AAS DEGREE – CODE #0581

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As more organizations install and employ computer networks, a need has developed for the "resident expert" to administer the system, install software, establish security, and train others. As a graduate of the computer information systems (CIS) program, you will be well positioned to serve that need with a foundation in programming, databases, and networking.

ADVANTAGES

- Students can complete the Cisco Certified Network Association curriculum and have a strong foundation to pursue professional certifications for CompTIA A+, Network+, and CCNA. The college has a Pearson Vue testing center.
- Our laboratories provide students with ample hands-on experience, giving them a considerable edge in the highly competitive computer and information technology job market.

DIRECT ENTRY INTO BACCALAUREATE DEGREE PROGRAMS

Alfred State computer information systems graduates may enter directly into either the cyber security BTech, information technology: applications software development BTech, information technology: network administration BTech, information technology: web development BTech, the interdisciplinary studies BTech, or technology management BBA degree program.

CONTINUING EDUCATION OPPORTUNITIES

To facilitate the transfer of graduates choosing to continue their education at the baccalaureate level, students are encouraged to make their intentions known to their academic adviser during their freshman year. Through the careful use of elective courses, students can realize excellent transfer credit.

Transfer into the information technology programs: network administration, web development, and applications software development will place them at junior status.

OCCUPATIONAL OPPORTUNITIES

- Network management
- Systems administration
- Computer technology
- Computer support
- Computer programming
- Web development
- Network administrators

EMPLOYMENT STATISTICS

Employment and continuing education rate of 100 percent – 50 percent are employed; 50 percent continued their education.

RELATED PROGRAMS

Computer Engineering Technology
Computer Science
Cyber Security
Information Technology: Applications Software Development
Information Technology: Network Administration
Information Technology: Web Development

ENTRANCE REQUIREMENTS/RECOMMENDATIONS

Required: Algebra, Geometry*
Recommended: Algebra 2
* Students who place into intermediate algebra will be required to take one additional mathematics course.

REQUIRED COURSE PREREQUISITES

If students do not place into MATH 1033 College Algebra, MATH 1084 Calculus I, MATH 1323 Quantitative Reasoning, 1034 College Algebra of Functions, 1054 Precalculus, or 2124 Statistical Methods & Analysis, then MATH 1014 Algebra Concepts is a required prerequisite for completion of the major.

OFFICE OF ACCESSIBILITY SERVICES

Students who believe they need a reasonable accommodation to properly participate in this program may contact Melanie Ryan in the Office of Accessibility Services. This office may be contacted by email at oas@alfredstate.edu or by phone at 607-587-4506. Please keep in mind that some accommodations may take time to implement, so students seeking accommodations are encouraged to contact OAS as early as possible.

REQUIRED EQUIPMENT

A tier 2 laptop computer is required for students entering the computer information systems program. Laptop specifications are available at www.alfredstate.edu/required-laptops.

COMPUTER INFORMATION SYSTEMS - AAS DEGREE

TYPICAL FOUR-SEMESTER PROGRAM

First

CISY	1023	Intro to Information Tech	3
CISY	1123	Intro to Programming for IT	3
		OR	
CISY	1113	Computer Programming I	3
COMP	1503	Writing Studies	3
GLST	2113	Global & Diverse Perspectives	3
XXXX	xxx3	Gen. Ed. Elective	3
			15

Second

CISY	2133	Computer Programming II	3
CISY	2143	Microcomputer Systems I	3
CISY	2153	Database Appl and Programng I	3
MATH	xxx3	College Algebra or Higher*	3
LITR	xxx3	Literature Elective	3
			15

Third

CISY	4033	Networking I	3
CISY	3223	Intro to Web Page Development	3
MATH	1123	Statistics I	3
		OR	
MATH	2124	Statistical Methods & Analysis	4
ACCT	1124	Financial Accounting	4
XXXX	xxx3	Professional Elective	3
			16-17

Fourth

CISY	4053	Linux/Unix Admin and Scripting	3
		OR	
CISY	5403	Database Concepts	3
SPCH	1083	Public Speaking	3
		OR	
SPCH	xxx3	Effective Speaking Equivalent	3
XXXX	xxx3	Gen. Ed. Natural Science Elective	3
XXXX	xxx3	Professional Elective	3
XXXX	xxx3	Professional Elective	3
			15

* If not required, take LAS elective to complete degree requirements of 3 credits, otherwise take free elective.

Adviser-approved mathematics courses do not include MATH 1004, MATH 1104, MATH 1014, or MATH 1143.

Professional electives may include CISY, business, and selected courses from math or engineering as approved by the adviser.

GRADUATION REQUIREMENTS

Must complete a minimum of 24 credit hours of required CISY courses and nine credit hours of professional electives approved by adviser with a minimum 2.0 cumulative index. Twenty credit hours of liberal arts courses, a minimum overall cumulative index of 2.0, along with other requirements as stated in the College Academic Regulations, must be met by candidates of the AAS degree. Must successfully complete a minimum of 61 credit hours of course work.