Course Description

This course introduces interactive and responsive web development using a client-side language like JavaScript. Basic programming concepts common to almost all programming languages, including sequence, selection, and iteration, as well as functions, arrays, and string manipulation, form the basis of the course.

The course will require considerable effort in designing, coding, and debugging interactive web pages. While the concepts taught in this course are relatively simple, the development of interactive web pages can be challenging and time consuming.

Topic List

Basics of the Web
HTML5 Basics
Form Handling
URLs and Links
CSS Basics
Basics of Images
Document Object Model
Variables, Constants, and Data Types
Simple Functions
Arithmetic, Relational, and Logical Operators
Strings
Advanced Functions
Designing Functions as Black Boxes
Sequence, Selection, Iteration
Arrays
jQuery
Course Objectives

- The student will be able to design and implement web pages.
- The student will be able to demonstrate knowledge of website development concepts and terminology.
- The student will be able to explain and utilize the fundamental aspects of all elements found on web pages.
- The student will be able to demonstrate knowledge of HTML5 and CSS3.
- The student will be able to explain and utilize the process of creating content for web pages including text, images, animation, audio, and video elements.
- The student will be able to design and implement interactive web pages.
- The student will be able to list the fundamental concepts of programming languages.
- The student will be able to explain each of those fundamental concepts.
- The student will be able to explain and utilize a wide range of the features available in the JavaScript programming language.
- The student will be able to write complex interactive scripts using JavaScript.
- The student will be able to analyze programming requirements in order to understand what data and processes are involved in the system.
- The student will be able to design a modular approach to satisfy those requirements.
- The student will be able to organize program code in web pages to implement the design.
- The student will be able to verify that the results obtained satisfy the original requirements.

Exams

You must have a 60% or higher average on class exams in order to be eligible to earn a C- or above grade for the course. In other words, unless you average a 60% or higher on the exams your course score will be at most a D.

Make-Up Quizzes or Exams

No make-up exams or quizzes will be given, regardless of the reason for absence. Instead, a comprehensive exam will be given at the end of the semester to those students who have missed an earlier exam. The grade on the comprehensive exam will replace at most one zero score for a missed exam. It may be possible to make arrangements to take an exam early if there is a valid reason. In lieu of makeup quizzes, the lowest quiz grade will be dropped.

Final Exam

The scheduled date for the final exam is shown on the online class schedule. You must take the exam on the scheduled date.

Assignments

Assignments that are not submitted on the due date will be subject to grading penalties of 20% per day. Assignments cannot be graded until all students have submitted their work, so prompt submission is essential. Once assignments have been graded, late submissions will not be accepted.

Grading Rubrics

Grading rubrics are available for assignments in order to provide students with a checklist-like structure with which to assess assignments. This gives students the opportunity to “grade” their assignments before the professor does. If you notice any contradictions between the rubric and the assignment, notify the professor immediately for guidance.

Practice Exercises

Practice exercises are provided to help students gain additional hands-on experience. They are required because they cover some topics/skills that may not be discussed in the lectures.

Extra Credit

No extra credit will be given. Therefore, it is important to begin the semester with the knowledge that exams and assignments will constitute your entire grade.

Tardiness

Students are expected to arrive for class and be in their seats by the scheduled beginning of class. Repeatedly coming to class late disrupts the teaching/learning environment in the classroom and adversely affects the other students in the class.

Policies & Procedures

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>50%</td>
</tr>
<tr>
<td>Exams</td>
<td>40%</td>
</tr>
<tr>
<td>Quizzes/Assignments</td>
<td>10%</td>
</tr>
</tbody>
</table>

Course Objectives

- The student will be able to design and implement web pages.
- The student will be able to demonstrate knowledge of website development concepts and terminology.
- The student will be able to explain and utilize the fundamental aspects of all elements found on web pages.
- The student will be able to demonstrate knowledge of HTML5 and CSS3.
- The student will be able to explain and utilize the process of creating content for web pages including text, images, animation, audio, and video elements.
- The student will be able to design and implement interactive web pages.
- The student will be able to list the fundamental concepts of programming languages.
- The student will be able to explain each of those fundamental concepts.
- The student will be able to explain and utilize a wide range of the features available in the JavaScript programming language.
- The student will be able to write complex interactive scripts using JavaScript.
- The student will be able to analyze programming requirements in order to understand what data and processes are involved in the system.
- The student will be able to design a modular approach to satisfy those requirements.
- The student will be able to organize program code in web pages to implement the design.
- The student will be able to verify that the results obtained satisfy the original requirements.

