



BTECH DEGREE – CODE #1506

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The Bachelor of Technology degree in information technology: web development at Alfred State is designed to prepare you to enter the workforce as an IT professional with a special emphasis in web development and applications. web publishing, programming, and web server administration constitute the upper level of courses. Additionally, the web is integrated across the entire program, beginning with the very first course. Through core courses, you will also be given an essential foundation in programming, database administration, networking, and microcomputer systems. And a full-semester internship will give you the hands-on experience employers are seeking.

ADVANTAGES

Due to the solid foundation in other areas, graduates will find that job opportunities are wide and numerous.

CONTINUING EDUCATION OPPORTUNITIES

Articulation agreements have been established with many community colleges and additional agreements are in development. It is possible, with careful selection of courses, to transfer from a variety of associate degrees, including computer information systems, information technology, computer science, and others. Upon completion of the bachelor's degree, students will be prepared to pursue a graduate degree in information technology. The computer information systems degree (AAS) at Alfred State is especially well suited for transfer into this bachelor's degree at the junior level.

OCCUPATIONAL OPPORTUNITIES

Organizations of all types and sizes need computer professionals. The primary employment field includes web administrators and developers. Due to the solid foundation in other areas, graduates will not be limited to these areas; thus, the job opportunities are wide and numerous. They include database administrators, programmers, systems analysts, network support, project managers, user support, IT managers, technical sales, and technical support staff, to name just a few.

EMPLOYMENT STATISTICS

Employment and continuing education rate of 100 percent – 100 percent are employed.

RELATED PROGRAMS

[Computer Engineering Technology](#)
[Computer Information Systems](#)
[Computer Science](#)
[Cyber Security](#)
[Digital Media and Animation](#)
[Information Technology: Applications Software Development](#)
[Information Technology: Network Administration](#)

ENTRANCE REQUIREMENTS/RECOMMENDATIONS

Required: Algebra, Geometry, Algebra 2

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.

REQUIRED EQUIPMENT

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

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.

INFORMATION TECHNOLOGY: WEB DEVELOPMENT - BTECH DEGREE

TYPICAL EIGHT-SEMESTER PROGRAM

First

CISY	1023	Intro to Information Tech	3
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
LITR	xxx3	Literature Elective	3
MATH	xxx3	College Algebra or Higher*	3
CISY	2153	Database Appl and Programng I	3
			15

Third

CISY	4033	Networking I	3
CISY	3223	Intro to Web Page Development	3
MATH	2124	Statistical Methods & Analysis	4
MATH	1123	Statistics I	3
MATH	2163	Discrete Mathematics	3
ACCT	1124	Financial Accounting	4
XXXX	xxx3	Gen. Ed. - Natural Science	3
			16-17

Fourth

BUAD	3153	Fundamentals of Management	3
CISY	4723	Essentials of Info Security	3
SPCH	1083	Public Speaking	3
SPCH	xxx3	OR	
SPCH	xxx3	Effective Speaking Equivalent	3
CISY	xxx3	Concentration Elective	3
XXXX	xxx3	Gen. Ed. Elective	3
XXXX	xxx3	Open Elective	3
			18

Fifth

CISY	5303	Web Programming I	3
XXXX	xxx3	Gen. Ed. Elective	3
XXXX	xxx3	Open Elective	3
COMP	5703	Technical Writing II	3
CISY	xxx3	Concentration Elective	3
			15

Sixth

CISY	7203	Web Programming II	3
CISY	7003	Project Management	3
CISY	5403	Database Concepts	3
XXXX	xxx3	Professional Elective - Upper	3
XXXX	xxx3	Professional Elective - Upper	3
			15

Seventh

CISY	8403	Web Applications	3
CISY	8603	Seminar Critical Issues in IT	3
CISY	6103	Web Server Administration	3
			OR

CISY	6503	Object-Oriented Programming	3
			OR
XXXX	xxx3	Open Elective - Upper**	3
XXXX	xxx3	Open Elective - Upper**	3
XXXX	xxx3	Professional Elective***	3
			18

Eighth

CISY	8712	Info Technology Internship	12
			12

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

** Recommended: BUAD 5003 or BUAD 6113

*** Recommended: CISY 5233 - Human Computer Interaction or CISY 4053 Linux/Unix Admin & Scripting

GPA of 2.5 or higher required in major courses; GPA of 2.0 minimum overall; internship is student-initiated.

Be advised that a prior felony conviction may impede a student's ability to participate in an internship and complete the program.

GRADUATION REQUIREMENTS

- 124 credit hours
- 39 credit hours in major field required courses
- 24 credit hours in professional courses
- 18 credit hours in core concentration
- 30 credit hours in liberal arts/general education courses
- A 2.5 grade point average in the major is needed for the required internship
- Other requirements as stated in college academic regulations
- Seven general education areas are required, including three of the following five: art, language, other world civilizations, American history, or western civilization