MONTGOMERY COLLEGE
Rockville Campus
CA273 Advanced Professional Web Technologies
Computer Applications Department

Instructor Information

Name: Zac Gordon

Mailbox Location: HU16

Email: zgordon@dabrook.org (faster)

Course Website: http://dabrook.org

Office Location: HU 313

Office Hours: Thursday before/after class or by appointment.

Zachary.Gordon@montgomerycollege.edu (official)

Student Web Space:
FTP accounts will be provided for all students in the first weeks of class.

Course Information

Semester: Spring 2011
Class time: Thursdays, 6:30pm – 9:10pm

Course CRN: 32789
Class location: HU 313

Course Description

This course surveys latest Web design and development skills, including HTML5, CSS3, Mobile Design, JavaScript, server-side programming, and Content Management Systems. Students will also learn common web tools like Dreamweaver. Students will build a portfolio site that works on a range of devices. Prerequisites: CA272 or successful completion of the departmental skills assessment.

Course Materials
The course guide provides an overview of all of the content the course covers and will serve to tie together the variety of topics the course covers. Additional resources will provided on a week by week bases.

Software and Hardware Needs
- Mac or PC computers with internet connection
- Web Browsers (Chrome, Firefox, Opera, Safari, Internet Explorer)
- Web page editor that fosters the development of valid HTML, CSS, JavaScript, and Server Side code
- Web page debugging and evaluation tools such as Firebug and the Web Developer Toolbar for Firefox

CA273 Advanced Professional Web Technologies

- FTP Software

Course Grading:

Course Grades: <59=F, 60-69=D, 70-79=C, 80-89=B, 90-100=A

Category	Weight
Midterm	30%
Final Project	50%
Homework	20%

In written assignments, students are expected to demonstrate accurate use of English grammar and punctuation. If not, assignments may be returned until accurate. The Writing Center will provide assistance. Assignments should not be handwritten.

Class Policies

1. **Missed Tests and Quizzes:** Tests are announced far in advance. NO MAKEUPS without a doctor's excuse. If the final exam is not taken, the student will receive a grade of F for the course.

Course Overview:

01 - Web Content

        "Content is King"

        Site architecture

        Page layouts

        File structure

        Where SEO comes in

02 - HTML5

        Semantic Markup

        How is it different than other versions

        How we can start using it

        How we will be able to use it completely?

03 - CSS3

        The modular, browser led, roll out plan

        Support for the most common browsers

        Demos and lab exercises

04 - Designing across devices

        From desktops to mobile to native app development to print

        Give examples of each

        Talk about how principals of design apply to each

05 - Responsive Design

        Review of Media Queries

CA273 Advanced Professional Web Technologies

Responsive Web Design Lab

06 - Midterm Project Lab

Personal site in 3 formats: screen, mobile, print
Must submit sketches, Photoshop comps, or Wireframes
Short explanation for how you adapted the design for the device

** - MIDTERM Presentations and Critiques

Discuss format for critiques
Present your projects
Meet in small groups to discuss sites
Make last minute edits

07 - Forms

What to ask for? How to ask it?
Accessibility
Styling buttons

08 - Validation

Security risks with forms
Front-end validation
Back-end validation
Validation UI best practices

09 - JavaScript

What is it?
Front-end validation

10 - Server Side Langauges

Languages
Back-end validation

11 - Hosting 101

12 - CMS

The big ones
Other cools CMS
Demos

13 - .htaccess, submitting google sitemaps, google analytics
14 - Tools for running a web site

** - FINAL - Students will present the culmination of all of the labs and homework assignments: a portfolio site built with HTML5 and CSS3 that displays across a range of devices (screen, iPhone, print) and has a validating and working contact form.

CA273 Advanced Professional Web Technologies

Academic Dishonesty:
Events of academic dishonesty will receive an automatic zero and will result in failure of the course.

Lack of Prerequisites:
A student who attempts this course without having the required assessment levels or passing prerequisite(s), does so at his/her own risk of failing the course.

Homework Instructions:
All assignments must be posted by noon on the Sunday listed in the Due Date column (generally the Sunday following the week's assignment). Homework assignments submitted after such time will receive 10% off for the first week late and no credit for more than one week late.

All homework must be clearly linked to your course homepage with valid/working links to receive credit.

Article reviews must be linked to your homepage under the appropriate assignment link.

Final Project:
Minimum five page site based on a Smithsonian exhibit.

Make-Ups:
I do not allow make-up exams. If you miss an exam, you will take a comprehensive final at the end of the semester and it will count for the missed exam. The only exception to this is when a student notifies me one week prior to the exam, provides a valid reason with extenuating circumstances, and agrees to take the exam earlier than the scheduled time.

Class Attendance:
The following statement is in the Student Handbook and will be enforced: "Students are expected to attend all class sessions. When a student's absences are about to equal or have equaled the number of class sessions per week, the instructor may issue a warning; if the student is absent again, the instructor may drop the student from the class."

It is important that you attend every class. You will be responsible for all work assigned whether you are present or absent.

In the event that you do miss a class, it is your responsibility to obtain the missed information from a fellow classmate. Therefore, I highly recommend that you find **at least two study buddies** in this class to confer with when class information is missed.

Please make every effort to be on time for class.
Computer Lab Usage/Privileges:
Computer labs are available for course related work.

Course Location	Lab Location	Overflow Lab	Office Location/Phone
HU building	H314	H312	H307/ 279-5187
CS building	CS25/26 & CS21A	H314	CS19 / 279-5156

Labs are open Monday through Friday 8:30 am - 10:00 pm, Saturday 8:30 am - 4:00 pm, and Sunday 8:30 am - 2:00 pm. Labs open on the first day of the semester and close on the last day of

CA273 Advanced Professional Web Technologies

finals and all College holidays. Any changes in hours will be posted. Rules and guidelines governing the use of labs are published by the Computer Lab Offices.

Policies:

All students are expected to comply with the Student Code of Conduct. Students should refer to the Student Handbook for the official wording of all academic, classroom, and college wide policies. All such polices will be strictly enforced in the classroom as stated in the Student Handbook.

For complete statement of Academic Regulations and Student Code of Conduct visit http://www.montgomerycollege.edu/departments/academicevp/Student_PandP.htm

College E-mail:

Student e-mail (montgomerycollege.edu) is the official means of communication for the College and for this class. It is expected that you check your student e-mail daily. You are responsible for information and announcements that will be sent to you from the College and from the course instructor

Disabilities:

Any student who may need an accommodation due to a disability, please see me either after class or during my office hours. A letter from Disability Support Services (122CB) authorizing your accommodation will be needed. The DSS Web site can be found at http://www.montgomerycollege.edu/Departments/dispsvc/.

Any student who may need assistance in the event of an emergency evacuation must identify themselves to the Disability Support Services Office. Guidelines for emergency evacuations for individuals with disabilities are found at: http://www.montgomerycollege.edu/Departments/dispsvc/evacprocedures.htm.

Weather Alerts:

Occasionally it becomes necessary to delay the opening of school, send students home early, or close the College entirely because of bad weather. Area radio stations broadcast information about school closings or delayed openings beginning around 6 a.m. If Montgomery College plans to close early, radio and TV stations will broadcast the message. The stations DO NOT broadcast "open as scheduled".

For recorded announcement call (301) 217-8800 or (301) 279-5310 or see the Montgomery College web site is http://www.montgomerycollege.edu/

Class Cancellation:

In the event that class must be cancelled, see the class site for information regarding alternate assignments.

CA273 Advanced Professional Web Technologies