• BIOMEDICAL SCIENCES (BMS)

Biomedical Sciences is designed to fulfill the major requirements for professional schools in the Health Sciences (e.g., Medicine, Veterinary Medicine, Dentistry). Students contemplating graduate study should pursue a major in the discipline of their interest, such as Biology, Chemistry, or Microbiology. Students must attain a C- or higher in all required courses for the Major.

Required Natural Science Courses:

Biology:
- BSC 2010 Biology I - Cellular Processes (3)
- BSC 2010L Biology I Lab (1)
- BSC 2011 Biology II - Diversity (3)
- BSC 2011L Biology II Lab (1)
- MCB 3020C General Microbiology (4)

Chemistry:
- CHM 2045 General Chemistry I (3)
- CHM 2045L General Chemistry I Lab (1)
- CHM 2046 General Chemistry II (3)
- CHM 2046L General Chemistry II Lab (1)
- CHM 2210 Organic Chemistry I (3)
- CHM 2210L Organic Chemistry I Lab (2)
- CHM 2211 Organic Chemistry II (3)
- CHM 2211L Organic Chemistry II Lab (2)

Mathematics:
- MAC 2241 Life Sciences Calculus I (4)
- MAC 2242 Life Sciences Calculus II (4)

or
- STA 2023 Introductory Statistics (4)

Physics:*
- PHY 2053 General Physics I (3)
- PHY 2053L General Physics I Lab (1)
- PHY 2054 General Physics II (3)
- PHY 2054L General Physics II Lab (1)

*Students may substitute Human Anatomy or Physiology I and II (BSC 2093C & 2094C) for Physics I & II

Required Biology Electives:

Minimum of 6 credit hours in TWO of the following courses. One course must be with lab. Select from the following courses, noting prerequisites where applicable:

- MCB 4404L Microbial Physiology and Genetics Lab (1)
- MCB 5815 Medical Mycology (3)
- PCB 4723L Animal Physiology Lab (1)

At least 12 hours of upper division required science courses must be completed as USF.

Required Natural Science Electives:

Minimum of 7 credit hours in Biology, Chemistry, or Physics. Select from the following list, noting prerequisites where applicable, and not duplicating courses used to meet the above requirements:

- BCH 3023L Biochemistry Lab (1)
- BCH 4034 Advanced Biochemistry (3)
- CHM 3120C Elem. Analytical Chemistry (4)
- CHS 4300 Clinical Chemistry (3)
- CHS 4301L Clinical Chemistry Lab (2)
- HSA 4120 Introduction to Public Health (3)
- HSC 4554 Survey of Human Disease (3)
- MCB 4115C Determinative Bacteriology (5)
- MCB 4404 Microbial Phys/Genetics (4)
- MCB 4404L Microbial Phys/Genetics Lab (1)
- MCB 4502 Virology (3)
- MCB 5206 Pub. Health/Pathogenic Micro (3)
- PCB 3023 Cell Biology (3)
- PCB 3023L Cell Biology Lab (1)
- PCB 3063 General Genetics (3)
- PCB 3063L General Genetics Lab (1)
- PCB 4064 Experimental Genetics (3)
- PCB 4731 ST: Applications of Physics to Biology and Medicine I (4)
- PHZ 4732 ST: Applications of Physics to Biology and Medicine II (4)
- ZOO 4753C Histology (4)
- ZOO 6511 Tropical Health Immunology (3)
- ZOO 4753C Histology (4)