

**Fredonia – Jamestown Community College**  
**Articulation Agreement in Computer Information Systems**

By this agreement, students who complete an Associate in Science (AS) degree in Computer Science at Jamestown Community College (JCC) are guaranteed admission with full junior standing to the Bachelor of Science (BS) Computer Information Systems degree program at SUNY Fredonia (Fredonia). By completing the AS Computer Science degree, a minimum of 54 credit hours of coursework listed in Table 1 and Table 2, and at least seven of the ten SUNY General Education (GER) requirements at JCC, such students should be able to complete the BS Computer Information Systems degree at Fredonia within four additional full-time semesters, taking 15-18 credits per semester. Fredonia will accept up to 75 total credits from courses listed in Tables 1-2 and courses transferred as additional electives toward fulfillment of the requirements for the BS Computer Information Systems 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 2 courses, with 2 different prefixes, in the social sciences. Students completing ECO 2620 Microeconomic Principles at JCC (equivalent to ECON 202 at Fredonia) will satisfy one social science.
- 2) Students are required to complete 2 courses, with two different prefixes, in the natural sciences. Students completing CSC 1510 Introduction to Computer Science at JCC will have fulfilled one of the natural science requirements at Fredonia. The second course may not be in Math or Computer Science.
- 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 Computer Information Systems Requirements**

<b>Jamestown Community College</b>	<b>Fredonia</b>
	<b>Computer Information Systems (CIS) Core (24 credit hours)</b>
CSC 1530 Web Publishing (3 credit hours)	CSIT 107 Web Programming I (3 credit hours)
	CSIT 151 Introduction to Information Systems (3)
CSC 1680 Introduction to Visual Basic or CSC 1590 Computer Programming (3-4)	CSIT 105 Visual Basic I or CSIT 121 Computer Science I (3)
CSC 1600 Data Structures (4)	CSIT 205 Visual Basic II or CSIT 221 Computer Science II
	CSIT 207 Web Programming II (3)
	CSIT 251 Information System Structures (3)
CSC 2670 Computer Organization (4)	CSIT 311 Assembly Language and Computer Organization will substitute for CSIT 312 Computer Structures (3)
CSC 2540 Introduction to Systems Analysis	CSIT 351 Business Systems Development (3)
	<b>Business and Mathematics Core (24 Credit Hours)</b>
MAT 1630 Calculus for Business and Social Science I or MAT 1710 Calculus & Analytic Geometry I (3-4)	MATH 108 Prize-Winning Mathematics or MATH 120 Survey of Calculus I (3)
BUS 1510 Principles of Financial Accounting (4)	ACCT 201 Principles of Financial Accounting (3)
ECO 2620 Microeconomic Principles (3)	ECON 202 Principles of Microeconomics (3)
MAT 1540 Elementary Statistics (3)	STAT 200 Statistical Methods I or ECON 200 Fundamentals of Statistics for Business Administration and Economics (3)
Two courses chosen from: (7-8)	Two courses chosen from: (6)
MAT 1670 Discrete Mathematics (requires grade of B or better)	CSIT 241 Discrete Mathematics for Computer Science I CSIT 242 Discrete Mathematics for Computer Science II CSIT 333 Mobile Applications for Development
MAT 1640 Calculus for Business and Social Science II or MAT 1720 Calculus & Analytic Geometry II	MATH 121 Survey of Calculus II
BUS 1520 Principles of Managerial Accounting	ACCT 202 Principles of Managerial Accounting STAT 300 Statistical Methods II or ECON 300 Statistical Analysis
Any BUS course	Any two BUAD courses or ECON 201, with at least one at 300 level or above and excluding courses on statistics

<p><b>Track Requirements</b> (3)</p> <p><b>Systems Development Track:</b></p> <p>CSC 2480 Advanced Networking/Computer Security</p> <p><b>Or Systems Management Track:</b></p> <p>CSC 2510 Introduction to Networks</p>	<p><b>Track Requirements (9 Credit Hours)</b></p> <p><b>Systems Development Track - Three courses chosen from:</b></p> <p>CSIT 201 Computer Security and Ethics</p> <p>CSIT 341 Data Structures</p> <p>CSIT 425 Software Engineering</p> <p>CSIT 455 Recreational and Object Databases</p> <p>CSIT 456 Information and Decision Support Systems</p> <p>CSIT 462 Computer Graphics</p> <p>CSIT 473 Data Warehousing and Mining</p> <p><b>Or Systems Management Track - Three courses chosen from:</b></p> <p>CSIT 203 Multimedia Systems</p> <p>CSIT 335 Data Communication and Networks I</p> <p>CSIT 425 Software Engineering</p> <p>CSIT 471 Information Systems Management</p> <p>CSIT 473 Data Warehousing and Mining</p> <p>CSIT 475 Electronic Commerce</p>
<p><b>Electives</b> (6)</p> <p><b>Two additional courses chosen from:</b></p> <p>CSC 2480 Advanced Networking/Computer Security</p> <p>MAT 1670 Discrete Mathematics (requires grade of B or better)</p> <p>CSC 2510 Introduction to Networks</p>	<p><b>Electives (6 credit hours, including at least one 300-400 level course)</b></p> <p><b>Two additional courses chosen from:</b></p> <p>CSIT 201 Computer Security and Ethics</p> <p>CSIT 241 Discrete Mathematics for Computer Science I</p> <p>CSIT 335 Data Communication and Networks I</p> <p>(Note: Fredonia offers numerous other approved electives for which there are no JCC equivalent courses)</p>

**Table 2. CCC Requirements**

<b>Jamestown Community College</b>	<b>Fredonia</b>
SUNY GER Math (Fredonia BS Computer Information Systems degree requirements will fulfill this requirement)	SUNY GER Math (Fredonia BS Computer Information Systems degree requirements will fulfill this requirement)
SUNY GER Natural Sciences (CSC 1510 (3) Introduction to Computer Science at JCC is one option to fulfill this requirement)	SUNY GER Natural Sciences (3)
SUNY GER Social Sciences (choose ECO 2620 Microeconomic Principles to fulfill this requirement)	SUNY GER Social Sciences (Fredonia BS Computer Information Systems degree requirement of ECON 202 Principles of Microeconomics will fulfill this requirement)
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 (fulfilled by ENG 1530 AS Computer Science 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 (fulfilled by ENG 1540 AS Computer Science 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 (3)	Fredonia Natural Sciences second prefix requirement (3)

**Students may double major in Computer Information Systems and Computer Science by completing all requirements for both majors. At least 15 additional credit hours are required in the second major. (Credit hours from courses within the list of courses of the second major cannot be used to satisfy requirements in the first major).**

**All students must complete a minimum of 45 credit hours at Fredonia and 120 overall. To earn the BS degree students must complete at least 66 credit hours of non-CSIT courses, fulfill all CCC requirements, obtain a minimum 2.0 cumulative gpa, and obtain a minimum 2.0 in the major gpa.**