

SUNY Fredonia-Jamestown Community College Articulation Agreement in Biochemistry

By this agreement, students who complete an Associate in Science degree at Jamestown Community College are guaranteed admission with full junior standing to the Bachelor of Science in Biochemistry degree program at SUNY Fredonia. By completing the AS degree (with specified coursework including 7/10 SUNY General Education Requirements at JCC), such students will be able to complete their BS degree at SUNY Fredonia within 4 additional full-time semesters, taking 15-18 credits per semester.

GPA Criterion: To be guaranteed admission, students must have a cumulative GPA, from all colleges attended, of 2.5 or higher.

College Core Curriculum: To graduate with a baccalaureate degree from SUNY Fredonia, students must meet the requirements of SUNY Fredonia's College Core Curriculum (CCC). The CCC includes the SUNY General Education Requirements plus additional coursework stipulated in the Fredonia catalog. To assist JCC students in preparing for their baccalaureate degree at SUNY Fredonia, the additional CCC requirements are summarized below:

- 1) Students are required to complete 2 courses, with 2 different prefixes, in the social sciences. Only one course may be from business administration, education, history, communication or speech.
- 2) Students are required to complete 2 courses, with two different prefixes, in the natural sciences. For the Biochemistry degree, this will be completed through the major.
- 3) The CCC includes a speaking intensive requirement. This will be fulfilled if students complete the SUNY General Education basic communication requirement at JCC.
- 4) The CCC includes a 6 credit upper-level requirement, which must be completed at Fredonia.

Suggested Coursework at JCC: Appendix A lists courses that students must take at JCC to guarantee the opportunity to earn the bachelor's degree in four semesters at SUNY Fredonia.

APPENDIX A – JCC/SUNY FREDONIA EQUIVALENT COURSES

Biochemistry

Jamestown CC Courses	SUNY Fredonia Equivalent Courses
ENG 1530 English Composition II (3 credit hours)	ENGL 100 College Composition (3 credit hours)
ENG 1540 Writing about Literature (3)	ENGL 099 Non-Major Transfer Elective (3)
Social Sciences - 2 courses in 2 different disciplines (6)	Social Sciences - 2 courses in 2 different disciplines (6)
BIO 1570 Principles of Biology I (4)	BIOL 133/134 Principles of Biology II & Lab (4) (core requirement)
BIO 1580 Principles of Biology II OR BIO 2670 Botany (4)	BIOL 131/132 Principles of Biology I & Lab (4) (core requirement)
CHE 1550 College Chemistry I (4)	CHEM 115/125 General Chemistry I & Lab (4) (core requirement)
CHE 1560 College Chemistry II (4)	CHEM 116/126 General Chemistry II & Lab (4) (core requirement)
CHE 2530 Organic Chemistry I (4)	CHEM 215/225 Organic Chemistry I & Lab (4) (core requirement)
CHE 2540 Organic Chemistry II (4)	CHEM 216/226 Organic Chemistry II & Lab (4) (core requirement)
Electives* 24	Electives* 24

*Notes regarding electives:

1. Students should first choose electives to fulfill remaining SUNY General Education Requirements (7/10 at JCC required).
2. Students are strongly encouraged to complete BIO 2560 Principles of Genetics at JCC.
3. Other recommended electives include courses listed for student's choice of one of the tracks below:

Track I: Chemical Emphasis

MAT 1710 and 1720 = MATH 122 & MATH 123 University Calculus I & II (track core requirement)

PHY 1710 = PHYS 230/232 University Physics I w/lab (track core requirement)

PHY 2710 = PHYS 231/233 University Physics II w/lab (track core requirement)

Track II: Biological Emphasis

BIO 2520 = BIOL 336 Mammalian Physiology (track core requirement)

BIO 2530 = BIOL 338 Microbiology (approved upper level elective)

Choose one sequence in mathematics (track core requirement)

MAT 1630 and 1640 = MATH 120/121 Survey of Calculus I & II

OR MAT 1710 and 1720 = MATH 122/123 University Calculus I & II

Choose One Sequence in Physics (track core requirement):

PHY 1710 and 2710 = PHYS 230/232 and PHYS 231/233 University Physics I & II w/lab

OR

PHY 1610 and 1620 = PHYS 121/123 and PHYS 122/124 College Physics I & II w/lab