

PROGRAM OF STUDY: Networking



This Program of Study may serve as a graduation guide for the next four plus years, along with other career planning and educational materials. Courses listed in this model may include recommended coursework and should be individualized to students' educational and career goals. Each graduation plan needs to meet minimum high school graduation requirements. Dual Enrollment courses can be high school academic and/or career technical education courses.

SECONDARY:					POSTSECONDARY:		
COURSE/ GRADE	NINTH	TENTH	ELEVENTH	TWELFTH	TCC	DIPLOMA OR AAS	BACHELOR OF SCIENCE
ENGLISH	9 th grade Lit/ Composition	10 th grade Lit/ Composition	American Lit/ Composition	World Lit/ Composition / British Lit	Entrance/Exit Point NT41 Network Technician Certificate Find the campus for the TCC options	Entrance/Exit Point NS13 Networking Specialist Degree Find the campus for the Diploma, Degree options	Entrance/Exit Point The University System of Georgia offers students' higher education options at 30 institutions throughout the state, providing a wide range of academic programming including certificates and associate, baccalaureate, masters, doctoral and professional degrees. https://apps.ds.usg.edu/ords/?p=118:1:0
MATHEMATICS	Coordinate Algebra / Algebra I	Analytic Geometry / Geometry	Advanced Algebra / Algebra II	Pre-calculus			
SCIENCE	Physical Science	Biology	Chemistry	Physics			
SOCIAL STUDIES	World History	Psychology	US History	Government (½ unit) Economics (½ unit)			
PATHWAY COMPLETER	Introduction to Digital Technology	Networking Fundamentals	Networking Systems and Support	Another course in focus area, Work-Based Learning, or Youth Apprenticeship			
Industry Recognized Credential (Pathway Completer)		Visit the End of Pathway Assessment Page (see note below)					
Required/ Selective Electives	Health & Personal Fitness (can be taken in grades 9-12)	Financial Literacy	Introduction to Business and Technology	AP Computer Science Principles			
	Modern Language/Latin 2 units required for admissions to Georgia University System Colleges/Universities For a listing of Modern Language/Latin courses offered at your high school, please contact your advisor, counselor, or curriculum handbook.		Other Electives For a listing of other elective courses offered at your high school, please check with your advisor, counselor, or curriculum handbook.				

NOTE: Students have many options to **ENTER** and **EXIT** from their academic studies into the workforce. When a student graduates from high school, they are eligible to choose one of many **ENTRANCE POINT** options: **1.** Enroll in either a 2 or 4 year post-secondary program; **2.** Enroll in an apprenticeship program or the military; or **3.** Enter the workforce using technical skills learned in high school. When a student finishes a 2- or 4-year degree program, they may choose to **EXIT** and **1.** Enroll in an apprenticeship program or the military; **2.** Enroll in a professional university degree program; or **3.** Enter the workforce using technical skills learned.

Networking Career Pathway Completers - Industry Credentialing for High School Students
Upon completion of sequenced courses in the Networking Pathway, students are eligible to complete the Industry-Recognized student credential for fulfillment of the End of Pathway Assessment. Secondary students completing the Networking pathway will be able to sit for the National Industry Credentialed assessment offered on-line from NOCTI, MTA, and OKCareerTech. Once mastery is reached, students will receive recognition for completion and use this credential in conjunction with their job or continuing training. For specific assessment information, refer to: <http://bit.ly/GAInfoTech>.

Sample In Demand Careers in Georgia

Occupation Specialties	Level of Education Needed	Georgia Average Salary	Annual Average Openings in Georgia	2014 – 2024 Employment Outlook
Computer Network Architects	Bachelor's Degree	\$108,962	408	In Demand, High Skill, High Wage
Computer Network Support Specialists	Bachelor's Degree	\$67,551	635	In Demand, High Skill
Database Administrators	Bachelor's Degree	\$85,025	187	In Demand, High Skill
Database Architects	Bachelor's Degree	\$85,978	1,931	In Demand, High Skill

[Data link here.](#)

Go to [GAFutures at www.gafutures.org](http://www.gafutures.org) for more information about your education and career planning, including valuable financial information (grants and scholarships including HOPE Program, grants and loans, FAFSA, and CSS forms).

Career Enhancement Opportunities	Career-Related Education Activities <ul style="list-style-type: none"> Career Awareness Career Exploration Instructional Related Connecting <ul style="list-style-type: none"> Work-Based Learning Employability Skill Dev. Cooperative Education Internship Youth Apprenticeship Clinicals 	Postsecondary Options: <ul style="list-style-type: none"> 4-Year Universities/Colleges 2-Year Colleges Technical Colleges State Registered Apprenticeships Special Purpose Schools On-the-Job Training Military 	Earning Postsecondary Credits While in High School <ul style="list-style-type: none"> Dual Enrollment Program Earn postsecondary credit while in high school You can complete <ul style="list-style-type: none"> Industry Credential Technical Certificate of Credit (TCC) Associates of Applied Science Degree Bachelor's Degree Who can help? <ul style="list-style-type: none"> Parents School Counselor Advisor
	Postsecondary Transition <ul style="list-style-type: none"> University System of Georgia Institutions: Admissions Testing <ul style="list-style-type: none"> ACT or SAT For More Information: <ul style="list-style-type: none"> Contact the institution of your choice OR Technical College System of Georgia <ul style="list-style-type: none"> Placement Exam United States Military <ul style="list-style-type: none"> ASVAB Assessment Use BRIDGE Law platform to inform decisions on postsecondary opportunities Dual Enrollment <ul style="list-style-type: none"> Earning high school course credits while taking college courses 		
Related Pathway Occupations		Other Related Occupations	
<ul style="list-style-type: none"> Computer Network Architects Computer Network Support Specialists Data Warehousing Specialists Network & Computer System Administrators 		<ul style="list-style-type: none"> Graphics Designers Computer Programmers Database Administrators Database Architects <p style="text-align: right;">*ONET Online</p>	

Networking Pathway Description

Computer networkers install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet system or a segment of a network system. These workers maintain network hardware and software and monitor the network to ensure network availability to all system users. In addition, these workers perform necessary maintenance to support network availability. Some may supervise other network support and client server specialists and plan, coordinate, and implement network security measures.

System administrators are responsible for maintaining network efficiency. These workers ensure that the design of an organization's computer system allows all the components, including computers, the network, and software to work properly together. Furthermore, these workers monitor and adjust the performance of existing networks and continually survey the current computer site to determine future network needs. Network Administrators also troubleshoot problems reported by users and by automated network monitoring systems and make recommendations for future system upgrades.

Training requirements for computer networking positions vary, but many employers prefer to hire applicants with some formal college education. A bachelor's degree in computer science or information systems is a prerequisite for some jobs; other jobs, however, may require only a computer-related associate degree.

Employment of network and computer system administrators is expected to increase by 20-28 percent from 2014 to 2024, which is much faster than the average for all occupations.