

SUNY Fredonia-Adirondack Community College Articulation Agreement in Molecular Genetics

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:

Basic Communication	ENG 100
Math	MAT 131
Foreign Language	SUNY Approved Gen Ed
Arts	SUNY Approved Gen Ed
Humanities	SUNY Approved Gen Ed
Social Science	SUNY Approved Gen Ed (1)
Natural Science	CHM 111 and PHY 111 (2)
American History	SUNY Approved Gen Ed
Western Civilization	SUNY Approved Gen Ed
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

BIO 112 Botany

BIO 111 Zoology

BIO 113 Microbiology (1)

BIO 212 Genetics (1)

CHM 111 General Chem I

CHM 112 General Chem II

CHM 203 Organic Chem I

CHM 204 Organic Chem II

PHY 111 Gen Phys I (2)

PHY 112 Gen Phys II (2)

MAT 131 Calculus I

MAT 132 Calculus II (3)

SUNY Fredonia

BIOL 141/142 Plant Diversity/lab

BIOL 144/145 Animal Biology &
Evolution/lab

BIOL 338 Microbiology

BIOL 335 Genetics

CHEM 115/125 Gen Chem I/lab

CHEM 116/126 Gen Chem II/lab

CHEM 215/225 Organic Chem I/lab

CHEM 216/226 Organic Chem II/lab

PHYS 121/123 College Phys I/lab

PHYS 122/124 College Phys II/lab

MATH 122 Univ Calc I

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