

DIFD 141 – Introduction to Web Application Design

College of Business Administration
Section 001, three credit hours
Winthrop University
Spring, 2012

Instructor: Jim McKim.

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I. Office Hours:

8:30-12:00 TR

Please feel free to drop in, call me, or e-mail me to ask questions, schedule appointments, or just talk. Note that sometimes I will have meetings between 11 and 12:30 on Tuesdays and Thursdays and so will be unavailable on those occasions (about twice a month).

II. Texts:

Required text: *None*.

III. Course Objectives:

This course provides a practical introduction to the technologies that make up the World Wide Web. By the end of the course you will:

- Be able to describe how web pages are developed and served up to the public;
- Be able to describe how browsers request and receive web pages;
- Have developed client side applications using HTML, Cascading Style Sheets and javascript. Such applications will include dynamic web pages, including Graphical User Interfaces (GUIs)
- Be a competent beginning javascript programmer with knowledge of routines, loops, branching and arrays;

SACS Assessment Learning Objectives:

1. *Students can effectively use CSS and javascript to develop a small, technically sound web site. The Learning Activities for this objective consist of students building such a site through lab and HW assignments.*
2. *Students can effectively work with a partner to develop a client-sided web page. The Learning Activities for this objective consist of students using paired programming techniques on nearly every lab or HW assignment.*

Prerequisite: Either CSCI 151 or the combination of CSCI 101, CSCI 101A and CSCI 101P. Older catalogs list CSCI101F (photoshop) as a prerequisite and you should take that lab this term if you are going on to further Information Design courses, but it's not actually necessary for this course.

IV. Topics:

Week 1: Review of HTML, General web technology. W3C standards.

Weeks 2, 3: Advanced HTML, more on web technology, introduction to CSS

Week 4: More on CSS, introduction to javascript

Weeks 5, 6: Javascript functions, responding to events, introduction to the object model

Weeks 7, 8: Branching and looping in Javascript, animation, Midterm

Week 9: Strings and Arrays, more on the object model.

Week 10: Form checking.

Weeks 11 & 12: (if time) News Feeds and Digital Commerce

Weeks 12ff: Selected topics as needed for project

V. Grading:

<u>Components of Your Grade</u>	<u>Percentage of grade</u>
Numerous HW/Lab assignments	50%
Midterm exam	25%
Comprehensive Final Exam (scheduled for 11:30 a.m. Wednesday, April 25 th)	<u>25%</u>

Letter grades will be determined on a straight percentage basis. I will assign “whole” grades only and not use plusses or minuses as I believe such usage hurts students more than it helps.

<u>Letter Grade</u>	<u>Total Percentage</u>
A	90-100
B	80 - < 90
C	70 - < 80
D	60 - < 70
F	< 60

Last day to withdraw from this course is **March 7th**. Later withdrawal requires documented extenuating circumstances.

VI. Course Policies:

A. Attendance

Students are expected to attend class. Be aware that there will be a grade associated with nearly every lab class and that you are unlikely to succeed in lab unless you attend lecture.

B. Teamwork

You will usually have a partner for lab work. We'll rotate partners every week or two.

C. Homework/Labs

Other than reading, most work will take place in the lab. If you are unable to complete a lab during the scheduled time, and this will happen more and more often as the course goes on and we have more substantial work to do, you are expected to meet with your partner outside of class and complete the lab before the next class.

D. Decorum

You are here with the goal of becoming professionals and as such professional courtesy is expected. Any behavior that disrupts the class is out of courtesy. This includes, but is not limited to, any electronic device that makes a noise or takes your attention away from the business at hand.

E. Homework and the two hour rule

If you have worked on the same problem for more than two hours, **stop!** And get help from someone, most likely your current partner or me.

F. Syllabus change policy

We reserve the right to change and/or modify the syllabus, schedule, and course requirements as may be required by unforeseen circumstances.

Students with Disabilities: If you have a disability and need classroom accommodations, please contact Gena Smith, Coordinator, Services for Students with Disabilities, at 323-2233, as soon as possible. Once you have your professor notification letter, please notify me so that I am aware of your accommodations.