

Biology A.S. (BIOS)

The Biology program is intended for students who plan to transfer in the following areas of study: Allied Health, Biochemistry, Biology, Biomechanical Engineering, Chiropractic, Dentistry, Ecology, Environmental Biology, Genetics, Marine Biology, Medical Technology, Medicine, Molecular Biology, Optometry, Pharmacy, Veterinary Medicine, or related areas.

Upon successful completion of this program, graduates will be able to:

- understand concepts, laws, and principles of natural science and apply them to the solution of problems.
- demonstrate good experimental techniques, including making observations and measurements, constructing a hypothesis and designing an experiment to test it, and analyzing and interpreting experimental results.
- demonstrate effective communication skills, including the writing of laboratory reports based on experiments.
- demonstrate effective teamwork and work ethics through group laboratory projects.
- demonstrate competency in use of the international system of units.
- demonstrate effective library research skills.
- evaluate issues that impact biology, such as evaluating the developmental policies, legal or health policies.

Students should consult the catalog of the four-year college or university to which he or she plans to transfer to ensure that degree requirements are being properly met. Transfer information for this program is on file in the Transfer and University Center. For more information, contact an academic advisor or counselor.

First Semester		Credits
BIO 110	General Biology I	4
CHE 111	General Chemistry I	4
ENG 105	Research and Composition	3
Elective*	Mathematics	3-4
ENG 111	Speech	3
		17-18
Second Semester		
BIO 111	General Biology II	4
CHE 112	General Chemistry II	4
ENG 106	Introduction to Literature	3
Elective*	Mathematics	3-4
Elective	Social Science	3
		17-18
Third Semester		
CHE 205	Organic Chemistry I	4
Elective ⁺	Biology	4
Elective	Humanities	3
Elective [◆]	Mathematics/Science	3-4
		14-15
Fourth Semester		
CHE 206	Organic Chemistry II	4
Elective ⁺	Biology	4
Elective	Social Science	3
Elective	Humanities	3
		14
Credit Total		62

Students should consult their advisor and transfer four-year college or university for the most appropriate courses.

*MAT electives the student must choose from include MAT 160, 165, 170, 191, 196 or higher.

⁺BIO electives the student must choose from include BIO 137, 205, 218 or 220.

[◆]Math/Science electives the student must choose from include MAT courses 150 or higher. MAT 188 and MAT 203 may not be used to fulfill this requirement. Science courses (AST, BIO, CHE, PHY) must be numbered higher than 112, with the exception of AST 105.

Prior Learning Assessment: Previous job training, certificates and work experience that may qualify for college credit (*see academic advisor*).

Gateway Courses: Based on placement testing in reading, writing and math, these prerequisite courses may have to be taken before placement in College English or Mathematics beginning the first semester and concurrently.

RSS 099	Basic Skills Reading	3
RSS 100	Critical Reading	3
ENG 099	Basic Skills Writing	3
ENG 100	Fundamentals of Writing	3
MAT 090	Mathematical Literacy	6
ESL 251	English for Academic Purpose	6
		(Required for ESL students only.)

Please note, taking gateway courses will increase your time for completion.