

Fredonia – Jamestown Community College
Articulation Agreement in Geochemistry

By this agreement, students who complete an Associate in Science (AS) degree at Jamestown Community College (JCC) are guaranteed admission with full junior standing to the Bachelor of Science (BS) Geochemistry degree program at Fredonia (Fredonia). By completing the AS degree, a minimum of 54 credit hours of coursework listed in Tables 1-2, and at least seven of the ten SUNY General Education (GER) requirements at JCC, such students should be able to complete the BS Geochemistry degree at Fredonia within four additional full-time semesters, taking 15-18 credits per semester. Fredonia will accept up to 75 total JCC credits from courses listed in Tables 1-2 and courses transferred as additional electives toward fulfillment of the requirements for the BS Geochemistry degree.

GPA Criterion: 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.
- 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.

Table 1. BS Geochemistry Requirements

Jamestown Community College	Fredonia
GLG 1510 Physical Geology (4 credit hours)	GEO 165/169 Geology I/General Geology Lab (4 credit hours)
GLG 1520 Historical Geology (4)	GEO 210 Geology II (4)
	GEO 411 Mineralogy (4)
	GEO 421 Petrology (4)
	GEO 431 Geochemistry (4)
	GEO 459 Seminar in Geosciences or CHEM 495 Seminar: Advances in Chemistry (1)
	CHEM 496 Advances in Chemistry (1)
	Two GEO 3XX/4XX geology courses with labs (8)
CHE 1550 College Chemistry I (4)	CHEM 115 General Chemistry Lecture I /Lab (4)
CHE 1560 College Chemistry II (4)	CHEM 116 General Chemistry Lecture II /Lab (4)
CHE 2530 Organic Chemistry I (4)	CHEM 215 Organic Chemistry Lecture I /Lab (4)
CHE 2540 Organic Chemistry II (4)	CHEM 216 Organic Chemistry Lecture II /Lab (4)
	CHEM 315 Introduction to Physical Chemistry (3)
	CHEM 317 Analytical Chemistry, Quantitative (3)
	CHEM 318 Analytical Chemistry, Instrumental Analysis (3)
	CHEM 395 Introduction to Research (1)
PHY 1710 Analytical Physics I (4)	PHYS 230/232 University Physics I (4)
PHY 2710 Analytical Physics II (4)	PHYS 231/233 University Physics II (4)
MAT 1710 Calculus and Analytic Geometry I (4)	MATH 122 University Calculus I (4)
MAT 1720 Calculus and Analytic Geometry II (4)	MATH 123 University Calculus II (4)
	A course in scientific writing (CHEM 395 is recommended)
MAT 1540 Elementary Statistics (3-4) or CSC 1570 Programming Concepts and Applications or CSC 1590 Computer Programming	A course in statistics at the 200 level or higher, or a course in computer programming. Recommend MAT 1540 at JCC (3)

Table 2. CCC Requirements

Jamestown Community College	SUNY Fredonia
SUNY GER Math (Fredonia BS Geochemistry degree requirements will fulfill this requirement)	SUNY GER Math (Fredonia BS Geochemistry degree requirements will fulfill this requirement)
SUNY GER Natural Sciences (Fredonia BS Geochemistry degree requirements will fulfill this requirement)	SUNY GER Natural Sciences (Fredonia BS Geochemistry degree requirements will fulfill this requirement)
SUNY GER Social Sciences (3)	SUNY GER Social Sciences (3)
SUNY GER American History (3)	SUNY GER American History (3)
SUNY GER Western Civilization (3)	SUNY GER Western Civilization (3)
SUNY GER Other World Civilizations (3)	SUNY GER Other World Civilizations (3)
SUNY GER Humanities (ENG 1540 Writing About Literature will fulfill this requirement) (3)	SUNY GER Humanities (3)
SUNY GER Arts (3)	SUNY GER Arts (3)
SUNY GER Foreign Language (3)	SUNY GER Foreign Language (3)
SUNY GER Basic Communication (ENG 1530 College Composition I will fulfill this requirement) (3)	SUNY GER Basic Communication (3)
Fredonia Social Sciences second prefix requirement (3)	Fredonia Social Sciences second prefix requirement (3)
Fredonia Natural Sciences second prefix requirement (Fredonia BS Biochemistry degree requirements will fulfill this requirement)	Fredonia Natural Sciences second prefix requirement (Fredonia BS Biochemistry degree requirements will fulfill this requirement)

Duration of Agreement

This agreement will become effective in September 2014 and shall be reviewed every three years, or earlier, if significant changes are made in either the two-year or the four-year program.