

**GEORGE MASON UNIVERSITY
COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT
INSTRUCTIONAL TECHNOLOGY**

EDIT 425, EDIT 526, EDSE 526

Web Accessibility and Design

Spring Semester

PROFESSOR:

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COURSE DESCRIPTION

This 3-credit course will enable students to use Adobe Dreamweaver to design and develop a comprehensive web site in accordance with universal web design standards and web accessibility guidelines as defined in Section 508 of the Rehabilitation Act and the Web Content Accessibility Guidelines (WCAG) 2.0. Students will learn to evaluate and report on the accessibility of existing web content from the perspective of different disability types, using a user-centered, principle-based approach.

Focus Areas

This course has four focus areas:

1. **XHTML**
2. **CSS (Cascading Style Sheets)**
3. **Web Accessibility (Disability Access)**
4. **Dreamweaver (learn how to use the tool for XHTML, CSS, and accessibility)**

Student Outcomes

The course is designed to enable students to:

1. **Create standards-based web content using XHTML 1.0 Strict and CSS (Cascading Style Sheets)**
2. **Design for disability accessibility**

Professional/Technical Standards Taught

- XHTML (1.0 strict)
- CSS
- Section 508 of the Rehabilitation Act (the portion dealing with web accessibility standards)
- WCAG (Web Content Accessibility Guidelines)

Course Web Site

The course materials are all online.

Readings

Web-based resources will be provided by the instructor through the course web site.

Software

Note: You do not necessarily need to buy any of the software listed below, but you will need access to it. All of the required software will be available in the classroom computer labs in Commerce I and Robinson A350. The lab in Robinson A350 usually has more public free-use time than Commerce I. Check with the lab schedules.

- **REQUIRED: A plain text editor.** I recommend [PSPad](#) (free, for Windows) or [TextPad](#) (free, for Windows) or [Text Wrangler](#) (free, for Mac).
- **REQUIRED: [Dreamweaver](#),** (version CS3, CS4, or CS5) since the instructor will use Dreamweaver to demonstrate the techniques. Dreamweaver is available in the computer labs in Commerce I and Robinson A350 on campus. Students may also purchase their own copy at the discounted educational rate through the campus bookstore or any other retailer such as [AcademicSuperstore.com](#), [JourneyEd.com](#), [Gradware.com](#), [CampusTech.com](#), or others. A 30-day trial version is available for download from the Adobe site, but obviously the semester lasts more than 30 days, so you'll either need to buy it eventually, use the copy in the computer labs.
- **Optional: Any graphics program** that can create graphics for the web. We will not learn techniques for any of these programs in this class (other classes do this), but if you already know how to use them, or if you are willing to try them, they are very useful. The computer labs have Adobe Photoshop and Adobe Fireworks. For those installing the software on their own computers, if you can't afford the more expensive programs, try the cheaper ones. If you don't like any of the programs in this list, try searching on the web for "free graphics programs" (or something similar) and you'll see that you have quite a few options. (Prices shown are approximate educational price.)
 - High-end graphics software (powerful but perhaps overly complicated for people who aren't used to it):
 - [Adobe PhotoShop](#) - (Windows/Mac) very common among graphics professionals; can be purchased alone or in the Adobe Creative Suite); the downside is that it is expensive and can be complicated to use.
 - [Corel PhotoPaint](#) - (Windows) this is a powerful tool similar to PhotoShop; it comes with the CorelDraw Graphics suite; the downside is that, like PhotoShop, this has many advanced features that can be difficult to get used to.
 - [Gimp](#) - (Windows/Linux/Mac, in the X-windows environment) FREE. This is a powerful graphics tool at the most reasonable price of all; as with the others, the downside is that the interface is sometimes confusing to people who haven't used advanced graphics programs.
 - Mid-level software:
 - [Corel Paint Shop Pro](#) - (Windows/Mac) quite robust at a reasonable price; quite user-friendly compared to some of the previously-mentioned programs.
 - [Adobe Fireworks](#) - (Windows/Mac) great for web graphics, it comes with Adobe Creative Suite; quite user-friendly.
 - [PhotoPlus](#) - Free. This is a great option for students on a budget. It will do most things you need to do for the web.

