IT-WEB AND SOFTWARE DEVELOPER

Overview

IT -Web and Software Developer

Program Code: 10-152-7

For more information: wctc.edu/web-software *(http://www.wctc.edu/web-software/)*

Creating interactive, inviting and functional web applications requires the skills of a web and software developer. Learn to develop software solutions using multiple programming languages, tools and frameworks. Apply design patterns, object-oriented analysis and SOLID principles to create robust and scalable applications. Explore web server administration and mobile application development.

The minimum required course grades and program grade point average (GPA) for students under this catalog are:

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Core Courses = C
General Studies Courses = C
Program GPA = 2.0
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Build your degree along a career pathway. Start with a couple of courses or an entry-level credential to enter the job market in your area of interest, then continue with higher credentials on your educational path for job advancement and higher wages.

Career Pathway

1. IT Software Development Specialist 18
2. IT Mobile Programmer 27
3. IT Web and Software Developer 64

Learning Outcomes
Program Outcomes

1. Design web and software applications.
2. Apply data persistence technologies.
3. Develop software applications.
4. Develop web applications.
5. Develop documentation.
6. Use infrastructures.
7. Analyze new technologies.

Critical Life Skills

To help our students prepare for success in a workplace and society that is **increasingly global, multi-cultural, and collaborative,** all students are given opportunities to develop and demonstrate Critical Life Skills, both in and out of the classroom. The following Critical Life Skills are learning outcomes for WCTC students.

- **Communication:** Demonstrate appropriate communication.
- **Critical Thinking/Problem Solving:** Demonstrate critical thinking skills to analyze situations and solve problems.
- **Relationships:** Demonstrate effective interpersonal skills.
- **Self-management:** Demonstrate responsible and respectful behavior.

Required Courses

Listed below are the required courses for the program. To view the recommended sequence for taking courses click on the plan of study tab(s) above. Work with your Academic Advisor to design a program plan!

View your **P**rogram Matrix **(**https://www.wctc.edu/_site-pdfs/course-offering-matrix/101527.pdf**)** to find out when each course will be offered (term and time of day).

Code	Title	Credits
Core Courses		
107-119	System Analysis Agile Methods	3
Approved Substitute: 107-118		
107-123	IT Internship	2
152-103	Mobile Application Development	2
Approved Substitute: 152-137 OR 152-142		
152-105	Intro to Web Development	2
Approved Substitute: 201-110		
152-108	Web Server Administration	2
152-109	.Net Web Development	4
152-112	Intro to Programming with C#	3
152-130	Introduction to Java	2
Approved Substitute: 152-134 OR 152-138		
152-131	Software Architecture	2
Approved Substitute: 152-135		
152-145	Advanced Web Services Developm	2
Approved Substitute: 152-171		
152-168	JavaScript	3
Approved Substitute: 152-169		
152-170	IS Project	4
152-179	JavaScript 2	4
152-197	Distributed Java	3
Approved Substitute: 152-198		
156-101	.Net Database Programming	3
156-108	Intro to Databases & Reporting	1
Approved Substitute: 152-115		
156-109	Intro to SQL	2
Approved Substitute: 152-115		
890-108	Employment Success	1
Approved Substitute: 107-117		
General Studies		
801-136	English Composition 1	3
Approved Substitute: 801-223		
801-197	Technical Reporting	3
Approved Substitute: 801-243		
801-198	Speech	3
Approved Substitute: 801-196		
804-133	Math & Logic	3
Approved Substitutes: 804-118 OR 804-116 OR 804-195 OR 804-198		
809-143	Microeconomics	3
Approved Substitute: 809-195		
809-199	Psychology of Human Relations	3

	Approved Substitute: 809-198	
Total Credits		**63**

Full-time Plan

First Year

Fall Term 1		Credits
152-105	Intro to Web Development	2
152-112	Intro to Programming with C#	3
156-108	Intro to Databases & Reporting	1
	Credits	**6**

Fall Term 2		
152-168	JavaScript	3
156-109	Intro to SQL	2
804-133	Math & Logic	3
	Credits	**8**

Spring Term 1		
156-101	.Net Database Programming ^{This course will run 16 weeks.}	3
152-130	Introduction to Java	2
801-136	English Composition 1	3
	Credits	**8**

Spring Term 2		
152-108	Web Server Administration	2
152-131	Software Architecture	2
	Credits	**4**

Summer Term		
801-198	Speech	3
	Credits	**3**

Second Year

Fall Term 1		
152-109	.Net Web Development ^{This course runs for 16 weeks.}	4
152-179	JavaScript 2 ^{This course will run 16 weeks.}	4
107-119	System Analysis Agile Methods	3
	Credits	**11**

Fall Term 2		
801-197	Technical Reporting	3
	Credits	**3**

Winter Interim		
890-108	Employment Success	1
	Credits	**1**

Spring Term 1		
152-170	IS Project ^{This course runs 16 weeks.}	4
152-197	Distributed Java	3
152-145	Advanced Web Services Developm	2
	Credits	**9**

Spring Term 2		
152-103	Mobile Application Development	2
809-143	Microeconomics	3
	Credits	**5**

Summer Term		
107-123	IT Internship	2

809-199	Psychology of Human Relations	3
	Credits	**5**
	Total Credits	**63**

Full-time, Spring Start Plan

First Year

Spring Term 1		Credits
152-105	Intro to Web Development	2
152-112	Intro to Programming with C#	3
156-108	Intro to Databases & Reporting	1
	Credits	**6**

Spring Term 2		
152-168	JavaScript	3
156-109	Intro to SQL	2
804-133	Math & Logic	3
	Credits	**8**

Summer Term		
801-198	Speech	3
	Credits	**3**

Fall Term 1		
152-130	Introduction to Java	2
156-101	.Net Database Programming	3
	This course runs 16 weeks.	
801-136	English Composition 1	3
	Credits	**8**

Fall Term 2		
152-108	Web Server Administration	2
152-131	Software Architecture	2
	Credits	**4**

Second Year

Winter Interim		
890-108	Employment Success	1
	Credits	**1**

Spring Term 1		
107-119	System Analysis Agile Methods	3
152-109	.Net Web Development	4
	This course runs 16 weeks.	
152-179	JavaScript 2	4
	Credits	**11**

Spring Term 2		
801-197	Technical Reporting	3
	Credits	**3**

Summer Term		
809-199	Psychology of Human Relations	3
107-123	IT Internship	2
	Credits	**5**

Fall Term 1		
152-145	Advanced Web Services Developm	2
152-170	IS Project	4
	This course runs 16 weeks.	

152-197	Distributed Java	3
	Credits	**9**
Fall Term 2		
152-103	Mobile Application Development	2
809-195	Economics	3
	Credits	**5**
	Total Credits	**63**