

COURSES for the Degree Programs in BIOLOGY



B.S. in BIOLOGY

Required Courses: (31 credit hours)

BIOL 1301 Biology of Unicellular Organisms
 BIOL 1402 Biology of Plants
 BIOL 1403 Biology of Animals
 BIOL 2110 Environmental Seminar
 BIOL 3440 Comparative Anatomy
 BIOL 3460 Genetics
 BIOL 4430 Ecology
 BIOL 4450 Advanced Botany
 BIOL 4201 Senior Capstone
 BIOL 4101 Biological Literature

Electives (9 credit hours) taken from:

BIOL 4340 Biology Field Studies
 BIOL 4360 Evolution
 BIOL 4X91 Advanced Topics in Botany
 BIOL 4X92 Advanced Topics in Zoology

Supporting Courses: (30 credit hours)

CHEM 1410 & 1420 General Chemistry I & II
 CHEM 3410 & 3420 Organic Chemistry I & II **OR**
 CHEM 3440 Environmental Chemistry & GEOS
 1410 Physical Geology
 PHYS 1410 General Physics I
 MATH 2421 Calculus I **OR** MATH 3351 Statistics
 GEOS 3210 Geology of Texas
 GEOS 3220 Applied Environmental Geology
 GEOG 3330 Biogeography

B.S. in BIOMEDICAL SCIENCE

Required Courses: (31 credit hours)

BIMS 1300 Introduction to Scientific Research
 BIOL 1301 Biology of Unicellular Organisms
 BIMS 1101 Unicellular Organisms Lab
 BIOL 3410 Microbiology
 BIOL 3430 Human Physiology
 BIOL 3460 Genetics
 BIMS 4000 BIMS Junior Exam
 BIMS 4250 Advanced Bioscience Lab
 BIMS 4320 Molecular Cell Biology
 BIMS 4120 Molecular Cell Biology Lab
 BIMS 4X91 Advanced Topics in Microbiology and
 Public Health **OR** BIMS 4X92 Advanced Topics in
 Molecular Biology and Genetics (3 hrs)
 BIMS 4201 BIMS Senior Capstone
 BIOL 4101 Biological Literature

Electives (9 credit hours) taken from:

Any advanced BIOL or BIMS course
 KINE 3307 Nutrition
 CHEM 3441, CHEM 3442 Biochemistry I, II
 PSYC 4341 Physiological Psychology
 NURS 3410 Pathophysiology

Supporting Courses: (27-28 credit hours)

CHEM 1410 & 1420 General Chemistry I & II
 CHEM 3410 & 3420 Organic Chemistry I & II
 PHYS 1410 & 1420 General Physics I & II
 MATH 2421 Calculus I **OR** MATH 3351 Statistics

B.S. in LIFE SCIENCES

Required Courses: (26 credit hours)

BIOL 1301 Biology of Unicellular Organisms
 BIOL 1402 Biology of Plants
 BIOL 1403 Biology of Animals
 BIOL 3410 Microbiology
 BIOL 3460 Genetics
 BIOL 4430 Ecology
 BIOL 4201 or BIMS 4201 Senior Capstone
 BIOL 4101 Biological Literature

Options: (8 credit hours)

BIOL 2401 & 2402 Human Anatomy & Physiology I & II,
OR BIOL 3440 Comparative Anatomy & BIOL 3430
 Human Physiology

Electives (6 credit hours) taken from:

Any advanced BIOL or BIMS course

Supporting Courses: (15-16 credit hours)

CHEM 1405 & 1406 Fundamentals of Biological Chemis-
 try I & II, **OR** CHEM 1410 & 1420 General Chemistry I
 & II
 PHYS 1400 Intro Physics **OR** PHYS 1410 General Physics I
 MATH 2421 Calculus I **OR** MATH 3351 Statistics

A Required Minor (18-24 credit hours)

Any minor may be pursued. However, to prepare for
 teacher certification in Life Science (biology), choose
 the minor in Curriculum & Instruction (Grades 8-12).