By this agreement, students who complete the Associate of Science in Liberal Arts and Sciences Math/Science degree at Adirondack Community College are guaranteed admission with full junior standing to the Bachelor of Science in Molecular Genetics degree program at SUNY Fredonia. By completing the AS degree and a minimum of 7/10 SUNY General Education requirements at ACC, such students will be able to complete their BS degree at SUNY Fredonia within 4 additional full-time semesters, taking a minimum of 15 credits per semester.

**GPA Criteria:** To be guaranteed admission, students must have a cumulative GPA of a 2.5 or higher.

**SUNY General Education Categories:** Students must complete a minimum of 7/10 SUNY Gen Ed requirements and should complete courses in all 10 of the SUNY General Education categories as follows:

1. **Basic Communication**
   - ENG 100
2. **Math**
   - MAT 131
3. **Foreign Language**
   - SUNY Approved Gen Ed
4. **Arts**
   - SUNY Approved Gen Ed
5. **Humanities**
   - SUNY Approved Gen Ed
6. **Social Science**
   - SUNY Approved Gen Ed (1)
7. **Natural Science**
   - CHM 111 and PHY 111 (2)
8. **American History**
   - SUNY Approved Gen Ed
9. **Western Civilization**
   - SUNY Approved Gen Ed
10. **World History**
    - SUNY Approved Gen Ed

---

1) The SUNY General Education requirements are referred to as the College Core Curriculum (CCC) at SUNY Fredonia. Students are required to complete 2 courses in the social sciences with two different prefixes.
2) Students must complete 2 courses in the natural sciences with two different prefixes. The molecular biology degree requires students to have chemistry (CHM 111) and physics (PHY 111) which will fulfill this requirement.
3) The CCC also includes a speaking intensive requirement. This will be fulfilled if students complete the basic communication requirement at ACC.
4) The CCC also includes an upper-level requirement which will be completed at Fredonia.
Course Equivalencies

Adirondack Community College | SUNY Fredonia
---|---
BIO 112 Botany | BIOL 141/142 Plant Diversity/lab
BIO 111 Zoology | BIOL 144/145 Animal Biology & Evolution/lab
BIO 113 Microbiology (1) | BIOL 338 Microbiology
BIO 212 Genetics (1) | BIOL 335 Genetics
CHM 111 General Chem I | CHEM 115/125 Gen Chem I/lab
CHM 112 General Chem II | CHEM 116/126 Gen Chem II/lab
CHM 204 Organic Chem II | CHEM 216/226 Organic Chem II/lab
PHY 111 Gen Phys I (2) | PHYS 121/123 College Phys I/lab
PHY 112 Gen Phys II (2) | PHYS 122/124 College Phys II/lab
MAT 131 Calculus I | MATH 122 Univ Calc I
MAT 132 Calculus II (3) | MATH 123 Univ Calc II

1) BIO 113 and 212 are recommended, but can be completed at Fredonia
2) PHY 111 and 112 are recommended, but can be completed at Fredonia
3) MAT 132 should be completed at Adirondack, but it may be done at Fredonia

**BIO 103 and CHM 103 will transfer in as general elective credit only.

Course work to be completed at Fredonia

SUNY Gen Ed 4/10 (3 + 1 social science)  | 12
Upper Division CCC  | 6
BIOL 241/242 Cell Bio/lab  | 4
BIOL 333/334 Biochemistry  | 4
BIOL 340 Cell & Subcellular Bio  | 3
BIOL 431 Senior Seminar  | 1
BIOL 435 Dev Biology  | 3
BIOL 460 Rec Gene Tech  | 3
9 hours of bio elective at 300-400 level  | 9

Students may also need to complete Microbiology, Genetics, the physics sequence and the second half of calculus if not completed at ACC.

STUDENTS MUST EARN A MINIMUM OF 45 CREDIT HOURS AT FREDONIA TO MEET THE RESIDENCY REQUIREMENT