Genetics Transfer Plan, College of Agriculture and Life Sciences
Equivalency with Northwest Iowa Community College

First Semester

Course Title (NWICC)	NWICC	ISU	Credits
College Composition I	ENG 105	ENGL 150	3
*General Biology I	BIOL 102	BIOL 211	3
*General Biology II Lab	BIOL 103	BIOL 211L	1
Humanities or Social Science	See details below		3
Calculus I	MAT 210-211	MATH 165	4 -5
			14-15

Second Semester

Course Title (NWICC)	NWICC	ISU	Credits
College Composition II	ENG 106	ENGL 250	3
*General Biology II	BIOL 105	BIOL 212	3
*General Biology II Lab	BIOL 106	BIOL 212L	1
Humanities or Social Science	See details below		3
Calculus II	MAT 216	MATH 166	4
			14

* Only when BIO 102, 103, 105, and 106 are all taken the courses transfer as BIOL 211 & L and BIOL 212 & L.

Third Semester

Course Title (NWICC)	NWICC	ISU	Credits
Humanities or Social Science	See details below		3
College Physics I	PHY 110	PHYS 111	4
Speech	SPC 112	SP CM 212	3
Statistics	MAT 156	STAT 104	4
			14

Fourth Semester

Course Title (NWICC)	NWICC	ISU	Credits
Ethics Course	See details below		3
College Physics II	PHY 111	PHYS 112	4
International Perspective	See details below		3
US Diversity	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". **There are no Chemistry courses offered by NWICC that transfer as the appropriate Chemistry courses for the major.** Therefore, students who attend NWICC will need to complete additional semesters at ISU to obtain the degree. Expect to take summer classes or additional semesters. Although NWICC Chemistry courses are not part of the ISU degree program, students should plan to take some Chemistry at NWICC to prepare.
The Genetics major also requires completion of **either two semesters of Calculus and one semester of Statistics or two semesters of Statistics and one semester of Calculus**. Students

should plan to take these requirements at NWICC so that they can concentrate on Chemistry requirements after transferring. **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.
This transfer plan differs from what ISU Genetics majors typically take primarily in the following: General and Organic Chemistry are typically completed during the first four semesters; 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 Agriculture and Life Sciences requirements for Humanities, Social Sciences, Ethics, 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 1 course, 3 cr)
- Courses from History such as NWICC HIS 110, 111, 151, 152
- Courses from Literature such as NWICC LIT 201, 226, 227, 228
- NWICC MUS 100
- Courses from Philosophy such as NWICC PHI 101,105, 111

Social Sciences (need 1 course, 3 cr)
- Courses from Political Science such as NWICC POL 111
- Courses from Psychology such as NWICC PSY 111, 121, 251
- Courses from Sociology such as NWICC SOC 110, 115, 120

Ethics (need 1 course, 3 cr)
- Philosophy NWICC PHI 105

ISU International Perspectives requirement (need 1 course, 3 cr)
- History NWICC HIS 151, 152

ISU US Diversity (need 1 course, 3 cr)
- Sociology NWICC SOC 115; Education NWICC EDU 235; Psychology PSY 261

For a full list of NWICC 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 Agriculture and Life Sciences. The equivalency table is based on the ISU 2014-15 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.

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