

BIOLOGY

Associate of Science degree



Program and Career Description:

The Biology emphasis is a two-year program for students planning to complete a bachelor's degree in biology or a related discipline such as microbiology, genetics, biotechnology, and ecology. Students pursuing careers in biological research, science education, and wildlife management should consider this degree.

Career	Entry-Level Education	Entry-Level Pay	Median Pay	Experienced Pay
Biological Technician	Bachelor's degree	\$28,000	\$37,560	\$51,200
Environmental Scientist	Bachelor's degree	\$42,340	\$60,400	\$76,660
Biology Teacher, Secondary	Bachelor's degree	\$38,830	\$49,770	\$56,890

Career and salary information taken from JOBS4TN.GOV. Check out this website for additional information about job descriptions, education requirements and abilities, and supply and demand for these careers. For additional information from a national perspective, go to Bureau of Labor Statistics, U. S. Department of Labor on the internet at www.bls.gov. Visit the [Occupational Outlook Handbook](#) on this website. Salaries are not guaranteed.

Transfer Options

This program is a Tennessee Transfer Pathway (TTP) major. A student who completes the associates degree in this major is guaranteed that all required community college courses will be accepted in this major at the transfer institution. To see which four-year institutions offer this TTP major and guarantees a seamless transfer, visit the Tennessee Transfer Pathway website at www.tntransferpathway.org.

Articulation agreements exist between other private and non-TN public institutions. These agreements are available at www.columbiastate.edu/admissions/transfer-information.



BIOLOGY

Major in Tennessee Transfer Pathway with Emphasis in Biology (A.S.)

Program Requirements

Students may be required to take additional Learning Support courses.

Communications Requirement

COMM 2025 or COMM 2055
ENGL 1010, 1020

History Requirement (Take 2 courses)

HIST 2010, 2020, 2030, 2310, 2320

Humanities/Fine Arts (Take 3 courses -- one must be a literature course)

ART 1035, 2000, 2020
ENGL 2160, 2860
HUM 1010, 1020
MUS 1030
PHIL 1030, 1040, 2200
THEA 1030
Literature Options: ENGL 2055, 2130, 2235, 2310, 2320

Natural Sciences Requirement

BIOL 1110, 1120

Mathematics Requirement

MATH 1910

Social/Behavioral Sciences (Take 2 courses)

ANTH 1230, 1430
ECON 2100, 2200
GEOG 2010
MCOM 1110
PHED 2120
POLS 1010, 1030, 2025, 2035
PSYC 1030, 2130
SOC 1010, 1040, 2010

Major Required Courses

CHEM 1110, 1120, 2010, 2020**
COLS 101
MATH 1530 or MATH 1920*

*At UT-Knoxville, the math course must be MATH 1920.

**At UT-Knoxville, this sequence must be Organic Chemistry I and either a course in cell biology with laboratory or genetics with laboratory.

If you have completed TN eCampus courses, run a degree audit from the student tab in myChargerNet to determine how these courses apply to this program.

Requirements for Graduation include:

- earning 25% of total program credits in residence at Columbia State.
- earn a cumulative GPA of 2.0 or higher.
- taking the Exit Exam.

Sample Academic Plan

First Year – Fall Semester

___ BIOL 1110	General Biology I	4
___ CHEM 1110	General Chemistry I	4
___ MATH 1910	Calculus I	4
___ ENGL 1010	English Composition I	3
___ COLS 101	Columbia State College Success	1
		16

First Year – Spring Semester

___ BIOL 1120	General Biology II	4
___ CHEM 1120	General Chemistry II	4
___ MATH 1920*	Calculus II or	
___ MATH 1530	Introductory Statistics	3-4
___ ENGL 1020	English Composition II	3
		14-15

Second Year – Fall Semester

___ CHEM 2010	Organic Chemistry I**	4
___ Literature Requirement		3
___ History Requirement		3
___ Social/Behavioral Science		3
___ Humanities/Fine Arts		3
		16

Second Year – Spring Semester

___ CHEM 2020	Organic Chemistry II**	4
___ COMM 2025	Fundamentals of Communication or	
___ COMM 2055	Argumentation and Debate	3
___ History Requirement		3
___ Social/Behavioral Science		3
___ Humanities/Fine Arts		3
		16

TOTAL CREDIT HOURS 62-63

At some universities, foreign language may be required in certain programs that lead to the Bachelor of Science Degree. Complete information regarding foreign language requirements at each university may be found on the transfer and articulation web sites of the Tennessee Board of Regents and the University of Tennessee System. Community college students are encouraged to be familiar with foreign language requirements at the universities and, if applicable, complete the requirements before transferring.

For more information contact:

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or

**Science, Technology & Math Division office at
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