

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

First Semester

Course Title (ICCC)	ICCC	ISU	Credits
English 1	ENG 105	ENGL 150	3
Biology 1	BIO 112	BIOL 212	3
Biology 1 Lab		BIOL 212L	1
Chemistry 1	CHM 165	CHEM 177	3
Chemistry 1 Lab		CHEM 177L	1
Principles of Statistics 1	MAT 156	STAT 104	3
OR Calculus and Analytic Geometry 1	MAT 210	MATH 165	<u>4</u>
			14-15

Second Semester

Course Title (ICCC)	ICCC	ISU	Credits
English 2	ENG 106	ENGL 250	3
Biology 2	BIO 113	BIOL 211	3
Biology 2 Lab		BIOL 211L	1
Chemistry 2	CHM 175	CHEM 178	3
Chemistry 2 Lab		CHEM 178L	1
Humanities or Social Science	See details below		3
OR Calculus and Analytic Geometry 2	MAT 216	MATH 166	<u>4</u>
			14-15

Third Semester

Course Title (ICCC)	ICCC	ISU	Credits
Humanities	See details below		3
General Physics 1	PHY 162	PHYS 111	4
Organic Chemistry 1	CHM 261	CHEM 331	3
Organic Chemistry 1 Lab		CHEM 331L	1
Social Science	See details below		<u>3</u>
			14

Fourth Semester

Course Title (ICCC)	ICCC	ISU	Credits
Introduction to Ethics	PHI 145	PHIL 230	3
General Physics 2	PHY 172	PHYS 112	4
Organic Chemistry 2	CHM 271	CHEM 332	3
Organic Chemistry 2 Lab		CHEM 332L	1
International Perspective	See details below		<u>3</u>
			14

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. 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 ICC must take both Biol 125 and 131 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.

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 Science/Humanities Bridge course)

Courses from History such as ICCc HIS 112, 113, 151, 152

Courses from Literature such as ICCc LIT 101, 114

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

Social Sciences (need 3 courses, 9 cr)

Courses from Political Science such as ICCc POL 111, 121

Courses from Psychology such as ICCc PSY 111, 121, 251, 281

Courses from Sociology such as ICCc SOC 110, 115, 120

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

ICCC REL 105 Introduction to Religion

ICCC HIS 112, 113

ICCC MUS 102

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

Sociology ICCc SOC 115

For a full list of ICCc 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 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.***