

Advanced Web Development

Career Cluster	Information Technology
Course Code	10201
Prerequisite(s)	Computer Applications Introduction to Information Technology (recommended) Computer Information Technology (recommended) Web Development
Credit	.5-1
Program of Study and Sequence	Advanced Web Development is in the Programming Pathway and the Web & Digital Communication Pathway
Student Organization	SkillsUSA, Future Business Leaders of America, CyberPatriots
Coordinating Work-Based Learning	Job Shadowing, Informational Interviews, Tours
Industry Certifications	None
Dual Credit or Dual Enrollment	TBD
Teacher Certification	Information Technology Cluster Endorsement; Web & Digital Communications Pathway Endorsement; Arts, AV Technology & Communications Cluster Endorsement; K-12 Educational Technology Endorsement; K-12 Classroom Technology Endorsement
Resources	

Course Description:

Advanced Web Development is a course designed to guide students in a project-based environment implementing web development techniques. Through the use of hypertext markup language (HTML5) coding, Cascading Style Sheets (CSS), and JavaScript students will plan, design, develop, deploy, and maintain website projects. Students will learn fundamentals for a career in web development as they complete projects and create their own website. Advanced Web Development reviews and builds on the concepts introduced in Web Development including live production and scripting.

Program of Study Application: Advanced Web Development is in the Programming Pathway and the Web & Digital Communication Pathway

Course Standards

INDICATOR # AWD 1. Demonstrate creation of a website for a real-world application.		
<i>Webb Level</i>	<i>Sub-Indicator</i>	<i>Integrated Content</i>
Level 3: Strategic Thinking	AWD 1.1 Create a website.	
Level 3: Strategic Thinking	AWD 1.2 Develop appropriate file structure and naming.	
Level 3: Strategic Thinking	AWD 1.3 Create website with appropriate HTML structure and standards that can be validated using World Wide Web Consortium validator (W3C).	
Level 3: Strategic Thinking	AWD 1.4 Demonstrate the use of elements and attributes.	
Level 3: Strategic Thinking	AWD 1.5 Incorporate meta tags for page documentation and search engine optimization (SEO).	
Level 4: Extended Thinking	AWD 1.6 Implement advanced elements to create a website.	

Indicator # AWD 2 Format website using Cascading Style Sheets (CSS).		
<i>Webb Level</i>	<i>Sub-Indicator</i>	<i>Integrated Content</i>
Level 3: Strategic Thinking	AWD 2.1 Apply essential aspects of the CSS.	

Level 3: Strategic Thinking	AWD 2.2 Apply CSS to a website.	
Level 4: Extended Thinking	AWD 2.3 Use selectors in a CSS.	
Level 4: Extended Thinking	AWD 2.4 Format page layout with advanced CSS.	

INDICATOR # AWD 3. Plan, design, implement, and maintain website(s).		
<i>Webb Level</i>	<i>Sub-Indicator</i>	<i>Integrated Content</i>
Level 3: Strategic Thinking	AWD 3.1 Analyze project requirements.	
Level 3: Strategic Thinking	AWD 3.2 Develop site design and page layout utilizing best practices.	
Level 4: Extended Thinking	AWD 3.3 Create content for website.	
Level 4: Extended Thinking	AWD 3.4 Upload and maintain a site.	

INDICATOR # AWD 4. Explore advanced web concepts.		
<i>Webb Level</i>	<i>Sub-Indicator</i>	<i>Integrated Content</i>
Level 3: Strategic Thinking	AWD 4.1 Demonstrate the use of scripting and other interactive tools.	
Level 2: Skill/concept	AWD 4.2 Explore other web technologies.	