WEB PROGRAMMING/ COMPUTER PROGRAMMING

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The **Web Programming / Computer Programming Major** prepares the student to work as a web programmer, computer programmer, programmer/analyst, or systems analyst. Graduates of this major can apply their course work toward a four-year degree and a career as a software engineer. Students learn the entire spectrum of information systems analysis and design through completed programming and implementation. Students will utilize the Visual Studio to learn a variety of languages including, but not limited to, Visual Basic, C#, and .NET5. Students will also gain exposure to Python, HTML5, CSS, and JavaScript.

Program Learning Outcomes

Upon completion, the student will be able to:

1. Develop sound logic and programming skills that can be applied to multiple languages.
2. Create business solutions using the latest programming languages.
3. Design and develop mobile applications.
4. Solve logical problems using selections, loops, polymorphism, or data structures using various programming languages.
5. Evaluate software problems, plans, and solutions for correctness and appropriateness.

Technical Standards

See here for details.

Tech Prep Partner

See here for details.

Web Programming/Computer Programming Major

Associate of Applied Science Degree

Structured Course Sequence (4 Semester Plan)

First Year

First Semester		Hours
COM 1110	English Composition	3
CPT 1110	Introduction to Programming Logic and Design	3
CPT 1580	Introduction to Graphic Design and Layout	3
CPT 1120	Introduction to VB Programming	3
CPT 1411	Microsoft Azure Fundamentals	3
SDE 1010	First Year Experience	1
	Term Hours	**16**

Second Semester

SOC 1010	Sociology	3
MTH 1260	Statistics	3
CPT 2130	JavaScript Programming	3
HST 1620	American History Since 1877	3
CPT 2750	HTML and CSS	3
	Term Hours	**15**

Second Year

First Semester

CPT 2350	Database Programming	3
AIM 1000	Introduction to Artificial Intelligence	3
CPT 2321	C# Programming and .NET5	3
ACC 1010	Corporate Accounting Principles	4
COM 1140	Technical Writing	3
	Term Hours	**16**

Second Semester

CPT 2210	Systems Analysis and Design	3
CPT 2400 ☞	Special Topics in IT	3
CPT 2450	Introduction to Java Programming	3
CPT 2500	iOS Mobile Applications Development	3
CPT 2991	Field Experience	1
AIM 1100 or AIM 1010	Introduction to Machine Learning or Maths for AI	3
	Term Hours	**16**
	Total Hours	**63**

☞ Capstone course

See here for Capstone information.

Prerequisites:
Students should check course prerequisites before registering.