

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

**First Semester**

Course Title (HCC)	HCC	ISU	Credits
Composition I	ENG 105	ENGL 150	3
Principles of Biology	BIO 112	BIOL 211	3
Principles of Biology Lab		BIOL 211L	1
General Chemistry I	CHM 165	CHEM 177	3
General Chemistry I Lab		CHEM 177L	1
Calculus I	MAT 210	MATH 165	4
			15

**Second Semester**

Course Title (HCC)	HCC	ISU	Credits
Composition II	ENG 106	ENGL 250	3
Biology of Organisms	BIO 113	BIOL 212	3
Biology of Organisms Lab		BIOL 212L	1
General Chemistry II	CHM 175	CHEM 178	3
General Chemistry II Lab		CHEM 178L	1
Humanities or Social Science	See details below		3
<b>OR</b> Calculus II	MAT 216	MATH 166	4
			13-14

**Third Semester**

Course Title (HCC)	HCC	ISU	Credits
Humanities	See details below		3
General Physics I	PHY 162	PHYS 111	4
Organic Chemistry I	CHM 260	CHEM 331	3
Social Science	See details below		3
			13

**Fourth Semester**

Course Title (HCC)	HCC	ISU	Credits
Introduction to Ethics	PHI 105	PHIL 230	3
General Physics II	PHY 172	PHYS 112	4
Organic Chemistry II	CHM 270	CHEM 332	3
International Perspective	See details below		3
			13

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". Students will need to take the Organic Chemistry Labs at ISU. 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 both semesters of any two-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 Hawkeye must take both Biol 112 and 113 to receive credits for Biology 211/L and 212/L**. When taken singly, the courses are not equivalent, however when taken as a series 112/113 is equivalent to 211/212.

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 requirements are listed below. Other courses may apply; contact an advisor in Genetics at ISU or use the TRANSIT function on Iowa State's website: <https://transit.iastate.edu/> to check individual course equivalencies.

Humanities (need 4 courses, 12 cr, including one course, 3 cr, Science/Humanities Bridge)

Courses from History such as HIS 151, 152

Courses from Humanities such as HCC HIS 112, 113

Courses from Literature such as HCC LIT 101

Science/Humanities Bridge required by major (3 cr) PHI 105

Social Sciences (need 3 courses, 9 cr)

Courses from Psychology such as HCC PSY 111, 121, 251

Courses from Sociology such as HCC SOC 110, 115, 120, 205, 220, 230

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

HCC Philosophy REL 101 Religions of the World

HCC MUS 100 Music Appreciation

ISU US Diversity requirement (need 1 course, 3 cr)

Courses from Sociology such as SOC 115, 205, 261

For a full list of HCC courses that 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 2019-20 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.***