

## IT WEB SOFTWARE DEVELOPMENT

### About the IT Web Software Developer Program

Gain a solid foundation in software application design and programming. You'll learn how to design and write programs using various programming languages as well as basic computer hardware and networking principles.

### PROGRAM OUTLINE

COURSE #	COURSE TITLE	CREDITS
1010210600	Orientation	1.00
1015212000	Introduction to Programming	3.00
10152120C01	Develop a basic Visual Basic Program	1.50
10152120C02	Develop a basic JAVA Program	1.50
1015211500	Database Fundamentals	3.00
10152115C01	Demonstrate the ability to design and implement efficient relational database structures	1.00
10152115C02	Apply security features to database	0.50
10152115C03	Create commonly used documents as they relate to relational databases	1.00
10152115C04	Develop databases requirements for an information system	0.25
10152115C05	Demonstrate administrator's role and responsibilities in a database	0.25
1015417700	Web Programming Fundamentals	3.00
10154177C01	Develop basic static web page	0.75
10154177C02	Link web pages together to create a website	0.75
10154177C03	Implement styles on a web page using CSS	0.75
10154177C04	Create a Capstone Website	0.75
1010712700	IT Careers	1.00
10107127C01	Explore IT career readiness	1.00
1010311500	MS Word Beginning	1.00
10103107C01	Create a flyer, research paper, and business letter using a word processing software.	1.00

<b>COURSE #</b>	<b>COURSE TITLE</b>		<b>CREDITS</b>
10103126 00	<u>MS Excel Beginning</u>		1.00
	10103107C02	Create worksheets with an embedded chart, formulas, and If statements	1.00
1010314900	<u>MS Visio</u>		1.00
	10103149C01	Create profession ready business diagrams and flow charts	1.00
1015416500	<u>Project Management</u>		3.00
	10154165C01	Summarize the concepts, tools and techniques of project management	3.00
1015011400	<u>Networking 1</u>		3.00
	10150130C01	Summarize and configure Routers and Routing protocols	0.50
	10150130C02	Configure switches to include access methods and VLANS	0.50
	10150130C03	Configure Access Control Lists	0.50
	10150130C04	Configure Routers to perform DHCP and Network Address translation	0.75
	10150130C05	Manage and Maintain Devices on the network	0.25
1015414000	<u>PC Maintenance and Troubleshooting</u>		3.00
	10154140C01	Assemble and maintain computer hardware	1.00
	10154140C02	Install, configure, and manage a windows operating system	0.50
	10154140C03	Implement basic networking concepts on a computer system	0.50
	10154140C04	Explore mobile devices and mobile operating systems	0.25
	10154140C05	Manage printers and peripheral devices	0.25
	10154140C06	Examine and maintain basic security on a computer system	0.25
	10154140C07	Introduce troubleshooting and professionalism	0.25
1015214000	<u>Emerging Software Technologies</u>		3.00
	10152120C01	Develop a basic Visual Basic Program	1.50
	10152120C02	Develop a basic JAVA Program	1.50

<b>COURSE #</b>	<b>COURSE TITLE</b>	<b>CREDITS</b>
1089010300	<u>Professional Career Management</u>	1.00
	10890103C01    Develop an individualized, results-oriented job search strategy.	1.00
1080119500	<u>Written Communication</u>	3.00
	10801195C01    Apply conventional elements of formal writing	1.00
	10801195C02    Craft effective persuasive formal writing	1.00
	10801195C03    Synthesize out sources with formal writing	1.00
1080412300	<u>Math with Business Applications</u>	3.00
	10804123C01    Compute basic mathematic operations needed in business	1.00
	10804123C02    Apply mathematics related to finance	1.00
	10804123C03    Apply mathematics in business decision process	1.00
1080119600	<u>Oral Interpersonal Communication</u>	3.00
	10801196C01    Demonstrate effective oral communication	0.50
	10801196C02    Demonstrate effective oral interpersonal skills	2.50
1080119700	<u>Technical Reporting</u>	3.00
	10801197C01    Demonstrate effective technical writing skills for an IT business setting	1.50
	10801197C02    Present informal and formal reports	1.50
1080919500	<u>Economics</u>	3.00
	10809195C01    Identify and understand foundational economic theory and principles using current dynamic industry scenarios	1.00
	10809195C02    Assess and critique macro-economic indicators as related to industry sectors	1.00
	10809195C03    Connect and critique current and future economic policy implications at national and global levels as related to the IT industry	1.00
1080919900	<u>Psychology of Human Relations</u>	3.00
	10809199C01    Stress in everyday life self-analysis	0.50
	10809199C02    Relationship making or break review	0.50
	10809199C03    Successful groups identification	1.00
	10809199C04    Individual professional profile	1.00
1015214600	<u>Programming 2</u>	3.00
1015216000	<u>Programming 3</u>	3.00

COURSE #	COURSE TITLE	CREDITS
1015212500	Database Design and Implementation	4.00
1015218300	Interactive Web Programming	3.00
1015215500	E-Portfolio	3.00

**Total Credits: 61.00**

Talk with an Academic Advisor about the program outline. Together, you will determine if credits you've already earned satisfy any requirements, discuss possible alternative courses, and choose the best classes if you're thinking of transferring.

## AT A GLANCE

### Flexible Options



ON CAMPUS ONLINE MULTIPLE START DATES PERSONALIZED PACE

### 2019 Start Dates

January 16	April 15	September 9
February 4	June 6	October 7
March 4	July 1	November 4
April 1	September 4	

### 2020 Start Dates

January 8	March 2	June 1
January 15	May 8	July 6
February 3	May 11	

### What is Competency-Based Education?

Competency-Based Education (CBE) is learning at your own pace by mastering competencies through demonstration. Once all competencies for a program have been assessed and mastered, students will earn a certificate, diploma, or degree.

[LEARN MORE ABOUT CBE](#)

### Approximate Cost

**\$8,186\***

Financial Aid Eligible

\*Based on 10-level courses - materials, books, and fees may be additional

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## What You'll Learn

- Design and implement efficient relational database structures, such as 3NF.
- Understand the various career opportunities in the Information Technology field, along with the social and ethical responsibilities required of those positions.
- Prepare commonly used documents and procedures extracting information from Information Technology case studies.
- Write computer programs to access database records.
- Write interactive computer programs, web-based programs, software documentation, and system design specifications.
- Understanding of the fundamentals of computer networking and the various technologies of local and wide area computer networks through lab assignments and projects.
- Develop the requirements of information systems and databases.

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## Your Potential Careers

- Web Programmer
- Web Analyst
- Web Developer
- Web Designer

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## Median Annual Salary

\$40,518	\$44,512	\$57,096
Local	State	National

EMSI 2018.3

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## Get Started

Your application can be submitted online, it takes just a few minutes to complete.

[APPLY NOW](#)