



New Hampshire's Information Technology Pathway

Revised Date
July 1, 2003

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

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	School-to-Career Connections
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.