



# Atlantic Technical College



## Web Development Program Syllabus 2017-2018

**Instructor Name:** Deborah Berg  
**Department Name:** Business IT  
**Office/Classroom Location:** Bldg 7 Room 169  
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**Instructor Office Hours:**  
**M-F: 2:00 – 3:30 pm**

**Student Hours:**

**Monday – Friday**

**7:00 to 10:00 am (High School AM)**  
**7:30 to 10:30 am (Postsecondary AM)**  
**7:30 am to 2:00 pm (Postsecondary Full-Time)**  
**10:15 am to 1:45 pm ( High School PM)**  
**Online Full or Part-Time**  
**Blended**  
**Lunch 11:00 am – 11:30 am**

**Program Name: : Web Development**  
 Y700100 Program Hours: 1050

OCP	Course Number/Course Title	Credits
<b>A</b>	OTA0040 Information Technology Asst.	<b>150</b>
<b>B</b>	CTS0070 Web Designs Foundations	<b>150</b>
<b>C</b>	CTS0049 Web Scripting CTS0015 Web Media Integration	<b>150</b> <b>150</b>
<b>D</b>	CTS0016 E-commerce CTS0017 Web Interactivity	<b>150</b> <b>150</b>

**Technical College Policy/Adult Student Attendance:**

- A student must be withdrawn after being absent for six (6) consecutive days.
- Two (2) additional absences may be allowed under certain circumstance with appropriate documentation.
- Please refer to the Student Handbook for postsecondary students.
- [http://www.atlanticttechnicalcollege.edu/wp-content/uploads/2016/08/BTC\\_Handbook\\_2016-17.pdf](http://www.atlanticttechnicalcollege.edu/wp-content/uploads/2016/08/BTC_Handbook_2016-17.pdf)

**Magnet High School/Attendance Policy:**

A student who has had at least five unexcused absences, or absences for which the reasons are unknown, within a calendar month, or 10 unexcused absences, or absences for which the reasons are unknown, within a 90-calendar-day period, may be exhibiting a pattern of non-attendance (F.S.1003.26 (1) (b)) and the School Board of Broward County, Policy 5.5.

<p><b>Required Book(s): e-books are available</b>  <b>Software dependent: Adobe CC</b></p> <p>New Perspectives HTML 5 and CSS 3 7th edition</p> <p>The Design Collection ( CC) Revealed:  Adobe InDesign , Photoshop, Illustrator</p> <p>Dreamweaver Revealed ( CC )</p> <p>CIW Internet Business Associate curriculum</p>		<p><b>Required Materials/Supplies:</b></p> <p>Headphones  Storage device (flash drive)</p>	
<p><i>All required books &amp; most materials/supplies can be purchased from the school bookstore. Stop by during operational hours for pricing &amp; purchasing information. <b>Books are Subject to change. Bookstore has current list</b></i></p>			
<p><b>Grading System:</b></p> <p>A 90 - 100%</p> <p>B 80 - 89%</p> <p>C 70 - 79%</p> <p>D 60 - 69%</p> <p>F 0 - 59%</p> <p>I Incomplete</p>		<p><b>Additional Program Specific Grading Information:</b></p> <p>Grade Category _____%</p> <p>Grade Category _____%</p> <p>Grade Category _____%</p>	
<p><b>Online Course Grading Policy:</b></p> <p style="text-align: center;">Online students grades and attendance is based on completing weekly assignment submission by posted due dates.</p>			
<p><b>View Your Grades:</b>  <b>Grades can be viewed online by following the directions below:</b></p> <ol style="list-style-type: none"> <li>Go to <a href="https://browardfocus.com">https://browardfocus.com</a> (access FOCUS using Chrome, Firefox or Safari)</li> <li><b>Username:</b> Student ID (located on your student schedule)</li> <li><b>Password:</b> Student's date of birth formatted as YYYYMMDD.  <i>Four digits for the year, two digits for the month and two digits for the day.</i></li> </ol>			
<p><b>Class Room/ Lab Rules:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Cell phones on vibrate or turned off</li> <li><input type="checkbox"/> Sign in daily on the attendance sheet</li> <li><input type="checkbox"/> Call or email instructor when absent</li> <li><input type="checkbox"/> Follow all instructions given by ATC staff</li> <li><input type="checkbox"/> Come to class on time and prepared to work</li> <li><input type="checkbox"/> No food in the lab</li> </ul>			

<p><b>Industry Credentials:</b></p> <p><b>CIW Internet Business Associate</b>  <b>Adobe Certified Associate: Photoshop</b>  <b>Adobe Certified Associate: Dreamweaver</b></p>	<p><b>Outstanding Student Recognition Information:</b></p> <p>A gold seal will be applied to a Program Completion Certificate or an Applied Technology Diploma if the student has earned a 3.5 GPA or higher in their Career and Technical Education (CTE) classes.</p>
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**Program Name:**

**Course Number: OTA0040**  
**Course Name: Title Information Technology Assistant**  
**Occupational Completion Point: \_\_A\_\_**  
**Intended Outcomes:** (From FL DOE Curriculum Framework)

