



Revised Date
July 1, 2003

New Hampshire's Information Technology Pathway

High School Career Planning Form

Career Pathways in: Information Technology
Career Focus: Programming and Software Development

What is it? The design, development, implementation and maintenance of computer systems and software, requiring knowledge of computer operating systems, programming languages and software development.

Salary Range: See attached printout for salary and wage information

College and Employment Planning:

Job Titles	Certificate Programs	Associate Degrees	Bachelor Degrees
1. Systems Analyst 2. Test Specialist 3. Programmer Analyst 4. Operating Systems Specialist 5. Senior Level Programmer 6. Software/Application Support 7. Software Designer 8. Database Software Technician	<u>NHTI – Concord</u> Computer Information Systems Computer Technology / Programming <u>McIntosh College-Dover</u> Computer Systems Management Web & Graphic Design / Net+ (CompTIA) <u>NHCTC – Nashua</u> Computer Networking / Web Site Design Internet Server Administration Internet Developer <u>NHCTC – Claremont</u> CAD / Computer Networking & Web Site Design <u>NHCTC – Stratham/Pease</u> Multimedia Production / Office Technologies Web Development <u>Franklin Pierce College</u> Information Technology Graphic Design / Computer Science	<u>Computer Science</u> Franklin Pierce, Hesser College, McIntosh College <u>Information Science and Systems</u> Daniel Webster College, NHCTC at Berlin, Laconia, Manchester, Pease, Nashua, Claremont, Hesser and McIntosh <u>Data Processing Tech/Technician</u> NHCTC at Nashua, Claremont <u>Computer Programming</u> Hesser College <u>Computer & Information Sciences</u> NHCTC Concord, Claremont, Nashua <u>Computer Systems Analysis</u> McIntosh College	<u>Computer Science</u> Daniel Webster, Dartmouth, Franklin Pierce, Keene State, Plymouth State, UNH, Saint Anselm, Rivier College <u>Information Science and Systems</u> Daniel Webster <u>Computer Programming</u> Daniel Webster, Franklin Pierce <u>Computer and Information Science</u> New Hampshire College Plymouth State <u>Management and Information Technology</u> Daniel Webster College

NOTE: The level to which an advanced degree is required will vary from one employer to the next and one position to the next.

High School Course Planning:

	9 th Grade	10 th Grade	11 th Grade	12 th Grade	
English	English 9 with emphasis on Business/Technical Writing	English 10	English 11	CP Composition and Speech	<ul style="list-style-type: none"> • Informational Interview with a local employer • Industry Tour • Community Service Project with Non Profit Agency • School-Based Enterprise such as designing, developing and maintaining a school-based or community-based website
Math	Algebra I	Geometry	Algebra II	Applied Logic	
Social Studies	World History	United States History I with unit on Technology and Society	United States History II	Human Relations & the Organization	
Science	Introduction to Science	Biology	General Chemistry	Physics	
Foreign Language	Foreign Language I	Foreign Language II	Foreign Language III	Advanced Foreign Language	
Technical Core	IT & ME IT & ME Works	Programming Logic Database Design & Management	Programming I Web Programming I	Java Script Intro to C++	
Elective Core	Business & Personal Law	Intro to Business or Business Management	Principles of Marketing or Consumer Behavior	Public Speaking	

NOTE: Check with your guidance counselor to identify the comparable courses offered at your high school or vocational center. Sample course descriptions are listed on the back.