

# BIOLOGY, ASSOCIATE IN SCIENCE



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0211

## Sample Transfer Pathway

When you think of life on earth, your first thoughts are probably about familiar animals. That is only a small sample of the types of life on our planet, which include plants, bacteria, fungi, and animals in a vast array of body forms and types. Biology is the study of life, individual organisms, their communities, and the systems, cells, and processes that make up living matter. With an AS degree you can transfer to a four-year college as a junior, obtain your bachelor's degree and work in fields like biochemistry, genetics, marine biology, zoology, ecology and much more.

This is an **example course sequence** for students interested in pursuing Biology. This pathway does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Science (AS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. Following this pathway will help you get your associate degree, which will increase your chances of transfer to Bachelor's-level programs of study. Choose Illinois Articulation Initiative (IAI) courses to fulfill general education requirements whenever possible. Visit [www.itransfer.org](http://www.itransfer.org) (<http://www.itransfer.org>) and speak with your college advisor to learn more about IAI.

## Semester-by-Semester Example Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Semester 1		Hours
ENGLISH 101	Composition <sup>1</sup>	3
PSYCH 201	General Psychology <sup>1</sup>	3
MATH 140	College Algebra <sup>1</sup>	4

BIOLOGY 121	Biology I <sup>1</sup>	5
<b>Hours</b>		<b>15</b>
<b>Semester 2</b>		
ENGLISH 102	Composition <sup>1</sup>	3
BIOLOGY 122	Biology II <sup>1</sup>	5
SPEECH 101	Fundamentals Of Speech Communication <sup>1</sup>	3
Social and Behavioral Sciences course (HD) <sup>1</sup>		3
<b>Hours</b>		<b>14</b>
<b>Semester 3</b>		
Pathway Elective (p. 1) <sup>2</sup>		4
MATH 125	Introductory Statistics <sup>1</sup>	4
Humanities course <sup>1</sup>		3
CHEM 201	General Chemistry I <sup>1</sup>	5
<b>Hours</b>		<b>16</b>
<b>Semester 4</b>		
Fine Arts course <sup>1</sup>		3
Pathway Elective (p. 1) <sup>2</sup>		4
Pathway Elective (p. 1) <sup>2</sup>		4
CHEM 203	General Chemistry II <sup>2</sup>	5
<b>Hours</b>		<b>16</b>
<b>Total Hours</b>		<b>61</b>

<sup>1</sup> General Education Requirement

<sup>2</sup> Pathway Elective (p. 1)

## Pathway Electives

Code	Title	Hours
BIOLOGY 122	Biology II	5
BIOLOGY 226	Human Structure and Function I	4
BIOLOGY 227	Human Structure and Function II	4
BIOLOGY 241	Genetics	3
BIOLOGY 242	Evolution	2-3
BIOLOGY 251	Molecular Biology I	4
BOTANY 201	General Botany I	4
CHEM 121	Basic Chemistry I <sup>1</sup>	4

CHEM 203	General Chemistry II	5
CHEM 205	Organic Chemistry I	6
CHEM 207	Organic Chemistry II	6
CHEM 212	Survey of Organic & Biochemistry	4
Select one of the following:		6-8
MATH 140 & MATH 141	College Algebra and Plane Trigonometry	
MATH 143	Pre Calculus <sup>2</sup>	
MATH 207	Calculus & Analytic Geometry I	5
MATH 208	Calculus & Analytic Geometry II	5
MCROBIO 233	General Microbiology	4
PHYSICS 221	Mechanics, Waves, and Heat	5
PHYSICS 222	Electricity, Light and Modern Physics	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5

<sup>1</sup> CHEM 121 Basic Chemistry I should only be taken if the student needs it for admittance into CHEM 201 General Chemistry I.

<sup>2</sup> MATH 143 Pre Calculus should only be taken if the student needs it for admittance into MATH 207 Calculus & Analytic Geometry I.

***Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.***

Institution-specific transfer guides and agreements can be found on CCC's transfer site (<https://www.ccc.edu/services/Pages/Transfer-Guides.aspx>).