Information Technology Career Cluster Web Design Course Number: 11.45200

Course Description:

Can you think of any company that does not have a web presence? Taking this course will equip students will the ability to plan, design, and create a web site. Students will move past learning how to write code and progress to designing a professional looking web site using graphical authoring tools that contains multimedia elements. Working individually and in teams, students will learn to work with web page layout and graphical elements to create a professional looking web site.

Various forms of technologies will be used to expose students to resources, software, and applications of web design. Professional communication skills and practices, problem-solving, ethical and legal issues, and the impact of effective presentation skills are enhanced in this course to prepare students to be college and career ready. Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry. Competencies in the co-curricular student organization, Future Business Leaders of America (FBLA), are integral components of the employability skills standard for this course.

Web Design is the third course in the Web & Digital Design pathway in the Information Technology cluster. Students enrolled in this course should have successfully completed Introduction to Digital Technology and Digital Design. After mastery of the standards in this course, students should be prepared to take the end of pathway assessment in this career area.

Course Standard 1

IT-WD-1

The following standard is included in all CTAE courses adopted for the Career Cluster/Pathways. Teachers should incorporate the elements of this standard into lesson plans during the course. The topics listed for each element of the standard may be addressed in differentiated instruction matching the content of each course. These elements may also be addressed with specific lessons from a variety of resources. This content is not to be treated as a unit or separate body of knowledge but rather integrated into class activities as applications of the concept.

Standard: Demonstrate employability skills required by business and industry.

The following elements should be integrated throughout the content of this course.

1.1 Communica	1.1 Communicate effectively through writing, speaking, listening, reading, and interpersonal abilities.				
Person-to-Person	rson-to-Person Telephone and Cell Phone and Communicating At		Listening		
Etiquette	Email Etiquette	Internet Etiquette	Work		
Interacting with	Telephone	Using Blogs	Improving	Reasons, Benefits,	
Your Boss	Conversations		Communication Skills	and Barriers	
Interacting with	Barriers to Phone	Using Social Media	Effective Oral	Listening Strategies	
Subordinates	conversations		Communication		
Interacting with	Making and		Effective Written	Ways We Filter	
Co-workers	Returning Calls		Communication	What We Hear	
Interacting with	Making Cold Calls		Effective Nonverbal	Developing a	
Suppliers			Skills	Listening Attitude	
	Handling		Effective Word Use	Show You Are	
	Conference Calls			Listening	

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Handling Unsolicited Calls	Giving and Receiving Feedback	Asking Questions
		Obtaining Feedback
		Getting Others to Listen

Nonverbal Communication	Written Communication	Speaking	Applications and Effective Résumés
Communicating Nonverbally	Writing Documents	Using Language Carefully	Completing a Job Application
Reading Body Language and mixed Messages	Constructive Criticism in Writing	One-on-One Conversations	Writing a Cover Letter
Matching Verbal and Nonverbal communication		Small Group Communication	Things to Include in a Résumé
Improving Nonverbal Indicators		Large Group Communication	Selling Yourself in a Résumé
Nonverbal Feedback		Making Speeches	Terms to Use in a Résumé
Showing Confidence Nonverbally		Involving the Audience	Describing Your Job Strengths
Showing Assertiveness		Answering Questions	Organizing Your Résumé
		Visual and Media Aids	Writing an Electronic Résumé
		Errors in Presentation	Dressing Up Your Résumé

1.2 Demonstrate creativity by asking challenging questions and applying innovative procedures and methods.

Teamwork and Problem Solving	Meeting Etiquette	
Thinking Creatively	Preparation and Participation in Meetings	
Taking Risks	Conducting Two-Person or Large Group Meetings	
Building Team Communication	Inviting and Introducing Speakers	
	Facilitating Discussions and Closing	
	Preparing Visual Aids	
	Virtual Meetings	

1.3 Exhibit critical thinking and problem solving skills to locate, analyze and apply information in career planning and employment situations.

