concentration**

The Biomedical Science major is designed for highly motivated students who are considering a career in health science areas such as medicine. dentistry or veterinary medicine. The major focuses on those disciplines of the natural sciences and mathematics which will assist students in their preparation for matriculation into professional or graduate schools.

### Career Options:

- Medical or Dentistry Careers (with graduate training)
- · Public Health Careers
- Academic Research in University Settings
- · Research and Product Development in Medical Supply and Pharmaceutical Industries
- Laboratory Technology

### Major Requirements:

Life Science w/Lab Organic Chemistry I w/Lab Methods in Biology Organic Chemistry II w/Lab

Cell Biology Calculus I

**Evolution Elementary Statistics** Genetics General Physics I w/Lab Senior Seminar General Physics II w/Lab

General Chemistry I w/Lab General Chemistry II w/Lab

### **Concentration Requirements:**

#### Pre-Dentistry:

- · Anatomy and Physiology I
- · Anatomy and Physiology II
- · Vertebrate Zoology
- Microbiology
- · Biochemistry
- Histology

#### Additional Information:

Additional coursework may be required for admission into a specific school's program and entry into professional school may require a specific number of hours in related volunteer work.

#### Department Contact:

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# Biomedical Science

# Pre-Dentistry Concentration BS Undergraduate Plan

## General Education Requirements

Ι.	Interdisciplinary Requirements	Credits
	Ethics	3
	International Studies	3
	Total Hours	6
II.	Science Courses	Credits
	Mathematics	3
	Biology, including lab	4
	Physics, Earth Science or Chemistry, incl. lab	
	Total Hours	11
III.	Social Science Courses	Credits
	History, Political Science	3
	Communication, Economics, Geography	
	or Criminal Justice	3
	Psychology or Sociology	3
	Total Hours	9

IV. Humanities Courses	Credits
Religion	3
English Composition	6
Literature	3
Art, Music or Entertainment/Theatre	3
Total Hours	15
TOTAL GENERAL EDUCATION HOURS	41

Unless otherwise specified, transferred credits may be used to fulfill the general requirements at the Registrar's discretion.

Major	Requirements	Credits			Credits
BIO 101	Life Science	3	CHM 301	Organic Chemistry I	3
BIO 102	Life Science Lab	1	CHM 302	Organic Chemistry I Lab	1
BIO 123	Methods in Biology	2	CHM 311	Organic Chemistry II	3
BIO 200	Cell Biology	3	CHM 312	Organic Chemistry II Lab	1
BIO 222	Evolution	3	MAT 121	Calculus I	3
BIO 303	Genetics	4	MAT 213	Elementary Statistics	3
BIO 412	Senior Seminar	3	PHY 211	General Physics I	3
CHM 111	General Chemistry I	3	PHY 212	General Physics I Lab	1
CHM 112	General Chemistry I Lab	1	PHY 221	General Physics II	3
CHM 121	General Chemistry II	3	PHY 222	General Physics II Lab	1
CHM 122	General Chemistry II Lab	1			

## **Concentration Requirements**

Pre-Dentistry:		Credits			Credits
BIO 231	Anatomy and Physiology I	4	BIO 316	Microbiology	4
BIO 232	Anatomy and Physiology II	4	CHM 321	Biochemistry	3
BIO 314	Vertebrate Zoology	4	BIO 408	Histology	4

A customized plan will be developed for each student.

#### General Graduation Guidelines:

Total of 120 semester hours, 39 of which must be numbered 300 or 400.

(Other programs may require coursework beyond 120 semester hours.)

At least 9 semester hours of courses designated as writing intensive.

A declared major.

A cumulative GPA average of C (2.00) and at least a C average in the graduation major.