

# Information Technology AAS

## Web Design and Development – Concentration

Career & Technical Division

### Program Description:

Students who receive this A.A.S. in Information Technology (IT) concentration will have a broad technical knowledge and a specific web skill set used in the Web Design and Development areas. The curriculum is designed to maintain maximum flexibility in order to compete in the changing workforce.

Students who graduate with the Web Design and Development concentration can expect to find employment as a web designer, web authoring, web developer, social media manager, database support technician, etc..

Web Designer and Developers design and create websites. They are responsible for the look of the website. They are also responsible for the website's technical aspects, such as its performance and capacity, which are measures of a website's speed and how much traffic the website can handle. In addition, web developers may create content for the website.

Students may choose an area of emphasis or specialty: Design or Development. Students who select a Design emphasis (*Front-end website developer*) are responsible for the visual elements; they create the site's layout and integrate graphics. Students who select a Development emphasis (*Back-end website developer*) are responsible for the overall technical construction of the website. They create the basic framework of the website and ensure that it works as expected.

### Career Outlook:

Organizations are increasingly using the Web for a diverse set of business purposes. Websites are used by organizations for marketing, sales, communications, public relations, and training, just to name a few. Careers in Web development involve the design and maintenance of such websites. Web developers typically work with a client to determine the needs of the organization. A website design will be created, tested and documented. Some positions in the Web development require creativity. The majority of positions are found at companies that specialize in Web development and multimedia creations, but some large corporations hire Web developers for in-house design. The array of organizations seeking Web developers is extremely diverse creating boundless employment opportunities.

### Employment Opportunities:

- Web Designer
- Web Developer
- Multimedia Specialist
- Social Media Manager
- Programmer
- Help Desk Technician
- Software Applications
- IT Sales Professional

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### Salary Forecast:

For the most current salary information please refer to the Bureau of Labor Statistics "Occupational Outlook Handbook" found at [www.bls.gov/ooh/](http://www.bls.gov/ooh/).

### Program Admission Requirements:

The college adheres to an open admission policy which means applicants with a high school diploma or a GED are eligible for admission. Applicants with neither a high school diploma nor a GED may be admitted on a conditional basis.

### Contact Information:

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*Our mission is to prepare students for careers, civic responsibility and life-long learning.*

**Information Technology Major Code – CI20 • Web Design and Development Concentration Code – CI21**

<b>Name:</b>			<b>ID Number 942-</b>	
<b>CAPS SCORES:</b>	<b>MATH:</b>	<b>ENGLISH:</b>	<b>READ:</b>	<b>DOE:</b>
<b>COL 101 Faculty:</b>				
<b>Educational Counselor:</b>				
<b>Faculty Advisor:</b>				

**COURSE REQUIRED**

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
ENL 111	Written Communication <sup>1</sup>		3				
IT 101/102	Fundamentals of Computers <sup>2</sup> (EDGE)		3				
IT 107	Fundamentals of the Internet		3				
IT 110	Computer Skills For Designers		3				
	Approved Math Elective <sup>3</sup>		3				
IT 115	Introduction to Programming <sup>4</sup>		3				
IT 212	Publishing on the Internet <sup>5,6</sup>	S	3				
IT 270	Computer Essentials & Applications <sup>5</sup>		4				
DSGN 160 or IT 277	Digital Photography (Web Design) or Management Information Systems (Web Dev)		3				
	Approved COM Elective <sup>1,7</sup>		3				
DSGN 220 or IT 215	Typography <sup>8,13</sup> (Web Design) or Advanced Programming <sup>9</sup> (Web Dev)	F	3				
DSGN 230 or GST 160	New Media <sup>10</sup> (Web Design) or Geographic Information Sys Concept (Web Dev)		3				
ENL 231	Business and Technical Report Writing <sup>11</sup>		3				
IT 213	Web Graphics/Design <sup>6,12</sup>	F	3				
IT 250	Applications to Databases <sup>4,13</sup>	F	3				
DSGN 260 or GST 263	Interactive Design <sup>14</sup> (Web Design) or GIS Programming (Web Dev)		3				
DSGN 270 or IT 262	Brand Identity Design <sup>15</sup> (Web Design) or Mobile App Development <sup>16</sup> (Web Dev)		3				
IT 242	Emerging Web Technologies <sup>6,17</sup>	S	3				
IT 252	Advanced Web Publishing <sup>6,17</sup>	S	3				
IT 299	Information Technology Internship/Coop <sup>18</sup>		3				

**DEVELOPMENTAL COURSES REQUIRED**

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
	Hours Required for Graduation: 61						

**Earn A Degree Graduate Early (EDGE):**

This program provides students the opportunity to receive credit for their high school EDGE courses.

<sup>1</sup> COM 112, COM 125, COM 231, ENL 111, and ENL 231 have a prerequisite placement in 100-level reading.

<sup>2</sup> IT 101 or IT 102 will meet the Fundamentals of Computers requirement.

<sup>3</sup> Choose from any 100-level or above Math class.

<sup>4</sup> IT 115, IT 224, IT 250, and IT 270 have a prerequisite of IT 101 or IT 102.

<sup>5</sup> IT 212 has a prerequisite of IT 107.

<sup>6</sup> IT 212, IT 242, IT 252, and IT 271 are offered spring semester only.

<sup>7</sup> Choose from the following: COM 112 Oral Communication or COM 125 Interpersonal Communication.

<sup>8</sup> DSGN 220 has a prerequisite of DSGN 150, DSGN 210, IT 110 and IT 213. Prerequisites are waived for Web Design and Development Majors per the permission of the program coordinator.

<sup>9</sup> IT 215 has a prerequisite of IT 115.

<sup>10</sup> DSGN 230 has a prerequisite of DSGN 150, DSGN 210, DSGN 220, IT 110 and IT 213.

<sup>11</sup> ENL 231 has a prerequisite of placement in 100-level English, placement in 100-level reading.

<sup>12</sup> IT 213 has a prerequisite of DSGN 150 and IT 110.

<sup>13</sup> DSGN 220, IT 213, IT 250 are offered in the fall semester only.

<sup>14</sup> DSGN 260 has a prerequisite of DSGN 120, DSGN 150, DSGN 210, IT 110 and IT 213.

<sup>15</sup> DSGN 270 has a prerequisite of DSGN 120, DSGN 150, DSGN 220, IT 110 and IT 213.

<sup>16</sup> IT 262 has a prerequisite of IT 215.

<sup>17</sup> IT 242, and IT 252 have a prerequisite of IT 212.

<sup>18</sup> Permission of Program Coordinator/Dean is required in order to enroll in IT 299.

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