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Problem	Customer Service	The Application Process	Interviewing	Finding the Right
Solving			Skills	Job
Transferable	Gaining Trust and	Providing Information,	Preparing for an	Locating Jobs and
Job Skills	Interacting with	Accuracy and Double	Interview	Networking
	Customers	Checking		
Becoming a	Learning and	Online Application	Questions to Ask in	Job Shopping
Problem Solver	Giving Customers	Process	an Interview	Online
	What They Want			
Identifying a	Keeping Customers	Following Up After	Things to Include in	Job Search
Problem	Coming Back	Submitting an Application	a Career Portfolio	Websites
Becoming a	Seeing the	Effective Résumés:	Traits Employers	Participation in Job
Critical Thinker	Customer's Point		are Seeking	Fairs
Managing	Selling Yourself and	Matching Your Talents to	Considerations	Searching the
	the Company	a Job	Before Taking a	Classified Ads
			Job	
	Handling Customer	When a Résumé Should		Using Employment
	Complaints	be Used		Agencies

Strategies for Customer Service		Landing an Internship
		Staying Motivated to Search

1.4 Model work readiness traits required for success in the workplace including integrity, honesty, accountability, punctuality, time management, and respect for diversity.

Workplace	Personal	Employer	Business Etiquette	Communicating at
Ethics	Characteristics	Expectations	Dusiness Etiquette	Work
Demonstrating	Demonstrating a	Behaviors Employers	Language and	Handling Anger
Good Work Ethic	Good Attitude	Expect	Behavior	
Behaving	Gaining and	Objectionable	Keeping Information	Dealing with
Appropriately	Showing Respect	Behaviors	Confidential	Difficult Coworkers
Maintaining	Demonstrating	Establishing	Avoiding Gossip	Dealing with a
Honesty	Responsibility	Credibility		Difficult Boss
Playing Fair	Showing	Demonstrating Your	Appropriate Work	Dealing with
	Dependability	Skills	Email	Difficult Customers
Using Ethical	Being Courteous	Building Work	Cell Phone Etiquette	Dealing with Conflict
Language		Relationships		
Showing	Gaining		Appropriate Work	
Responsibility	Coworkers' Trust		Texting	
Reducing	Persevering		Understanding	
Harassment			Copyright	
Respecting	Handling		Social Networking	
Diversity	Criticism			
Making	Showing			
Truthfulness a	Professionalism			
Habit				
Leaving a Job				
Ethically				

1.5 Apply the appropriate skill sets to be productive in a changing, technological, diverse workplace to be able to work independently and apply team work skills.

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Expected Work Traits	Teamwork	Time Management			
Demonstrating Responsibility	Teamwork Skills	Managing Time			
Dealing with Information Overload	Reasons Companies Use Teams	Putting First Things First			
Transferable Job Skills	Decisions Teams Make	Juggling Many Priorities			
Managing Change	Team Responsibilities	Overcoming Procrastination			
Adopting a New Technology	Problems That Affect Teams	Organizing Workspace and Tasks			
	Expressing Yourself on a Team	Staying Organized			
	Giving and Receiving Constructive	Finding More Time			
	Criticism				
		Managing Projects			
		Prioritizing Personal and Work Life			

1.6 Present a professional image through appearance, behavior and language.

On-the-Job Etiquette	Person-to-Person Etiquette	Communication Etiquette	Presenting Yourself
Using Professional	Meeting Business	Creating a Good Impression	Looking Professional
Manners	Acquaintances		
Introducing People	Meeting People for the First	Keeping Phone Calls	Dressing for Success
	Time	Professional	
Appropriate Dress	Showing Politeness	Proper Use of Work Email	Showing a Professional
			Attitude

Business Meal	Proper Use of Cell Phone	Using Good Posture
Functions		
Behavior at Work	Proper Use in Texting	Presenting Yourself to
Parties		Associates
Behavior at		Accepting Criticism
Conventions		
International Etiquette		Demonstrating
_		Leadership
Cross-Cultural Etiquette		
Working in a Cubicle		

Support of CTAE Foundation Course Standards and Georgia Standards of Excellence L9-10RST 1-10 and L9-10WHST 1-10:

Georgia Standards of Excellence ELA/Literacy standards have been written specifically for technical subjects and have been adopted as part of the official standards for all CTAE courses.

Course Standard 2

IT-WD-2

Plan, develop, implement, and resolve ethical issues involved in creating and publishing a web site.

- 2.1 Define key terms in site development: cloud computing, versions of HTML, CSS, design consistency, deprecated tags, wire framing/layout design, hyperlinks.
- 2.2 Develop a logical argument for using cloud computing and the various web hosting platforms for business and personal use.
- 2.3 Describe and illustrate different versions of HTML and the development of HTML.
- 2.4 Describe the phases of web development (life cycle) and provide specific tasks for each phase.
- 2.5 Use flowcharts/storyboards to design a web site.
- 2.6 Identify essential web site navigation issues that help ensure site usability (consistency, intuitive text/icons, and breadcrumbs).
- 2.7 Describe ethical, government, and accessibility standards & W3C standards (readability, usability, browser compatibility, and copyright issues related to use of digital media).
- 2.8 Identify technologies available to enhance the user's experience, including programming languages and multimedia technologies.

