

# IVCC to IOWA STATE UNIVERSITY

## BACHELOR OF SCIENCE IN BIOLOGY

### IOWA VALLEY COMMUNITY COLLEGE (IVCC) TRANSFER PLAN

A Bachelor of Science (B.S.) degree in Biology requires a minimum of 120 credits and a maximum of 65 credits earned at a 2-year college may be applied. The following courses are suggested for students planning to transfer into Biology; each will satisfy specific Biology major degree requirements. Other courses may also be appropriate for particular career aspirations so we recommend discussing a transfer plan with a Biology advisor.

### Questions about transferring into Biology?

Contact us at:  
 Email: [biology@iastate.edu](mailto:biology@iastate.edu)  
 Phone: (515) 294-1064

### Recommended Biology Courses

IVCC Course	Course Name	ISU Equivalent
BIO 112	General Biology I with lab	BIOL 2110+L and BIOL 2120+L
BIO 113	General Biology II with lab	

***ATTENTION!*** Both BIO 112 and BIO 113 must be taken to satisfy Biology Degree requirements. Students who do not take both courses must take both BIOL 2110+L and BIOL 2120+L at ISU.

### Recommended Chemistry Courses

IVCC Course	Course Name	ISU Equivalent
CHM 166 or 165	General Chemistry I with lab	CHEM 1770+L
CHM 176 or 175	General Chemistry II with lab	CHEM 1780+L
CHM 261	Organic Chemistry I with lab	CHEM 3310+L
CHM 271	Organic Chemistry II with lab	CHEM 3320+L

### Recommended Mathematics Courses

IVCC Course	Course Name	ISU Equivalent
MAT 156	Statistics	STAT 1040
MAT 210	Calculus I	MATH 1650

### Recommended Physics Courses

IVCC Course	Course Name	ISU Equivalent
PHY 162	College Physics I with lab	PHYS 1310+L
PHY 172	College Physics II with lab	PHYS 1320+L

A complete course equivalency guide can be found at: <https://www.iastate.edu/course-equivalency-guides>

## Recommended Communications Courses

IVCC Course	Course Name	ISU Equivalent
ENG 105	Composition I	ENGL 1500
ENG 106	Composition II	ENGL 2500
SPC 112	Public Speaking	SPCM 2120

**NOTE!** Students with transfer credit for ENGL 2500 but not ENGL 1500 will be required to take a 3000-level communications course at ISU.

## General Recommendations and General Education Courses

Because the Biology degree at Iowa State University is science intensive, we recommend focusing on biology, chemistry, math, and physics when planning. Take at least two science/math courses each term then add communications and gen-ed courses as desired. There are many gen-ed courses to choose from; select what sounds interesting or focus on practical knowledge for a future career. All students need some electives to complete their degree so it is okay to take courses that don't count towards specific requirements at ISU.

### IVCC EXAMPLE 4-SEMESTER TRANSFER PLAN

This example plan is optimal for students interested in human/animal medicine (pre-med/health/vet) or careers in genetics, cell biology, and molecular biology. Students interested in other fields may reduce the amount of calculus, chemistry, and physics. Discuss alternative transfer plans with academic advisors.

<i>Semester 1</i>	<i>ISU</i>	<i>Credits</i>	<i>Semester 2</i>	<i>ISU</i>	<i>Credits</i>
SDV 108	ORTR 1000T	1	BIO 113	BIOL 2000T*	4
BIO 112	BIOL 2000T*	4	CHM 176	CHEM 1780+L	5
CHM 166	CHEM 1770+L	5	MAT 210	MATH 1650	4
ENG 105	ENGL 1500	3	General Education Choice	varies	3
General Education Choice	varies	3	<i>Total Semester Credits</i>		<i>16</i>
<i>Total Semester Credits</i>		<i>16</i>			

<i>Semester 3</i>	<i>ISU</i>	<i>Credits</i>	<i>Semester 4</i>	<i>ISU</i>	<i>Credits</i>
MAT 156	STAT 1040	3	CHM 271	CHEM 3320+L	4
CHM 261	CHEM 3310+L	4	PHY 172	PHYS 1320+L	4
PHY 162	PHYS 1310+L	4	SPC 112	SPCM 2120	3
ENG 106	ENGL 2500	3	General Education Choice	varies	3
<i>Total Semester Credits</i>		<i>14</i>	<i>Total Semester Credits</i>		<i>14</i>

\*When both BIO 112 and BIO 113 are taken they transfer as BIOL 2110+L and BIOL 2120+L at ISU.