- Demonstrate knowledge, skill, and application of information systems to accomplish job objectives and Enhance workplace performance
- Develop an awareness of microprocessors and digital computers
- Demonstrate an understanding of operating systems
- Use technology to enhance the effectiveness of communication skills utilizing word processing applications
- Use technology to enhance communication skills utilizing presentation applications
- Use technology to enhance the effectiveness of communication utilizing spreadsheet and database applications
- Use technology to enhance communication skills utilizing electronic mail
- Investigate individual assessment and job/career exploration and individual career planning that reflect the transition from school to work lifelong learning, and personal and professional goals
- Incorporate appropriate leadership and supervision techniques, customer service strategies, and standards of personal ethics to accomplish job objectives and enhance workplace performance
- Demonstrate competence using computer networks, internet, and online databases to facilitate collaborative or individual learning and communication.
- Demonstrate proficiency in page design applicable to the WWW
- Develop an awareness of emerging technologies
- Develop awareness of computer languages and software applications
- Demonstrate comprehension and communication skills

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**Course Number: CTS0070**

**Course Name: Web Design Foundations**

**Occupational Completion Point: \_\_B\_\_**

**Intended Outcomes:** (From FL DOE Curriculum Framework)

- Demonstrate proficiency in website planning and the design process
- Develop markup language structures
- Create basic webpages
- Incorporate images and graphical formatting on a web page
- Create a basic table structure
- Incorporate form structures in a webpage
- Describe frame structures and their usage
- Use cascading Style Sheets
- Examine web design technologies and techniques
- Describe the process for publishing a website
- Describe how website performance is monitored and analyzed
- Create an informational website
- Demonstrate language arts knowledge and skills
- Demonstrate mathematics knowledge and skills

**Course Number: CTS0071**

**Course Name: Web Interface Design**

**Occupational Completion Point: \_\_B\_\_**

**Intended Outcomes:** (From FL DOE Curriculum Framework)

- Incorporate Human Computer Interface (HCI) principles of design
- Research and obtain information for use in designing the user interface
- Create an intuitive interface using Cascading Style Sheets (CSS).
- Demonstrate proficiency creating a logical website file structure
- Create a CSS formatted informational website
- Demonstrate proficiency publishing, testing, monitoring, and maintaining a website
- Use oral and written communication skills in creating, expressing, and interpreting information and ideas
- Solve problems using critical thinking skills, creativity and innovation
- Use information technology tools
- Describe the roles within teams, work units, departments, organizations, inter-organizational systems, and the larger environment
- Describe the importance of professional ethics and legal responsibilities

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**Course Number: CTS0049**

**Course Name: Web Scripting**

**Occupational Completion Point: \_\_\_C\_\_**

**Intended Outcomes:** (From FL DOE Curriculum Framework)

- Discuss the differences between server-side and client-side scripting
- Compare and contrast client-side scripting languages(JavaScript, VBScript, and ECMA Script)
- Demonstrate understanding of the document Object Model (DOM)
- Design, write, debug, and incorporate a JavaScript client-side script into a webpage
- Incorporate basic JavaScript form validation and form handling (using pre-built validation scripts or online libraries)
- Use advanced JavaScript techniques
- Demonstrate understanding of JavaScript accessibility issues
- Select and modify appropriate library and pre-built JavaScript to incorporate into webpage

Course Number: **CTS0015**

Course Name: **Web Media Integration**

Occupational Completion Point: \_\_\_C\_\_

Intended Outcomes: (From FL DOE Curriculum Framework)

- Incorporate graphics, animations, and video assets into a webpage design using conventional HTML techniques
- Demonstrate understanding of XML vocabularies and documents
- Create and debug an XML document
- Create and debug compound documents with Namespaces
- Demonstrate ability to validate documents with a Data Type Definition (DTD)
- Demonstrate ability to validate documents with XML Schema
- Demonstrate an understanding of Asynchronous JavaScript and XML (AJAX) and its implications for web developers
- Plan and implement a multi-page website that features graphics, pictures, and video galleries using AJAX techniques

**Course Number: CTS0016**

**Course Name: Web E-commerce**

**Occupational Completion Point: \_\_D\_\_**

**Intended Outcomes: (From FL DOE Curriculum Framework)**

- Demonstrate knowledge and skills necessary to setup a secure E-commerce site
- Identify security issues associated with E-commerce and discuss methods to mitigate risks
- Apply skills necessary to setup an E-commerce storefront
- Employ techniques to enhance the value and profitability of an E-commerce website
- Develop evaluation and performance monitoring frameworks featuring established metrics and target goals for an E-commerce website

**Course Number: CTS0017**

**Course Name: Web Interactivity**

**Occupational Completion Point: \_\_D\_\_**

**Intended Outcomes: (From FL DOE Curriculum Framework)**

- Demonstrate an understanding of Content Management Systems (CMS) and their implications for web development
- Use CMS features, functions, and extensions/modules to create/enhance a website
- Evaluate the suitability for and system requirements for a content management system
- Demonstrate an understanding of multimedia applications and their implications for web designers
- Create and incorporate interactive website components
- PDF document usage considerations
- Create, format, and manipulate PDF documents
- Display, distribution, and print considerations for PDF documents
- Create and manage PDF forms
- Incorporate PDF security in a PDF document
- Demonstrate proficiency using HTML5 features and functions