



2023-2024 Catalog

Biology

Bachelor of Arts

Program

Biology

Prerequisites: A grade of "C" or better in BIOL 1351, 1151, 1352, and 1152 and CHEM 1341, 1141, 1342, and 1142 are prerequisites for all other biology courses. No biology course may be taken unless all prerequisites have been completed with a grade of "C" or better. Advanced placement credit or credit by examination may not be used as prerequisites for upper-division biology courses.

Biology courses may only be taken a maximum of three (3) times.

Foreign language (6 credit hours) study is required for the Bachelor of Arts degree and strongly recommended for the Bachelor of Science degree.

Students graduating with a degree in Biology, Cell and Molecular Biology or Computational Biology must have a minimum GPA of 2.00 in biology courses.

Note: All biology students must complete a Major Field Test prior to graduation

Total Credits 55

Biology			
Item #	Course Title		Credits
<input type="checkbox"/> BIOL 1351	Introduction to Population Biology and Evolution	BIOL 1351 Corequisite: BIOL 1151	3
<input type="checkbox"/> BIOL 1151	Introduction to Biology Practicum	BIOL 1151 Corequisite: BIOL 1351	1
<input type="checkbox"/> BIOL 1352	Introduction to Cell and Molecular Biology	BIOL 1352 Corequisite: BIOL 1152	3
<input type="checkbox"/> BIOL 1152	Basic Lab Techniques in Biology	BIOL 1152 Corequisite: BIOL 1352	1
<input type="checkbox"/> BIOL 3321	Genetics	Prerequisites (with a grade of 'C' or better): BIOL 1351/1151, 1352/1152 and CHEM 1341/1141.	3
<input type="checkbox"/> BIOL 3331	Ecology	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	3
<input type="checkbox"/> BIOL 3334	Biochemistry	BIOL 3334 Prerequisites (With Grade of 'C' or Better): CHEM 2343/2143	3
<input type="checkbox"/> BIOL 4332	Evolution	BIOL 4332 Prerequisites (With Grade of 'C' or Better): BIOL 3321 and Senior Standing.	3

Additional Upper Division Biology Courses

Choose four lecture courses and 3 lab courses. For 3 HR courses with 1 HR lab it is recommended to take them together. 4 HR courses include the lecture and the lab. *

Item #	Course Title		Credits
<input type="checkbox"/> BIOL 3345	Physiology	BIOL 3345 Prerequisite (With Grade of 'C' or Better): BIOL 1351/1151, 1352/1152	3
<input type="checkbox"/> BIOL 3333	Microbiology	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	3
<input type="checkbox"/> BIOL 3339	Neuroscience	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	3
<input type="checkbox"/> BIOL 3331	Ecology	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	3
<input type="checkbox"/> BIOL 3341	Marine Biology	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	3
<input type="checkbox"/> BIOL 3351	Molecular Biology	BIOL 3351 Prerequisites (With Grade of 'C' or Better): BIOL 3321, CHEM 2343	3
<input type="checkbox"/> BIOL 3362	Cancer Biology	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	3
<input type="checkbox"/> BIOL 4321	Nucleic Acids	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	3
<input type="checkbox"/> BIOL 4336	Cells, Genes and Molecules	BIOL 4336 Prerequisites: BIOL 3321, 3334, 3351	3
<input type="checkbox"/> BIOL 4354	Pathogenic Microbiology	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	3
<input type="checkbox"/> BIOL 3448	Comparative Anatomy	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	4
<input type="checkbox"/> BIOL 3461	Cell Biology	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	4
<input type="checkbox"/> BIOL 4449	Immunology	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	4
<input type="checkbox"/> BIOL 3121	Genetics and Molecular Biology Laboratory	Prerequisites (with a grade of 'C' or better): BIOL 1351/1151, 1352/1152 and CHEM 1341/1141, 1342/1142; Corequisite: BIOL 3321	1
<input type="checkbox"/> BIOL 3133	Microbiology Laboratory	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	1
<input type="checkbox"/> BIOL 3134	Biochemistry Lab	BIOL 3134 Prerequisites(With Grade of 'C' or Better): CHEM 2343, 2143	1
<input type="checkbox"/> BIOL 3151	Advanced Molecular Biology Laboratory	BIOL 3151 Prerequisites: BIOL 3321, 3121	1
<input type="checkbox"/> BIOL 4154	Pathogenic Microbiology Laboratory	BIOL Upper-Division Prerequisite (with a 'C' or better): BIOL 3321	1

Chemistry

Must take in order:

Item #	Course Title		Credits
<input type="checkbox"/> CHEM 1341	General Chemistry I	CHEM 1341 Corequisite: CHEM 1141	3
<input type="checkbox"/> CHEM 1141	General Chemistry I Laboratory	CHEM 1141 Corequisite: CHEM 1341	1
<input type="checkbox"/> CHEM 1342	General Chemistry II	CHEM 1342 Prerequisite (C or better): CHEM 1341/1141. Corequisite: CHEM 1142	3

<input type="checkbox"/>	CHEM 1142	General Chemistry II Laboratory	CHEM 1142 Corequisite: CHEM 1342	1
<input type="checkbox"/>	CHEM 2343	Organic Chemistry I	CHEM 2343 Prerequisite: CHEM 1342/1142; Corequisite: CHEM 2143.	3
<input type="checkbox"/>	CHEM 2143	Organic Chemistry I Laboratory	CHEM 2143 Corequisite: CHEM 2343	1

Physics

Choose **one pair** of the following:

Item #	Course Title		Credits	
<input type="checkbox"/>	PHYS 1331	General Physics I	PHYS 1331 Prerequisite: MATH 1430.	3
<input type="checkbox"/>	PHYS 1111	General Physics I Laboratory	PHYS 1111 Corequisite: PHYS 1331	1
<input type="checkbox"/>	PHYS 2333	University Physics I	PHYS 2333 Corequisites: PHYS 2111, MATH 1431	3
<input type="checkbox"/>	PHYS 2111	University Physics I Laboratory	PHYS 2111 Corequisite: PHYS 2333	1

Mathematics

Choose **one** of the following:

Item #	Course Title		Credits	
<input type="checkbox"/>	MATH 1431	Calculus I	MATH 1431 Prerequisite: MATH 1430 or department consent.	4
<input type="checkbox"/>	MATH 3450	Biostatistics I		4