

**Genetics Transfer Plan, College of Liberal Arts and Sciences  
Equivalency with Indian Hills Community College**

**First Semester**

Course Title (IHCC)	IHCC	ISU	Credits
College Writing I	ENG 105	ENGL 150	3
Biology I	BIO 120	BIOL 211	3
Biology I Lab		BIOL 211L	1
Chemistry I	CHM 166	CHEM 177	4
Chemistry I Lab		CHEM 177L	1
Statistics	MAT 156	STAT 104	3
<b>OR</b> Calculus I	MAT 210	MATH 165	<u>4</u>
			15-16

**Second Semester**

Course Title (IHCC)	IHCC	ISU	Credits
College Writing II	ENG 106	ENGL 250	3
Biology II	See details below	BIOL 212	4
Biology II Lab	BIO 121 & 122	BIOL 212L	2
Chemistry II	CHM 176	CHEM 178	4
Chemistry II Lab		CHEM 178L	1
Humanities or Social Science	See details below		3
<b>OR</b> Calculus II	MAT 216	MATH 166	<u>4</u>
			17-18

**Third Semester**

Course Title (IHCC)	IHCC	ISU	Credits
Humanities	See details below		3
General Physics I	See details below	PHYS 111	4.5
Organic Chemistry I	See details below	CHEM 331	3
Organic Chemistry I Lab		CHEM 333L	1.5
Social Science	See details below		<u>3</u>
			15

**Fourth Semester**

Course Title (IHCC)	IHCC	ISU	Credits
Introduction to Ethics	PHI 105	PHIL 230	3
College Physics II	See details below	PHYS 112	4.5
Organic Chemistry II	See details below	CHEM 332	3
Organic Chemistry II Lab		CHEM 334L	1.5
International Perspective	See details below		<u>3</u>
			15

The Genetics major requires completion of two semesters **with labs** of each of the following sciences: **General Biology, General Chemistry, Organic Chemistry, and Physics**. At ISU, the labs are included in Phys 111/112 while the Biology and Chemistry labs are designated as "L". Chem 333L will be substituted for the one credit 331L required by the major. The Genetics major also requires completion of **either two semesters of Calculus and one semester of Statistics or two semesters of Statistics (one at the 300 level) and one semester of Calculus**. **Students should plan to take all semesters of any multi-semester sequence of courses at the same institution** because each institution distributes the course material differently between courses in a sequence. **Students taking Biology at IHCC must take both BIO 120 and the**

**combination of BIO 121 and 122 to receive credits for Biology 211/L and 212/L.** When taken singly, the courses are not equivalent, however when taken as a series the courses are deemed equivalent to 211/212.

Organic Chemistry I, CHM 251, Organic Chemistry II, CHM 252, and Organic Chemistry III, CHM 253, are all required to fulfill ISU CHEM 331, 331L, 332, and 332L and General Physics I, PHY 151, General Physics II, PHY 152, and General Physics III, PHY 153, are all required to fulfill ISU PHYS 111 and PHYS 112.

This transfer plan differs from what ISU Genetics majors typically take primarily in the following: Genetics and Molecular Cell Biology courses are taken during the third and fourth semesters and Physics I and II during the fifth and sixth semesters.

### **General Education Requirements**

Typical courses that fulfill the College of Liberal Arts and Sciences requirements for Humanities and Social Sciences and the University International Perspectives and US Diversity and US Diversity requirements are listed below.

Humanities (need 4 courses, 12 cr, including one Science/Humanities Bridge course)

Courses from History such as IHCC HIS 110, 111, 151, 152  
CLS 175, DRA 101, REL 101, WST 101, EDU 235  
Science/Humanities Bridge course PHI 105

Social Sciences (need 3 courses, 9 cr)

Courses from Political Science such as IHCC POL 111, 121  
Courses from Psychology such as IHCC PSY 111, 121, 251, 281; SDV 114  
Courses from Sociology such as IHCC SOC 110, 115, 120

ISU International Perspectives requirement (need 1 course, 3 cr)

IHCC REL 101  
IHCC HIS 110, 111

US Diversity (need 1 course, 3 cr)

IHCC CLS 175, IHCC WST 101

For a full list of IHCC courses which transfer to ISU see the Iowa State University Admissions web page: <http://www.admissions.iastate.edu/equiv/iowa.php?type=transfer>

*This guide was developed to assist students planning to attend Iowa State University to major in Genetics in the College of Liberal Arts and Sciences. The equivalency table is based on the ISU 2017-18 Catalog and course equivalencies provided by the ISU Admissions office. Students should contact Dr. Lois Girton, Genetics advising coordinator ([lgirton@iastate.edu](mailto:lgirton@iastate.edu) or 515-294-0616), for more assistance. **Students should also plan to visit with an advisor in Genetics at ISU prior to beginning their second year of studies, or earlier.***