

Program of Study: Web and Digital Design



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 dual enrollment courses.

Secondary: Web and Digital Design					Postsecondary		
Course/Grade	Ninth	Tenth	Eleventh	Twelfth	TCC	Degree	Bachelor of Science
English	9 th grade Lit/ Composition	10 th grade Lit/ Composition	American Lit/ Composition	World Lit/ Composition	Entrance or Exit Point	IS53 Web Site Design Development Degree - Complete Academic courses - CIST 1001 Comp. Concepts - CIST 1305 Program Design and Development - CIST 1210 Introduction to Oracle Databases or - CIST 1220 – Structured Query Language - CIST 1510 Web Development I - CIST 1520 Scripting Technologies - CIST 1530 Web Graphics I - CIST 1601 Information Security Fundamentals - CIST 2510 Web Technologies - Web Graphics II OR Web Animation II - CIST 2550 Web Development II - CIST 2921 IT Analysis, Design, and Project Management - Programming Language Elective – 4 credits - CIST 2950 Web Systems Project or CIST 2991 CIST Internship	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.usg.edu/ords/f?p=118:1:0:::~
Mathematics	Coordinate Algebra	Analytic Geometry	Advanced Algebra/ Algebra II	Pre-calculus			
Science	Physical Science	Biology	Chemistry	Physics			
Social Studies	Psychology	World History	US History	Government (½ unit) Economics (½ unit)			
Pathway Completer	Introduction to Digital Technology	Digital Design	Web Design	Work-Based Learning, Youth Apprenticeship, or Capstone Project			
Industry Recognized Credential (Pathway Completer)		Visit the End of Pathway Assessment Page (see note below)					
Required/ Selective Electives	Health & Personal Fitness (<i>can be taken in grades 9-12</i>)	Fine Arts course	Introduction to Graphics and Design	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.

Web and Digital Design Career Pathway Completers - Industry Credentialing for High School Students

Upon completion of sequenced courses in the Web and Digital Design Career Pathway courses, students are eligible to complete Industry-Recognized student credential for fulfillment of End of Pathway Assessment. Secondary students completing the Web and Digital Design pathway courses will be able to sit for National Industry Credentialed assessment offered on-line from Adobe, CIW, and W3Schools. 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 High Demand Careers in Georgia

Occupation Specialties	Level of Education Needed	Georgia Average Salary	Annual Average Openings in Georgia	2014 – 2024 Employment Outlook
Web Developers	Bachelor's Degree	\$79,306	141	High Demand, High Skill
Web Administrators	Bachelor's Degree	\$84,484	93	High Demand, High Skill
Computer System Analysts	Associate's Degree	\$86,748	658	High Demand, High Skill

GDOL LaborMarket Explorer

Go to GAFutures at 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	<p style="text-align: center;">Career-Related Education Activities</p> <ul style="list-style-type: none"> <input type="checkbox"/> Career Awareness <input type="checkbox"/> Career Exploration <input type="checkbox"/> Instructional Related <input type="checkbox"/> Connecting <input type="checkbox"/> Work-Based Learning <ul style="list-style-type: none"> • Employability Skill Dev. • Cooperative Education • Internship • Youth Apprenticeship • Clinicals 	<p style="text-align: center;">Postsecondary Options:</p> <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 	<p style="text-align: center;">Earning Postsecondary Credits While in High School</p> <p>A vital way to get ahead and realize you can pass college courses is by earning postsecondary credits as a high school student. Georgia offers a dual credit program titled Dual Enrollment. You need to talk with your parents, school counselor, or advisor about the proper courses to take each year in high school and dual credit.</p> <p>Students completing the course work in this Plan, will have earned/completed Dual Enrollment courses, Industry Credential, and Technical Certificate of Credit (TCC) and/or Associates of Applied Science Degree.</p>
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Postsecondary Transition

- Students who will continue their education in a Program of Study at one of the University System of Georgia institutions should prepare to take the ACT or SAT for admissions. Tests for admissions may vary from institution to institution. Contact the selected institution for specific testing information. Additional admissions information can be found at Staying On Course. (https://www.usg.edu/assets/student_affairs/documents/Staying_on_Course.pdf)
- Students who will continue their education in a Program of Study at one of the Technical College System of Georgia institutions should prepare to complete a placement exam.
- Students who will continue their education and training in the US Military should take the ASVAB assessment.
- Students should utilize electronic college and career databases to select the most appropriate postsecondary opportunities to match their selected career field, including registered apprenticeships.
- Georgia's dual-credit programs have been combined into one program entitled Dual Enrollment, in which high school students may earn their high school course credits while taking college courses.

Related Pathway Occupations	Other Related Occupations
<ul style="list-style-type: none"> <li style="margin-right: 10px;">• Web Developers <li style="margin-right: 10px;">• Computer & Information Research Scientists <li style="margin-right: 10px;">• Computer System Analysts <li style="margin-right: 10px;">• Computer Programmers <li style="margin-right: 10px;">• Software Developers <li style="margin-right: 10px;">• Computer Systems Engineers/Architects <p><small>(national data list this occupation as new and emerging. Design and develop solutions to complex applications problems. (ONET))</small></p>	<ul style="list-style-type: none"> <li style="margin-right: 10px;">• Web Administrators <li style="margin-right: 10px;">• Computer & Information Systems Managers <li style="margin-right: 10px;">• Computer Network Architects <li style="margin-right: 10px;">• Computer Operators <p style="text-align: right;">*ONET Online</p>

Web and Digital Design Pathway Description

Information is valuable only when it is understood and utilized. Workers in digital media design bring ideas to life through technology, whether creating a web site, a training video or designing the latest computer game or mobile application. Careers in web and digital communications involve creating, designing and producing interactive multimedia products and services, including the development of digitally-generated or computer-enhanced media used in business, training, entertainment, communications and marketing. Sample interactive media occupations include web designer, webmaster, 3D animator, virtual reality specialist, multimedia producer and graphic artist.

Organizations of all types and sizes use digital media to communicate with existing and potential customers, to track transactions and to collaborate with colleagues. Interactive media experts can find employment opportunities in organizations of all sizes and types due to the rate of technology change in business and reliance on mobile technology. Job prospects in the motion picture and video industry are excellent for multimedia artists and animators, film and video editors and others skilled in digital filming and computer-generated imaging. Graphic designers with website design and animation experience will have good job opportunities. A bachelor's degree is required for most entry-level positions. However, an associate's degree may be sufficient for technical positions.

Most primary occupations in the field will have numerous job openings in the coming years. The web is fast becoming a way of life for most of the world. Therefore, the industry is continually looking for bright, well-educated individuals to develop faster and more efficient processes for creating and delivering information.