

COURSE SYLLABUS
Southeast Missouri State University

Department of Industrial and Engineering Technology

Course No.: **TG 388**

Title of Course: **Technical Aspects of Website Design & Development**

New, Fall 2005

I. Catalog Description and Credit Hours of Course:

This course addresses the design and development of industrial/commercial websites. Topics covered include: necessary components of a well-designed site, site management, HTML, CSS, JavaScript, design of navigation systems, interactivity, and integration of vector-based animations and animated navigation panels into websites. (3 Credit hours; Contact hours - 1 hour lecture, 4 hours laboratory).

II. Prerequisite (s): TG 386 (C or better)

III. Course Objectives:

Upon completion of this course, the students should be able to:

- A. Create documents necessary for effective and efficient project management
- B. Edit images for efficient use on websites
- C. Effectively utilize HTML, JavaScript and CSS in website development
- D. Design and develop appropriate navigation systems
- E. Design and develop pages that collect information from users via forms
- F. Apply knowledge of web-based animation as learned in TG 386 in the creation of animated banners/ads
- G. Design, develop and load a commercial-quality website onto a server.

IV. Expectations of Students:

- A. Class attendance and participation are required, both lecture and lab.
- B. Students are required to read the assigned chapters for discussion and lab.
- C. Assignments are designed to be completed in class. The instructor reserves the right to refuse completed work if student's attendance is inadequate to insure originality of work.
- D. Assignments will only be accepted on the due dates provided unless previous arrangements are made or student provides a written medical doctor's excuse.
- E. Students are expected to complete all assignments.
- F. Student work will be completed in accordance with Code of Student Conduct (<http://www6.semo.edu/judaffairs/code.html>).
- G. Assignments may not be turned in to department secretary.
- H. No assignments are to be turned in Finals' Week.
- I. Cell phones, pagers, etc. must be turned off in class.
- B. In a professional environment, work areas are kept clean. In keeping with a professional attitude toward fellow students, always clean your area before leaving.
- C. Headsets are not allowed during class time including lab time, unless approved by the instructor.
- D. Students are responsible for removing their personal work from the computers each day.

V. Course Content or Outline:

Topics Addressed in Course	Time on Topic
A. Site design and management in Dreamweaver	3 wks
B. HTML and CSS	2 wks
C. Web-bound image creation	1 wk
D. Web-based animation	1 wk
E. Javascript	2 wks
F. Interactivity	2 wks
G. Navigation models and interface design	2 wks
H. Project management documents	2 wks

VI. Textbook(s) and/or Other Required Materials or Equipment:

- A. Mohler, J. & Bowen, K. (2004). Exploring Dreamweaver MX 2004. New York: Thomson Delmar Learning.
- B. Anderson, R. A. (2006). Exploring the art and technology of web design. New York: Thomson Delmar Learning.
- C. CD-R disk (2) and a flash/jump drive

VII. Basis for Student Evaluation:

- A. Projects – 50%
Student projects will include the design and development of components used in the development of commercial website as well as a fully functional website that will be loaded onto a server.
- A. Midterm Exam/Quizzes – 20%
A midterm exam and frequent quizzes will be given to assess whether students are attending to the assigned readings and properly processing all material presented via lecture/demonstration.
- C. Final Exam/Project – 30%
The final exam will be given during the final class meeting and will be cumulative in nature. The final project will be completed over the course of 3 weeks and will include both the design and development of a site as well as documentation used for successful project management.
- D. Evaluation is based on a total cumulation of points earned on all assignments and reflected as a percentage of 100.

Grading Scale

A= 100 - 90%

B= 89 - 80%

C= 79 - 70%

D= 69 - 60%

F= Below 60%