

Biology • Bachelor of Science

Why Choose Biology?

The B.S. Biology program provides a quality bachelors degree in biology. Ferris is a recognized leader in vocational education, and students take 36 or more credit hours in biology courses plus eight or more semester credit hours in biology-related courses. The B.S. Biology program is individually designed, matching the abilities of each student with his/her academic interests. The B.S. Biology program at Ferris is flexible, allowing students of differing abilities and interests to choose a program of study that best fits them. The program also incorporates applied courses from the Ferris College of Allied Health Sciences and College of Pharmacy, creating a unique bachelors degree in biology.

Get a Great Job

Graduates of the B.S. Biology program are in high demand in the science and technology industry and may enter highly competitive professional programs. Students wishing to complete an allied health science degree program can work toward a bachelors degree in applied biology to increase their knowledge of basic science and increase their chances for employment advancement. Students may also choose to use this degree as a prerequisite for advanced study, such as medicine, dentistry or Optometry. Students may also choose to use their bachelors degree to pursue advanced degrees in the biological sciences. Because admission to advanced programs is competitive, academic excellence as an undergraduate is important.

Admission Requirements

First year student admission is open to high school graduates (or equivalent) who demonstrate academic preparedness, maturity and seriousness of purpose with educational backgrounds appropriate to their chosen program of study. High school courses and grade point average, ACT composite score, and ACT reading and mathematics subscores will be considered in the admission and placement process. Transfer students must have at least 12 credits at the time of application with a minimum 2.0 overall GPA including an English and mathematics course, or they must provide their high school records and ACT scores for admission review.

Graduation Requirements

The Biology program leads to a Bachelor of Science degree. Graduation requires a minimum 2.0 GPA overall and a minimum of 121 credits including completion of all general education requirements as outlined on the General Education website. No grade lower than a 'C-' is acceptable in courses that apply to the major, supporting sciences, and application area of the program. At least 50% of the semester credits applying toward the Biology major must be completed at FSU with a minimum of 30 FSU credits overall.

Required Courses

Credit Hours

General Education

This degree requires completion of the General Education requirements for a Bachelor of Science degree. Details of these requirements are delineated on the General Education website. Courses listed below as program/major required courses with the indicators: C, S, Z, R, G, may also be used to satisfy some of these general education requirements.

COMM 121	Fundamentals-Public Speaking	3
Biology Classes		
BIOL 121	General Biology 1	4
BIOL 122	General Biology 2	4
BIOL 375	Principles of Genetics	3
BIOL 460	Current Topics in BIOL	2
Biology Electives 300 or higher (consult advisor)		7 - 13

Choose one of the following three Microbiology courses:

BIOL 218	Microbial Ecology	3
BIOL 286	General Microbiology	3
BIOL 386	Microbiology and Immunology	5

Choose one sequence for Anatomy and Physiology

BIOL 205	Human Anatomy-Physiology	5
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Or

BIOL 205	Human Anatomy-Physiology	5
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And

BIOL 206	Advanced Human Physiology	3
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Or

BIOL 321	Human Physiology-Anatomy 1	4
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And

BIOL 322	Human Physiology-Anatomy 2	4
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Or

BIOL 353	Plant Physiology	4
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Choose one of the following three Ecology courses:

BIOL 346	Ecological Assessment	3
BIOL 347	Environmental Conservation	3
BIOL 442	Ecology	3

Supporting Sciences

MATH 120		3
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or higher

CHEM 121	General Chemistry 1	5
CHEM 122	General Chemistry 2	5

Choose one of the following two Organic Chemistry options:

CHEM 214	Fund of Organic Chemistry	4
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Or

CHEM 321	Organic Chemistry 1	5
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And

CHEM 322	Organic Chemistry 2	5
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Choose one of the following two Biochemistry courses:

CHEM 324	Fund of Biochemistry	3
CHEM 364	Biochemistry	4

Choose one of the following three Physics options:

PHYS 130	Concepts in Physics	4
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Or



More Information

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PHYS 211	Introductory Physics 1	4
And		
PHYS 212	Introductory Physics 2	4
Or		
PHYS 241	General Physics 1	5
And		
PHYS 242	General Physics 2	5
Additional Program Requirements		
Application area additional biology related credits (consult advisor)		5
Computer competence (consult advisor)		
COMM 121	Fundamentals-Public Speaking	3
Electives to a credit total of 121 credits (consult advisor)		