



Career Cluster: Arts A/V, Technology, & Communications

Career Pathway: Web & Digital Communications

HIGH SCHOOL

EXPLORER COURSES: Choose one or more of the following courses to see if this would be a career you would enjoy.

Computer Essentials (1 semester)

CONCENTRATOR COURSES: Completed after an Explorer course. Helps you discover what area of the field you would like to specialize in.

Web Page Design (1 semester)

Computer Graphics (1 year)

Animation (1 semester)

Computer Programming (1 year)

COMPLETER COURSES: Must have completed an Explorer and a Concentrator course before taking this course.

Media Technology Internship

Web & Digital Project Management

PATHWAY SEQUENCE: Suggested order of courses.

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Computer Essentials	Computer Graphics	Computer Programming	IT Systems (WSUTech Block)
Web Design	Animation		

SUPPORTING COURSES: Courses outside of the pathway that would be very helpful in your career.

Graphic Design

Intro to Art

STUDENT ORGANIZATION OPPORTUNITIES

BPA


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CERTIFICATION & COLLEGE CREDIT OPPORTUNITIES

IT Systems (WSUTech Block)

HIGH SCHOOL TO POSTSECONDARY EDUCATION & TRAINING

There are several options for education and training beyond high school, depending on your career goals.

	1 - Year Certificate Avg. Salary: \$	2 - Year Assoc. or Tech. Degree Avg. Salary: \$60,000	4 - Year Bachelor's Degree Avg. Salary: \$69,900
	<ul style="list-style-type: none"> ➤ N/A Local Institutions ➤ Butler: Digital Media Specialist, Web Development, Interactive, Digital, and 3D Technology Certificates ➤ Cowley: Software, Security, & Development, Numerical Control Programming 	<ul style="list-style-type: none"> ➤ Web Developer Local Institutions ➤ WSUTech: Digital Marketing, Information Technology Systems, Administrative Office Technologies ➤ Butler: Digital Media, Web Development, Interactive, Digital, and 3D Technology, Software Development, Business Technology ➤ Cowley: Graphic Design, Software, Security, & Development Degree Pathway 	<ul style="list-style-type: none"> ➤ Graphic Designer ➤ Multimedia Artist & Animator ➤ Software Developer ➤ Web Administrator ➤ Software Engineer Local Institutions ➤ WSU: Graphic Design, Marketing, Applied Computing, Computer Science ➤ Newman: Marketing, Business-Management Information Systems ➤ Friends: Marketing, Computer Science & Information Systems



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Course Descriptions

Computer Essentials (5735) – 1 semester

Students will acquire knowledge of and experience in the proper and efficient use of software commonly used in business and industry. This course explores a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs, and they may also cover the use of electronic mail and desktop publishing.

Web Page Design (6743) – 1 semester

Students are instructed how to design web sites by introducing them to and refining their knowledge of site planning, page layout, graphic design, and the use of markup languages—such as Extensible Hypertext Markup, JavaScript, Dynamic HTML, and Document Object Model—to develop and maintain a web page

Computer Graphics (5741/5742) – 1 year

Students will explore the capability of the computer to produce visual imagery and to apply graphic techniques to various fields, such as advertising, TV/video, and architecture. Typical course topics include modeling, simulation, animation, and image retouching.

Animation (5793) – 1 semester

Prerequisite: Computer Graphics. Animation is a technical level course in the Web & Digital Communications pathway. This course emphasizes the development of digitally generated and/or computer enhanced media, including 2D and 3D spatial elements, graphic representation, management of movement, environmental representation (Including texture, color, value, form, line, and space), recording media, and distribution tools and methodologies..

Computer Programming (5747/5748) – 1 year

This course provides students with the knowledge and skills necessary to construct computer programs in one or more languages. Initially, students learn to structure, create, document, and debug computer programs, and as they progress, more emphasis is placed on design, style, clarity, and efficiency.

IT Systems (WSUTech Block)

This program prepares students to enter the rapidly advancing field of computing technologies to earn an average of \$30 an hour. The coursework provides the foundational knowledge and skills necessary to complete CompTIA (Computing Technology Industry Association) Certifications. Careers that use CompTIA certifications include: Information security, Network and cloud technologies, Hardware, services and infrastructure, IT management and strategy, Web and mobile, Software development, Training, and Office productivity.