



Milford High School and Nashua Community College Associate in Science in Computer Science: Networking

Career Pathway Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Pathway Plan of Study can serve as a guide. Courses listed within this plan are only recommended coursework and should be individualized to meet your educational and career goals

Bold – Prerequisite for College Success
Black – High School Requirement

Bold, Italics Underlined
Transcripted Dual Enrollment Credit

	Grade	English/ Language Arts	Math	Science	Social Studies /Sciences	Other Required Courses (R) Recommended Electives (E)	Career and Technical Courses and/or Degree Major Courses for Computer Networking	SAMPLE Occupations Relating to This Pathway
S E C O N D A R Y	9	English 9	<u>Begin Sequence:</u> Algebra I -or- Geometry (H)	<u>Begin Sequence:</u> Physical Science -or- Biology (H)	American Studies 9	Wellness I (R) Fine Art Requirement (R) World Language (E)	Computer Studies Adobe Photoshop Applied Business Applications Introduction to Pre-Engineering	<ul style="list-style-type: none"> ► Computer and Information Scientists ► Computer and Information Systems Managers ► Computer Hardware Engineers ► Computer Operators ► Computer Programmers ► Computer Security Specialists ► Computer Software Engineers ► Computer Support Specialists ► Computer Systems Analysts ► Computer Systems Engineers/Architects ► Database Administrators ► Graphic Designers ► Multi-Media Artists and Animators ► Network and Computer Systems Administrators ► Network Designers ► Web Developers
	10	English 10	<u>Select two:</u> Algebra I Geometry Algebra II Trigonometry	Biology -or- Chemistry (H)	American Studies 10	World Language (E)	Web Design Graphic Design <u>Programming Fundamentals</u>	
	11	English 11	Algebra II <u>Probability & Statistics</u> Trigonometry Pre-Calculus	Chemistry (or lab science elective) -or- AP Chemistry Physics (H)	Modern World Studies	Wellness II (R) Creative Writing (E) SAT Prep Math/Writing (E) Essay Writing (E)	<u>Adobe Photoshop</u> <u>Web Design</u> <u>Computer Networking – Nashua South</u> <u>Graphic Design</u> <u>Java Programming (H)</u> Data Structures & Algorithms (H/AP) <u>Engineering Design</u> <u>Graphic Design</u> <u>Programming Fundamentals</u>	
P O S T S E C O N D A R Y	12	English 12	Trigonometry Pre-Calculus Calculus AP Calculus	Physics -or- AP Physics		<u>College Composition</u>	<u>Advanced Engineering Design</u> <u>Applied Business Applications</u> <u>Computer Networking – Nashua South (year 2)</u> Career Focus Internship (E) <u>Computer Integrated Manufacturing</u>	<p>Notes: *MTHN106, MTHN110, or MTHN115 is required ** includes: CPTN, EETN, TELN, EMTN, BCPN *** Science must be Four Credits Acuplacer Score >=76 in Reading >=5 on Write Placer >=80 in Math SAT 550 Critical Reading 520 Math 8 Writing</p> <p><u>Running Start College Credit Available for those classes in Bold, Italics & Underlined</u></p>
	13	College Composition GROUP A (ENGLISH ELECTIVE)	GROUP E (MATH ELECTIVE)	GROUP B (SCIENCE ELECTIVE)		General Education : Group D Elective – 3 credit	PC Assembly/Operating Systems Telecommunications Media Programming in Visual BASIC Freshman Seminar Networking Basics 3 credit Major Electives **	
	14				GROUP C (SOCIAL SCIENCE ELECTIVE)	General Education Group F or G Elective in Major **	Introduction to UNIX Administering Windows to Servers Routing Fundamentals Database Design and Management OR Database Management Access Advanced Windows Servers Intermediate Networking Computer Science Internship OR Capstone Project 3 credit Major Elective	

