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

<u>First Semester</u>			
Course Title (SWICC)	SWICC	ISU	Credits
English Composition I	ENG 105	ENGL 150	3
Biology I	BIO 112	BIOL 211	3
Biology I Lab		BIOL 211L	1
Inorganic Chemistry I	CHM 166	CHEM 177	4
Inorganic Chemistry I Lab		CHEM 177L	1
Introduction to Statistics	MAT 156	STAT 104	3
OR Calculus I	MAT 210	MATH 165	4
			15-16
Second Semester			
Course Title (SWICC)	SWICC	ISU	Credits
English Composition II	ENG 106	ENGL 250	3
Biology II	BIO 113	BIOL 212	3
Biology II Lab		BIOL 212L	1
Inorganic Chemistry II	CHM 176	CHEM 178	4
Inorganic Chemistry II Lab		CHEM 178L	1
Humanities or Social Science	See details below		3
OR Calculus II	MAT 216	MATH 166	4
			14-15
Third Semester			
Course Title (SWICC)	SWICC	ISU	Credits
Humanities	See details below		3
General Physics I	PHY 162	PHYS 111	4
Organic Chemistry I	CHM 261	CHEM 331	3
Organic Chemistry I Lab		CHEM 331L	1
Social Science	See details below		3
			14
Fourth Semester			
Course Title (SWICC)	SWICC	ISU	Credits
Introduction to Ethics	PHI 105	PHIL 230	3
General Physics II	PHY 172	PHYS 112	4
Organic Chemistry II	CHM 271	CHEM 332	3
Organic Chemistry II Lab		CHEM 332L	1
International Perspective	See details below		3
			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". Two credit organic chemistry labs transfer as Chem 333L and 334L which will be substituted for the one credit 331L and 332L 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 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 SWICC must take both BIO 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 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, 3 cr)
Courses from History such as SWICC HIS 110, 111, 151, 152
Courses from Literature such as SWICC LIT 101, 105, 110, 111, 140, 141
PHI 101; MUS 100
Science/Humanities Bridge Course SWICC PHI 105

Social Sciences (need 3 courses, 9 cr)

Courses from Political Science such as SWICC POL 111 Courses from Psychology such as SWICC PSY 111, 121, 251, 261 Courses from Sociology such as SWICC SOC 110, 235, 219

ISU International Perspectives requirement (need 1 course, 3 cr) SWICC Religion REL 101 Survey of World Religions SWICC History HIS 110, 111

ISU US Diversity requirement (need 1 course, 3 cr)
Literature SWICC LIT 105; Sociology SWICC SOC 115

For a full list of SWICC 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 2019-20 Catalog and course equivalencies provided by the ISU Admissions office. Students should contact Dr. Lois Girton, Genetics advising coordinator (<u>lgirton@iastate.edu</u> 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.