

Fredonia – Jamestown Community College

Articulation Agreement in Mathematics

By this agreement, students who complete an associate's degree at Jamestown Community College (JCC) including CSC 1590 and MAT 1710, 1720, 2650, and 2670 are guaranteed admission with full junior standing to the Bachelor of Science (B.S.) Mathematics degree program at SUNY Fredonia (Fredonia). By completing the associate's degree with the above courses and also completing at least seven of the ten State University of New York (SUNY) General Education Requirements at JCC, such students should be able to complete their B.S. degree at Fredonia within four additional full-time semesters, taking a minimum of 15 credits per semester. Fredonia will accept up to 75 total JCC credits from courses listed in Table 1 and courses transferred as additional electives toward fulfillment of the requirements for the B.S. Mathematics degree.

GPA Criteria: To be guaranteed admission, students must have a minimum cumulative GPA, from all colleges attended, of 2.5.

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

- 1) Students are required to complete two courses, with two different prefixes, in the social sciences.
- 2) Students are required to complete two courses, with two different prefixes, in the natural sciences. The mathematics major at Fredonia requires, as one of those two courses, either CHEM 115/125 General Chemistry I Lecture/Lab (JCC students take the equivalent course CHE 1550 College Chemistry I) or PHYS 230/232 University Physics I Lecture/Lab (JCC students take the equivalent course PHY 1710 Analytical Physics I).
- 3) The CCC includes an oral communication requirement. This is covered by meeting the SUNY General Education basic communication requirement, which is fulfilled by ENG 1530 at JCC.

Mathematics majors are encouraged to take additional courses in computer science consistent with their career and educational goals.

Students may double major in Mathematics and Applied Mathematics, Mathematics and Mathematics Adolescence Education, or Mathematics and Mathematics-Middle Childhood by completing all requirements for both majors.

TABLE 1 – JCC/FREDONIA EQUIVALENT COURSES FOR B.S. MATHEMATICS

JCC Courses		Fredonia Courses	
CHE 1550 College Chemistry I (or PHY 1710 Analytical Physics I)	4 credits	CHEM 115/125 General Chemistry I Lecture/Lab (or PHYS 230/232 University Physics I Lecture/Lab)	4-5 credits
Natural Sciences Elective (second prefix)	3	Natural Sciences Elective (second prefix)	3
CSC 1590 Computer Programming	3	CSIT 121 Computer Science I (or MATH 125 Software for Mathematics)	3
ENG 1530 English Composition II		ENGL 101 English Comp	3
ENG 1540 Writing about Literature	3	ENGL 099 Non-Major English Elective	3
MAT 1540 Elementary Statistics	3	STAT 200 Statistical Methods	3
MAT 1710 Calculus & Analytic Geometry I	4	MATH 122 University Calculus I	4
MAT 1720 Calculus & Analytic Geometry II	4	MATH 123 University Calculus II	4
MAT 2650 Calculus & Analytic Geometry III	4	MATH 223 University Calculus III	4
MAT 2680 Ordinary Differential Equations	3	MATH 224 Differential Equations	3
MAT 2670 Linear Algebra	3	MATH 231 Linear Algebra	4
		MATH 210 Mathematical Structures and Proof	4
		MATH 323 Intermediate Real Analysis	3
		MATH 331 Abstract Algebra I	3
		MATH 332 Abstract Algebra II (or MATH 420 Advanced Calculus)	3
		STAT 350 Probability and Statistics	3
		MATH 405 Senior Seminar	1
		Two additional MATH or STAT courses numbered 311 or higher, as advised	6
Social Science Elective (SUNY Gen Ed course)	3	Social Science Elective (SUNY Gen Ed course)	3
Social Science Elective (second prefix, second SUNY Gen Ed category)	3	Social Science Elective (second prefix, second SUNY Gen Ed category)	3
SUNY Gen Ed Elective – American History	3	SUNY Gen Ed Elective – American History	3
SUNY Gen Ed Elective – Western Civilization	3	SUNY Gen Ed Elective – Western Civilization	3
SUNY Gen Ed Elective – Other World Civilizations	3	SUNY Gen Ed Elective – Other World Civilizations	3
SUNY Gen Ed Elective – The Arts	3	SUNY Gen Ed Elective – The Arts	3
SUNY Gen Ed Elective – Foreign Language	3	SUNY Gen Ed Elective – Foreign Language	3

Students must earn a B or better in MAT 2670 Linear Algebra and MAT 1670 Discrete Math to earn credit for the equivalent math courses at Fredonia.

Duration of the Agreement: This agreement will become effective fall 2014 and shall be reviewed every three years, or earlier if significant changes are made to either the JCC or the Fredonia curriculum.