



Medical Sciences Field Of Emphasis *emph*

The Medical Sciences Field of Emphasis applies only to the Biology Major, B.S. This emphasis is neither a major nor minor, and further restricts the electives required for the Biology Major, B.S., degree. The selected courses prepare a student for entrance into professional medical programs.

Students planning to pursue professional medical programs should consult their Biology academic advisor early to assure appropriate preparation in areas not required for a Biology degree are included in their pre-professional academic program.

The student may substitute courses in the Medical Sciences Field of Emphasis for the required biology electives necessary to complete the Biology Major, B.S., degree.

Required Credits: 76

Required GPA: 2.25

I REQUIRED BIOLOGY CORE COURSES

AS REQUIRED FOR THE BIOLOGY MAJOR, B.S.

II REQUIRED MEDICAL SCIENCES CORE COURSES

COMPLETE THE FOLLOWING COURSES:

- BIOL 3250 Comparative Vertebrate Anatomy (4 credits)
- BIOL 3260 Medical Physiology (4 credits)
- BIOL 3580 Immunology (5 credits)
- BIOL 3710 Microbiology (4 credits)

III REQUIRED CAPSTONE EXPERIENCE

AS REQUIRED FOR THE BIOLOGY MAJOR, B.S.

IV REQUIRED MEDICAL SCIENCES ELECTIVES

SELECT 12 CREDITS OF ELECTIVES FROM THE FOLLOWING:

- BIOL 2110 Human Anatomy and Physiology (5 credits)
- BIOL 3380 Molecular Genetics: Theory and Practice (4 credits)
- BIOL 3590 Cell Biology (4 credits)
- BIOL 4210 Parasitology (4 credits)
- BIOL 4270 Histology (4 credits)
- CHEM 4411 Biochemistry I (3 credits)
- CHEM 4471 Biochemistry Laboratory I (1 credit)

V REQUIRED COURSES IN RELATED FIELDS

A. SELECT 1 OF THE FOLLOWING GROUPS:

GROUP 1:

- CHEM 2211 Principles of Chemistry I (4 credits)
- CHEM 2212 Principles of Chemistry II (4 credits)

GROUP 2:

- CHEM 1111 General Chemistry I (4 credits)
- CHEM 1112 General Chemistry II (4 credits)

B. SELECT 1 OF THE FOLLOWING COURSES:

- STAT 2610 Applied Statistics (4 credits)
- PSY 3401 Basic Statistics for Research (4 credits)

C. SELECT 1 OF THE FOLLOWING GROUPS:

GROUP 1:

- PHYS 2101 Physics I (5 credits)
- PHYS 2102 Physics II (5 credits)

GROUP 2:

- PHYS 1101 General Physics I (4 credits)
- PHYS 1102 General Physics II (4 credits)

D. COMPLETE THE FOLLOWING 4 COURSES:

- CHEM 3311 Organic Chemistry I (3 credits)
- CHEM 3312 Organic Chemistry II (3 credits)
- CHEM 3371 Organic Chemistry Laboratory I (1 credit)
- CHEM 3372 Organic Chemistry Laboratory II (1 credit)