Atlantic Technical College
Web Development
Program Syllabus
2017-2018

Instructor Name: Deborah Berg **Department Name:** Business IT **Office/Classroom Location:** Bldg 7 Room 169 **Phone Number: 754-321-5100** **Email Address:** Deborah.Berg@browardschools.com	**Instructor Office Hours:** **M-F:** 2:00 – 3:30 pm

Student Hours:	**Program Name: : Web Development** Y700100 Program Hours: 1050		
Monday – Friday	**OCP**	**Course Number/Course Title**	
	A	OTA0040 Information Technology Asst.	150
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)	**B**	CTS0070 Web Designs Foundations CTS0071 Web Interface Design	150 150
Online Full or Part-Time **Blended** **Lunch 11:00 am – 11:30 am**	**C**	CTS0049 Web Scripting CTS0015 Web Media Integration	150 150
	D	CTS0016 E-commerce CTS0017 Web Interactivity	150 150

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- A student must be withdrawn after being absent for six (6) consecutive days.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.atlantictechnicalcollege.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.

Required Book(s): e-books are available Software dependent: Adobe CC	Required Materials/Supplies:
New Perspectives HTML 5 and CSS 3 7th edition The Design Collection (CC) Revealed: Adobe InDesign , Photoshop, Illustrator Dreamweaver Revealed (CC) CIW Internet Business Associate curriculum	Headphones Storage device (flash drive)

All required books & most materials/supplies can be purchased from the school bookstore. Stop by during operational hours for pricing & purchasing information. **Books are Subject to change. Bookstore has current list**

Grading System:	Additional Program Specific Grading Information:
A 90 - 100% B 80 - 89% C 70 - 79% D 60 - 69% F 0 - 59% I Incomplete	Grade Category _____% Grade Category _____% Grade Category _____%

Online Course Grading Policy:

Online students grades and attendance is based on completing weekly assignment submission by posted due dates.

View Your Grades:

Grades can be viewed online by following the directions below:

1. Go to https://browardfocus.com (access FOCUS using Chrome, Firefox or Safari)
2. **Username:** Student ID (located on your student schedule)
3. **Password:** Student's date of birth formatted as YYYYMMDD.
   Four digits for the year, two digits for the month and two digits for the day.

Class Room/ Lab Rules:

- Cell phones on vibrate or turned off
- Sign in daily on the attendance sheet
- Call or email instructor when absent
- Follow all instructions given by ATC staff
- Come to class on time and prepared to work
- No food in the lab

Industry Credentials:	Outstanding Student Recognition Information:
CIW Internet Business Associate **Adobe Certified Associate: Photoshop** **Adobe Certified Associate: Dreamweaver**	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.

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

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

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