

Bachelor of Arts in Biology Major Requirements (58-59 credit hours)	Total Hours Complete	Total Hours Needed
Biology (15 credit hours): BIOL 1351 – Introduction to Population Biology and Evolution (<i>co-req BIOL 1151</i>) BIOL 1151 – Introduction to Biology Practicum (<i>co-req BIOL 1351</i>) BIOL 1352 – Introduction to Cell and Molecular Biology (<i>co-req BIOL 1152</i>) BIOL 1152 – Basic Lab Techniques in Biology (<i>co-req BIOL 1352</i>) BIOL 3321 – Genetics (<i>pre-req BIOL 1351/1151/1352/1152; CHEM 1341/1141/1342/1142</i>) BIOL 3111 – Junior/Senior Seminar (<i>pre-req BIOL 3321 and junior or senior standing</i>) BIOL 4332 – Evolution (Capstone) (<i>pre-req BIOL 3321, senior standing</i>)		
Additional Biology Courses (14 credit hours) – Choose ONE course from each of the following 4 areas: Choices must include at least TWO laboratories. ECOSYSTEMS – Choose one of the following (3-4 credit hours): BIOL 3300 – Field Studies in Ecology and Environmental Science (<i>pre-req BIOL 3321</i>) BIOL 3331 – Ecology (<i>pre-req BIOL 3321</i>) BIOL 3336 – Environmental Toxicology (<i>pre-req CHEM 2343; BIOL 3321</i>) BIOL 3341 – Marine Biology (<i>pre-req BIOL 3321</i>) BIOL 3440 – Plant Physiological Ecology with laboratory (<i>pre-req CHEM 2343; BIOL 3321</i>) BIOL 4440 – Microbial Ecology with laboratory (<i>pre-req BIOL 3321/3331</i>) BIOL 4393 – Special Topics: Tropical Marine Ecology (<i>pre-req BIOL 3321</i>) ORGANISMS – Choose one of the following courses (3-4 credit hours): BIOL 2442 – Comparative Anatomy with laboratory (<i>pre-req BIOL 1351/1151/1352/1152; CHEM 1341/1141/1342/1142</i>) BIOL 3338 – Endocrinology (<i>pre-req BIOL 3321</i>) BIOL 3339 – Neuroscience (<i>pre-req BIOL 3321</i>) BIOL 3345 – Physiology (<i>pre-req BIOL 3321</i>) BIOL 3446 – Comparative Histology with laboratory (<i>pre-req BIOL 3321</i>) BIOL 3440 – Plant Physiological Ecology with laboratory (<i>pre-req CHEM 2343; BIOL 3321</i>) BIOL 3444 – Invertebrate Zoology with laboratory (<i>pre-req BIOL 3321</i>) BIOL 3445 – Developmental Zoology with laboratory (<i>pre-req BIOL 3321/3351</i>) BIOL 4354/4154 – Pathogenic Microbiology and laboratory (<i>pre-req BIOL 3321</i>) CELLS – Choose one of the following courses (3-4 credit hours): BIOL 3333/3133 – Microbiology and laboratory (<i>pre-req BIOL 3321</i>) BIOL 3334/3134 – Biochemistry and laboratory (<i>pre-req CHEM 2343/2143</i>) BIOL 3339 – Neuroscience (<i>pre-req BIOL 3321</i>) BIOL 3445 – Developmental Zoology with laboratory (<i>pre-req BIOL 3321/3351</i>) BIOL 3446 – Comparative Histology with laboratory (<i>pre-req BIOL 3321</i>) BIOL 3450 – Plant Physiology with laboratory (<i>pre-req CHEM 2343; BIOL 3321</i>) BIOL 3461 – Cell Biology with laboratory (<i>pre-req BIOL 3321</i>) BIOL 4354/4154 – Pathogenic Microbiology and laboratory (<i>pre-req BIOL 3321</i>) BIOL 4449 – Immunology with laboratory (<i>pre-req BIOL 3321</i>) MOLECULES – Choose one of the following courses (3-4 credit hours): BIOL 3121 – Genetics and Molecular Biology laboratory (<i>pre-req BIOL 1351/1151/1352/1152; CHEM 1341/1141/1342/1142; co-req BIOL 3321</i>) BIOL 3151 – Advanced Molecular Biology laboratory (<i>pre-req BIOL 3321/3121</i>) BIOL 3310 – Bioinformatics (<i>pre-req BIOL 2111/3321/3351</i>) BIOL 3334/3134 – Biochemistry and laboratory (<i>pre-req CHEM 2343/2143</i>) BIOL 3351 – Molecular Biology (<i>pre-req BIOL 3321; CHEM 2343</i>) BIOL 3461 – Cell Biology with laboratory (<i>pre-req BIOL 3321/3121</i>) BIOL 4450 – Microbial Genetics with laboratory (<i>pre-req BIOL 3321</i>)		
Chemistry (12 credit hours): CHEM 1341/1141 – General Chemistry I and laboratory CHEM 1342/1142 – General Chemistry II and laboratory (<i>pre-req CHEM 1341/1141</i>) CHEM 2343/2143 – Organic Chemistry I and laboratory (<i>pre-req CHEM 1342/1142</i>)		
Additional Chemistry Course (4 credit hours) – Choose one course and corresponding laboratory from the following: CHEM 2344/2144 – Organic Chemistry II and laboratory (<i>pre-req CHEM 2343/2143</i>) BIOL/CHEM 3334/3134 – Biochemistry and laboratory (<i>pre-req CHEM 2343/2143</i>) CHEM 3343/3143 – Quantitative Analysis and laboratory (<i>pre-req CHEM 1341/1342</i>)		
Physics (4 credit hours): PHYS 1331/1111 – General Physics I and laboratory		
Mathematics (3-4 credit hours) – Choose one course from the following: MATH 1331 – Pre-Calculus Algebra and Trigonometry MATH 1431 – Calculus I MATH 2434 – Applied Statistical Concepts MATH 3430 – Intermediate Statistics (<i>pre-req MATH 1431</i>)		
Foreign Language (6 credit hours) Two sequential courses in French, German, Greek, Latin, Spanish, Mandarin Chinese, Arabic, Irish, Italian or other available language		
Electives to reach the 126 credit hour minimum for graduation (21-22 credit hours)		
Total Required	126	

(_____ hours transferred)

_____ hrs complete + _____ hrs ip + _____ hrs core + _____ hrs major + _____ hrs minor + _____ hrs other + _____ hrs electives = 126+