

Arts and Sciences Division

## ASSOCIATE OF SCIENCE

# BIOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.

1270

**Biology** Department

Completed **Course Number Course Title** Credits **Pre- and Co-Requisites** Sem./Year FRESHMAN EXPERIENCE SSC101 Student Success Seminar^^ 1 Take first semester ENGLISH COMPOSITION AND ORAL COMMUNICATION: 6 credit hours ENG124 College Composition<sup>^</sup> (required) 3 ENG011 or Proficiency **ENG221 Technical Report Writing** 3 **ENG124** ENG231 College Composition II 3 **ENG124** COM121 Effective Speaking 3 3 **COM122** Interpersonal Communication SOCIAL AND BEHAVIORAL SCIENCES: 6 credit hours across two disciplines **PSY121** General Psychology^ 3 IDS102 or Proficiency SOC121 Sociology^ 3 IDS102 or Proficiency **BUS122** 3 Basic Economics^ IDS102 or Proficiency 3 SOC225 Diversity in American Society IDS102 or Proficiency **ARTS AND HUMANITIES: 6 credit hours across two disciplines ENG233** British Literature: Med to 1785 3 ENG124 British Literature: 1785 to Present 3 ENG234 **ENG124** American Literature: Colonial to 1865 3 **ENG236 ENG124** 3 **ENG237** American Literature: 1865 to Present **ENG124** HIS121 U.S. History I to 1877 3 3 HIS122 U.S. History II from 1877 PHL122 3 Ethics MATHEMATICS, STATISTICS, AND LOGIC: 4 credit hours minimum MTH023 or Pre-Co-MTH025 MTH125 College Algebra^ 4 or Proficiency Precalculus<sup>^</sup> – A student may take MTH125 MTH135 (College Algebra) and MTH130 (Trigonometry) 5 MTH025 or Proficiency over two semesters to satisfy this requirement. MTH135 or (MTH125 and **MTH223** Analytic Geometry and Calculus I^\* 4 MTH130) or Proficiency

^ Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

\*Required for Ohio Guaranteed Transfer Pathways in biology.

2025-26 Catalog

Effective Summer 2025

NATURAL SCIENCES: 18 credit hours required						
BIO141	General Biology I (lab)	4				
BIO141 BIO142	General Biology II (lab)	4				
CHM141	General Chemistry I (lab) ▲	5	MTH024 or MTH025 or CHM101 Minimum Grade of C or HS Chemistry 3			
CHM142	General Chemistry II (lab)	5	CHM141			
BIOLOGY COR	E ELECTIVES: 4-8 credit hours minimum as need	ed to meet	total credit hour requirement			
BIO200	Ecology (lab)▲-	4	BIO141 or BIO142			
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO127 or BIO141			
BIO241	General Genetics (lab)▲-	4	BIO141			
BIO242	Cell and Molecular Biology (lab)▲+	4	BIO141			
CAPSTONE: Set	lect a minimum of one course from the following		·			
SCI271	Special Topics in Science I	1	Sophomore in program			
SCI272	Special Topics in Science II	2	Sophomore in program			
SCI273	Special Topics in Science III	3	Sophomore in program			
CONCENTRATI	ON ELECTIVES: Select additional courses to com	plete the t	otal of 60 - 63 credit hours			
CHM241	Organic Chemistry I (lab)▲-	5	CHM142			
CHM242	Organic Chemistry II (lab)▲+	5	CHM241			
CHM243	Biochemistry I	3	CHM123 or CHM141			
CHM105	Introduction to Forensic Science (lab)	3				
CHM205	Forensic Chemistry (lab)	4	CHM123 or CHM141 or CHM105			
MTH124	Statistics^	3	MTH022 or Pre-Co-MTH024 or Proficiency			
PHY121	College Physics I with Algebra (lab)^	4	MTH135 or (MTH125 and MTH130) or Proficiency			
PHY122	College Physics II with Algebra (lab)▲+	4	PHY121			
<b>TOTAL CREDIT HOURS</b> (60 credits minimum)						

<sup>^</sup> Based on SSC placement scores

A Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

<sup>▲-</sup>Fall only courses. Please see your academic advisor for availability.

### Effective Summer 2025

## BIOLOGY

## FULL-TIME STUDENT ADVISING NOTES

## Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

### Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time students who plan to finish in two years.

## Elective Additional Credit

Self-selection of courses and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit Transferology at <u>http://www.transferology.com</u> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer 36 approved and TAG approved courses.

### Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

First Semester		Credit Hours	Pre- and Co-requisites
SSC101	Student Success Seminar^^	1	Take first semester
BIO141	General Biology I (lab)	4	
CHM141	General Chemistry I <sup>∧</sup> (lab) ▲	5	MTH024 or MTH025 or
			CHM101 Minimum Grade of C
			or HS Chemistry 3
Mathematics, Statistics, and Logic Elective <sup>4</sup>		<u>4-5</u>	Check for prerequisite
		14-15	
Second Semester			
BIO142	General Biology II (lab)	4	
CHM142	General Chemistry II (lab)	5	CHM141
ENG124	College Composition <sup>^</sup> (required)	3	ENG011 or Proficiency
Social and Behavioral Science Elective <sup>2</sup>		<u>3</u>	Check for prerequisite
		15	
Summer			
English Composition and Oral Communication Elective <sup>1</sup>		3	Check for prerequisite
Concentration Group Elective <sup>6</sup>		<u>3-5</u> <b>6-8</b>	Check for prerequisite
		6-8	
Third Semester			
Biology Core Elective <sup>5</sup>		4	Check for prerequisite
Arts and Humanities Elective <sup>3</sup>		3	Check for prerequisite
Social and Behavioral Science Elective <sup>2</sup>		3	Check for prerequisite
Concentration Elective <sup>6</sup>		<u>3-5</u>	Check for prerequisite
		13-15	
Fourth Semester			
SCI271, SCI272, or	Special Topics in Science I, II, or III	1-3	Sophomore in program
SCI273			
Arts and Humanities Elective <sup>3</sup>		3	Check for prerequisite
Biology Core Elective <sup>5</sup> OR Mathematics, Statistics, and Logic Elective <sup>4</sup>		4	Check for prerequisite
Concentration Elective <sup>6</sup>		<u>3-5</u>	Check for prerequisite
		13-15	
	TOTAL CREDITS	60-63	

^ Based on SSC placement scores

^^ To promote student success, this course should be taken in the first semester

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<sup>1</sup> English Composition and Oral Communication Electives: COM121, COM122, ENG221, ENG231

<sup>2</sup> Social and Behavioral Science Electives: PSY121, SOC121 SOC225,, BUS122

<sup>3</sup> <u>Arts and Humanities Electives</u>: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

<sup>4</sup> Mathematics, Statistics, and Logic Electives: MTH125 or MTH135 or MTH223

<sup>5</sup> Biology Core Electives: BIO200, BIO221, BIO241, BIO242

<sup>6</sup> Concentration Electives: CHM241, CHM242, CHM243, CHM105, CHM205, MTH124, PHY121 or PHY122

▲+Spring only courses. Please see your academic advisor for availability.