Triton College 2021-22 Catalog

Area of Study: **Science and Engineering**
Pathway: **Biological Science**
Degree type: **Associate in Science**
Curriculum Code: **SCI.BIS.AS (U230A26)**

(Total Program Credits: 60)

Biological Science majors may find careers available in biological research, teaching, state and federal government departments, such as environmental protection agencies, park services, departments of natural resources or in private industries, such as forest products, agriculture and food products.

PROGRAM LEARNING OUTCOMES:

At the successful completion of the Associate in Science Degree (Biological Sciences) emphasis, the graduate will be able to:

- solve problems based on scientific inquiry via the scientific method;
- present biological concepts with correct biological terms;
- explain biological processes at the molecular, cellular and organismal level;
- illustrate the relationship between structure and function in evolutionary biology;
- discuss the ecological relationships between organisms and their environments; and
- evaluate primary scientific literature to recognize quality research.

Placement Measures MAT, RHT, and COL sequence placement will be determined by an Academic Advisor. Contact your Academic Advisor before registering for courses.
Developmental education courses do not transfer. They assist students in the path towards college credit.

Program Map for Full-Time Students

Semester One: Fall	**Category**	**Next Steps**
CHM 140 General Chemistry I (5)	*Physical Science*	Meet with your Academic Advisor to create an academic plan. Explore transfer institutions and admissions requirements by attending transfer events.
BIS 150 Principles of Biology I (4)	*Life Science*	
RHT 101 Freshman Rhetoric & Composition I (3)	*Communication*	
Social and Behavioral Science General Education Course (3)	*Social and Behavioral Science*	

15 Credit Hours

Note: Grade of "C" or higher is an IAI requirement for RHT 101 and RHT 102.

Semester Two: Spring	**Category**	**Next Steps**
MAT 170 Elementary Statistics (4)	*Mathematics*	Meet with your Academic Advisor to update your academic and transfer plan.
BIS 151 Principles of Biology II (4)	*Life Science*	
RHT 102 Freshman Rhetoric & Composition II (3)	*Communication*	

CHM 141 General Chemistry II (5) Or PHY 101 General Physics (Mechanics, Heat & Sound) (5)	*Program Elective: (CHM 1141)* *Physical Science: (PHY 101)*	Create a Transferology account to explore how coursework transfers. Attend a Transfer 101 Workshop.

16 Credit Hours

Note: Grade of "C" or higher is an IAI requirement for RHT 101 and RHT 102.

Semester Three: Fall	**Category**	**Next Steps**
SPE 101 Principles of Effective Speaking (3)	*Communication*	Meet with your Academic Advisor to update your academic and transfer plan. Attend a Ready to Apply Workshop. GECC Credential Achieved.
MAT 131 Calculus & Analytic Geometry (5)	*Mathematics*	
CHM 234 Organic Chemistry I(5) Or PHY 102 General Physics (Electricity, Magnetism, Optics and Modern Physics) (5)	*Program Elective*	
Humanities General Education Course (3)	*Humanities*	

16 Credit Hours

Semester Four: Spring	**Category**	**Next Steps**
CHM 235 *Or* *Other Program Elective (4-5)*	*Program Elective*	Meet with your Academic Advisor to finalize your transfer plan. Submit graduation petition by deadline (check for the specific date in catalog or syllabi.) Apply to your transfer institution(s).
Program Elective (4-5) *Or* *Other BIS course (4-5)*	*Elective*	
Social and Behavioral Science General Education Course (3)	*Social and Behavioral Science*	
Fine Arts General Education Course (3)	*Fine Arts*	

14-16 Credit Hours

NOTE: Take one additional Humanities or Fine Arts and one additional Social and Behavioral Science course, to be eligible for the General Education Core Curriculum (GECC) Credential.

Program Electives (4-5):
BIS 101 Human Biology (4)
BIS 105 Environmental Biology (4)
BIS 222 Principles of Microbiology (4)
BIS 240 Human Anatomy and Physiology (4)
CHM 141 General Chemistry II (5)
CHM 234 Organic Chemistry I (5)
CHM 235 Organic Chemistry II (5)
PHY 101 General Physics (Mechanics, Heat & Sound) (5)
PHY 102 General Physics (Electricity, Magnetism, Optic & Modern Physics) (5)

(Select courses that meet the BA requirements of your transfer college.)

Graduation requirements:

AS degree	**Subtotal: 37-41**
Biological Sciences courses or other electives for AS degree	**Subtotal: 19-23**

General Education requirements:

- **Communications:** Three courses (nine semester hours).
- **Humanities and Fine Arts:** Two courses (six semester hours), with at least one course selected from Humanities and at least one course from the Fine Arts;
- **Social and Behavioral Science:** two courses (six semester credits), with courses selected from at least two disciplines.

  Graduation from an Illinois college or university requires satisfactory completion of one or more courses incorporating Human Diversity, which may be taken as a Humanities and Fine Arts or Social and Behavioral Science course.
- **Mathematics:** Two courses *(six to nine semester hours)*.
- **Physical and Life Science:** Three courses (10-11 semester hours), with at least one course selected from the Life Sciences and one course from the Physical Sciences and including at least one laboratory course.
- **Foreign Language encouraged if transferring to a four-year institution.**

Note: *This is a generic outline of courses for this program of study. Requirements may vary based on specialty and/or chosen transfer school. Meet with a curriculum counselor for specific transfer recommendations.*

See BIS course descriptions

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