Genetics Transfer Plan, College of Liberal Arts and 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

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

* 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
Humanities/Science Bridge | PHI 105 | PHIL 230 | 3
Statistics | MAT 156 | STAT 104 | 4

Fourth Semester
Course Title (NWICC) | NWICC | ISU | Credits
--- | --- | --- | ---
Humanities or Social Sciences | See details below | | 3
College Physics II | PHY 111 | PHYS 112 | 4
International Perspective | See details below | | 3
US Diversity | See details below | | 3

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 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/](https://transit.iastate.edu/) to check individual course equivalencies.

**Humanities (need 4 courses, 12 cr, including one Science/Humanities Bridge)**
- 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
- Science/Humanities Bridge Philosophy NWICC PHI 105

**Social Sciences (need 3 courses, 9cr)**
- 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

**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 webpage: [http://www.admissions.iastate.edu/equiv/iowa.php?type=transfer](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 2014-15 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.*

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