COURSE REQUIREMENTS, PERFORMANCE-BASED ASSESSMENT, AND EVALUATION CRITERIA

A. Requirements

Assignment	Focus Area	Grade %	Due	Description
Practice Web Page - No Template	XHTML	16%	February 7	The student will create a web page, according to technical specifications that the instructor provides in detail on the course web site.
Practice Web Site - Dreamweaver Template	Dreamweaver	16%	February 21	The student will create a collection of 5 web pages using the same Dreamweaver template.
Practice CSS Assignment	CSS	16%	March 21	Create practice web pages with an external style sheet, according to the specifications provided by the instructor.
Accessibility Evaluation of an Existing Web Site	Accessibility	21%	April 11	Write a written report about the accessibility of a web site assigned by the instructor.
Final Web Design Project using CSS and a Dreamweaver Template	Synthesis of XHTML, Dreamweaver, CSS, and Accessibility	21%	May 6	The student will create a portfolio-style web site, according to the instructor's parameters, which are detailed in the course web site.
Participation in class online discussions	All focus areas	10%	Throughout semester	The instructor will post questions and discussion items for students to respond to. Students should also take advantage of the forum to ask and answer questions to/from other students. In fact, students are highly encouraged to make this class a collaborative learning effort.

B. Performance-Based Assessments

This course includes 5 performance-based assessments:

1. Practice Web Page - No Template
2. Practice Web Site - Dreamweaver Template
3. Practice CSS Assignment
4. Accessibility Evaluation of an Existing Web Site
5. Final Web Design Project using CSS and a Dreamweaver Template

These are described above in Requirements

C. Criteria for Evaluation

Detailed criteria for evaluation will be given to students for each assignment.

D. Grading Scale

Grading Scale	
Points	Grade
94-100	A
90-93	A-
86-89	B+
80-85	B
70-79	C
69 or below	F

General Grading Criteria	
Credit	Criteria
Full credit	The student completed the assignment as directed <i>AND</i> on time.
Partial credit	The student did not finish the assignment, turned in the assignment late, or did not follow the instructions properly.
No credit	The student did not turn in the assignment, or turned it in more than a week late.

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT

Student Expectations

- Students must adhere to the guidelines of the George Mason University Honor Code [See <http://academicintegrity.gmu.edu/honorcode/>].
- Students with disabilities who seek accommodations in a course must be registered with the George Mason University Office of Disability Services (ODS) and inform their instructor, in writing, at the beginning of the semester [See <http://ods.gmu.edu/>].
- Students must follow the university policy for Responsible Use of Computing [See <http://universitypolicy.gmu.edu/1301gen.html>].
- Students are responsible for the content of university communications sent to their George Mason University email account and are required to activate their account and check it regularly. All communication from the university, college, school, and program will be sent to students solely through their Mason email account.
- Students must follow the university policy stating that all sound emitting devices shall be turned off during class unless otherwise authorized by the instructor.

- Students are expected to exhibit professional behaviors and dispositions at all times.

Campus Resources

- The George Mason University Counseling and Psychological Services (CAPS) staff consists of professional counseling and clinical psychologists, social workers, and counselors who offer a wide range of services (e.g., individual and group counseling, workshops and outreach programs) to enhance students' personal experience and academic performance [See <http://caps.gmu.edu/>].
- The George Mason University Writing Center staff provides a variety of resources and services (e.g., tutoring, workshops, writing guides, handbooks) intended to support students as they work to construct and share knowledge through writing [See <http://writingcenter.gmu.edu/>].

GSE faculty may add at the conclusion:

- For additional information on the College of Education and Human Development, Graduate School of Education, please visit our website [See <http://gse.gmu.edu/>].

RHT faculty may add at the conclusion:

- For additional information on the College of Education and Human Development, School of Recreation, Health, and Tourism, please visit our website [See <http://rht.gmu.edu/>].