Course Standard 3

IT-WD-3

Create documents using a variety of tags following coding practices commonly used to create web pages.

- 3.1 Identify basic HTML document (web page) layout & tags used to create web pages according to industry standards (e.g., header, footer, side bar, main content, navigation/menu bar, tabs/drop downs).
- 3.2 Demonstrate ability to create a web site utilizing the latest version of HTML (e.g., headings, paragraphs, breaks, lists, links, images, horizontal rules, divs).

- 3.3 Demonstrate ability to format text using proper tags set by the W3C (strong, emphasize).
- 3.4 Demonstrate ability to use tables to control the layout and appearance of data.
- 3.5 Demonstrate ability to create forms that accepts user inputs.
- 3.6 Demonstrate understanding of the importance of validating web sites and tools available for the process.

Course Standard 4

IT-WD-4

Create and use graphics to enhance web pages using a variety of tools.

- 4.1 Identify and use design and color principles appropriate for graphics and web pages.
- 4.2 Describe the image formats used within a web page (gif, jpg, png, image maps) and describe appropriate use of which format.
- 4.3 Add images to a web page to enhance meaning of web content.
- 4.4 Explore online tools and downloadable software available to create and edit still and animated graphics.

Course Standard 5

IT-WD-5

Define and apply essential aspects of the Cascading Style Sheets to format elements within a web site.

- 5.1 Use knowledge of how and why style sheets are used in web design to explain design elements of a web site.
- 5.2 Create and modify internal and external style sheets to format the styling of text, layout tables, content flow, positioning of objects.
- 5.3 Design web pages utilizing CSS to manage text flow using regions, columns, and graphical interfaces.

Course Standard 6

IT-WD-6

Use (Graphic User-Interface) GUI-based HTML editing software to create web sites.

- 6.1 Explain the differences between the types of editing software and when to editing software: text, object, and WYSIWYG (What You See Is What You Get).
- 6.2 Design web sites using a GUI-based editor following the design principles to enable navigation, usability, and accessibility.
- 6.3 Explore advanced layouts & scripting tools available through GUI-based editors such as widgets, image sliders, etc.
- 6.4 Create a website which implements tables.
- 6.5 Create and use interactive forms on a web site.
- 6.6 Design and implement layers, image maps, and navigation bars.
- 6.7 Enhance a website with media objects and images.

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Course Standard 7

IT-WD-7

Develop an understanding of e-commerce practices and related technologies necessary to create a secure, useful interface to conduct business online.

- 7.1 Develop a working e-commerce vocabulary including e-business, mobile commerce, branding, market space, business model (B2B, B2C), security, payment options.
- 7.2 Explain the importance of branding and establishing a color palette for an e-business to create an online presence.
- 7.3 Explain the importance of using web design principles to meet customer expectations.
- 7.4 Explain the benefits of configuring a site to mobile standards currently used further the accessibility of an e-business.

Course Standard 8

IT-WD-8

Test, analyze, and identify performance issues related to publishing and maintaining web sites.

- 8.1 Identify essential issues in developing and maintaining a web site, including project management, testing, legal issues.
- 8.2 Identify strategies commonly used for managing a user's experience and improving site creativity and aesthetic qualities.
- 8.3 Explore options for publishing a web site and web hosting.
- 8.4 Identify the benefits and drawbacks of running your own web server versus using a service provider.
- 8.5 Plan and deliver oral presentations of a web site explaining the developmental process before, during, and after site completion to a potential customer.

Course Standard 9

IT-WD-9

Explore how related student organizations are integral parts of career and technology education courses through leadership development, school and community service projects, entrepreneurship development, and competitive events.

- 9.1 Explain the goals, mission, and objectives of Future Business Leaders of America.
- 9.2 Explore the impact and opportunities a student organization (FBLA) can develop to bring business and education together in a positive working relationship through innovative leadership and career development programs.
- 9.3 Explore the local, state, and national opportunities available to students through participation in related student organization (FBLA) including but not limited to conferences, competitions, community service, philanthropy, and other FBLA activities.
- 9.4 Explain how participation in career and technology education student organizations can promote lifelong responsibility for community service and professional development.
- 9.5 Explore the competitive events related to the content of this course and the required competencies, skills, and knowledge for each related event for individual, team, and chapter competitions.

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