



Program Syllabus

Web Application Development & Programming

Offered on Main Campus

Program Number: Y700500

Program Hours: 1050

Instructor: Leslie Harrison
CompTIA A+, Network+, Security+
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Program Description:

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Information Technology career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Information Technology career cluster.

The content includes but is not limited to the fundamentals of programming and software development; procedural and object-oriented programming; creating web-based applications, including testing, monitoring, debugging, documenting, and maintaining applications.

The purpose of the CSIT program reflects Emerald Coast Technical College's mission as evidenced by the desire to provide students with the training and education that is required to function successfully in the professional workforce.

Prerequisites: None

Industry Certification/Licensure:

CIW Site Development Associate (SDA)
CIW JavaScript Specialist
CIW Advanced HTML5 and CSS3

Occupational Completion Points:

| OCP | Course Number | Course Title | Course Length | SOC Code |
|-----|---------------|----------------------------------|---------------|----------|
| A | OTA0040 | Information Technology Assistant | 150 hours | 15-1151 |
| B | CTS0041 | Computer Programmer Assistant | 300 hours | 15-1131 |
| C | CTS0044 | Computer Programmer | 150 hours | 15-1131 |
| D | CTS0034 | Web Programmer | 450 hours | 15-1131 |

Program objectives and outcomes include but are not limited to:

1. Demonstrate proficiency using HTML commands.
2. Demonstrate proficiency in page design applicable to the WWW.
3. Demonstrate proficiency using common software applications.
4. Demonstrate knowledge of different operating systems.
5. Explore the characteristics, tasks, work attributes, options, and tools associated with a career in software development.
6. Design, document, and create object-oriented computer programs.
7. Design a unit test plan for an object-oriented computer program, test and debug the program, and report the results.



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8. Demonstrate proficiency using HTML and XHTML to create web content.
9. Demonstrate proficiency using cascading style sheets (CSS) to format web pages.
10. Demonstrate proficiency using basic client-side scripting to control the content and the behavior of HTML and XHTML documents.
11. Demonstrate an understanding of JavaScript programming fundamentals.
12. Demonstrate proficiency in assigning and handling variables in JavaScript programs and functions.
13. Use event handlers in JavaScript programs and functions.
14. Customer service and human relations.
15. Employability skills.
16. Safe, efficient work practices.
17. Industry Certification

Textbook:

HTML5 and CSS Complete, 7th Edition by Shelly/Woods ISBN: 9781133526124

Online Resources:

Edmodo

CIW SDA, JavaScript Specialist, Advanced HTML

**Please note, the cost of online resources is included in lab fees. Students will not need to purchase additional resources.*

Tools/Supplies/Materials:

Students will need to provide their own writing utensils and paper for note-taking purposes. Students are not required to purchase or bring their own tools for this program.

Grading Scale:

| | |
|---|------------|
| A | 93-100 |
| B | 84-92 |
| C | 70-83 |
| F | 69 & Below |

Evaluation/Assessment:

40% Evaluation (Written Exams and Major Projects)

40% Competency/Performance Evaluation (assignments, minor projects, homework and lab activities)

20% Certification Prep

Satisfactory Progress:

This program is a planned sequence of instruction consisting of four occupational completion points. When the recommended sequence is followed, the structure is intended to prepare students to complete the industry certifications associated with this program of study. This program adheres to the Satisfactory Progress guidelines listed in the ECTC Catalog.

Instructional Delivery Methods:

This program is a traditional program taught on ECTC campus. It uses a variety of instructional delivery methods including but not limited to:

- ❖ Hands-on training
- ❖ Lectures
- ❖ Videos
- ❖ Web-based programs



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Conferences and Assistance:

Please contact the instructor first. Counselors located in student services are also available.

Classroom Location:

761 N. 20th Street DeFuniak Springs, Florida 32433
Building 100 Room 052

Office Location:

761 N. 20th Street DeFuniak Springs, Florida 32433
Building 100 Room 052

Office Hours:

Regular office hours for the instructor are 7:30-8:00 a.m. (Mon-Thurs) or as scheduled by appointment.

Attendance:

Attendance is mandatory. Students who believe that attendance may present a problem should discuss their situation with the instructor and with student services. Meet with instructor to schedule makeup hours. Refer to the ECTC Catalog/Student Handbook for the attendance policy.

Meeting Times/Contact Hours:

Refer to student schedule for class meeting times.

Equipment:

This program includes hardware and software used in the industry, including but not limited to: authoring languages, programming languages, scripting languages, Windows operating systems and applications.

Safety:

- Safety is priority one.
- This program follows CDC guidelines.
- Touch-free temperature and hand sanitizing stations have been installed.
- Report any unsafe conditions to the instructor immediately.
- If you are not comfortable or confident with any lab or project, stop and notify instructor.

Emergency Procedures:

- Emergency exits are clearly marked.
- As part of regular classroom instruction, students will be asked to participate in regular safety and emergency drills.
- Fire extinguishers are located in each area.

Rules and Regulation / Policies and Procedures:

Students will follow all rules/regulations outlined in the Emerald Coast Technical College Catalog.

General Information:

Refer to the ECTC Catalog located at <http://www.ECTC.edu>, for additional information:

- Career and Counseling Services
- Services for Students with Disabilities
- Student Grievance Procedures
- Leave of Absence
- Withdrawal Procedures