Final Grade Determination

<table>
<thead>
<tr>
<th>Type</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Assignments</td>
<td>50%</td>
</tr>
<tr>
<td>Exams</td>
<td>40%</td>
</tr>
<tr>
<td>Quizzes/Assignments</td>
<td>10%</td>
</tr>
</tbody>
</table>
**Academic Integrity**

Academic integrity is expected at Idaho State University and the College of Business. All forms of academic dishonesty, including cheating and plagiarism, are strictly prohibited, the penalties for which range up to permanent expulsion from the university with “Expulsion for Academic Dishonesty” noted on the student’s transcript. If you are unclear as to what constitutes academic dishonesty, read the College of Business Policy on Academic Integrity and the ISU Academic Integrity and Dishonesty Policy.

Some examples of dishonest behavior include, but are not limited to

- Working on individual assignments with other students.
- Copying material from a source without attributing the source.
- Allowing another student to copy your work and then submit it as his/her own.
- Allowing someone else to complete your assignments for you and then passing off the work as your own.
- Bringing unauthorized material or devices to an exam. Note that you do not have to be caught using them - just having them is an offense.
- Copying from another student's exam.
- Communicating with someone other than the professor during an exam.
- Removing the exam from the classroom.
- Acquiring exam or assignment answers or questions.
- Taking an exam for someone else or having someone take an exam for you.
- Performing any act designed to give unfair advantage to a student or the attempt to commit such acts.

**Professional Demeanor**

Part of receiving an education from a professional college is learning about your chosen field. Another part is learning to act like a member of that field. Professional Demeanor is in many ways the most important part of the learning process. How you act affects not only how others perceive you, but can also result in rewards or, alternatively, negative consequences. It will also affect your class grade.

The grade that you receive in this class will consist of two parts: the objective portion that is a calculated average of all assignments, quizzes, exams, etc., and a subjective portion that is based on your professional demeanor.

**Final Grade = Calculated Grade * PDM**

The professional demeanor multiplier (PDM) can range from 0.85 to 1.00, and will be multiplied by your calculated average. Students will be assigned a PDM of 1.0 unless behaviors are exhibited that signify unreadiness for the workforce.

Students will demonstrate professional demeanor and commitment in a variety of ways: energetic and respectful participation in class, willing acceptance and completion of obligations; punctuality; and not whining. Professional demeanor includes several subjective items such as attendance, positive attitude, preparation, appropriate language and respectfulness to other students and the professor. Students are expected to come to class prepared, participate in activities and discussions, and treat others with respect in the classroom, which includes listening interactively to classmates and the professor, and respecting others’ viewpoints.

Do not text, check social media sites, or eat meals during class.

Some students enroll in a course already having experience in the subject area, and while contributions to discussions are welcomed, arrogance and unwillingness to learn or comply with professor directions will not be tolerated.

**Attendance**

Attendance in class is integral to the learning process. Students are expected to attend every class. Some material may only be covered in class and not made available on the course website. Students should notify their instructors by voicemail or email when they are absent from class.

Students are responsible for all material covered and announcements made within classes, even when absent from classes. Students should rely on classmates and online materials for any course content that is missed.

More than three absences may result in the reduction of one letter grade on the final grade. If a student misses the equivalent of three weeks or more of class, no credit may be received for the course. It is the student’s responsibility to contact the professor to check on their status if more than three classes are missed.

Students are expected to remain for the entire duration of the class.
Digital Device Policy
Increasing numbers of students are using digital devices to take notes in class. To maintain an atmosphere conducive to learning in the classroom and to avoid distracting others set your device so that no audible signal can be heard.

Restrict use of digital devices to note taking or class-related web sites. Random browsing, social networking, playing games, and exchanging email are discouraged. If you engage in unauthorized communication or entertainment as described above you will be marked absent. Repeated violations of this policy will result in letter grade reductions.

If a guest speaker comes into the class, please give the person your full attention and close all digital devices.

ICS Facebook Page
The Informatics and Computer Science Facebook page can be joined at www.facebook.com/groups/5643817087/.
The page is where we post major announcements as well as information about guest speakers and internships for Informatics and CS majors.

Student Organization
There are both immediate benefits and long term benefits to getting involved in the student organization, including career preparation, networking, learning things not taught in class, and giving back to your fellow students. Visit http://www.facebook.com/groups/59810306279/ for the Student Organization Facebook page.

Reading Materials
Students are responsible for thoroughly reading the course syllabus and understanding its content.

Students are expected to read the assigned materials (textbooks or online notes) prior to the class day with which it is associated and to actively participate in class discussions. Unannounced quizzes may be given over reading assignments if students don't appear to be reading the material in advance.

Student Notification
All students are responsible for checking the web page and their email on a regular basis, preferably daily, for notification of any class scheduling changes or assignment clarification. Notice of quizzes or assignment clarifications may be posted late at night.

Instructor Availability
The instructor will be available during posted office hours, but additional efforts are made to increase accessibility to the students. If the instructor is not available at the telephone number above, the student can leave a detailed voicemail message. However, the instructor's email is checked throughout the day and often the student will get an immediate response to questions submitted by email. Email is usually the most reliable means of contact.

Email Etiquette
As noted, email is the best way to contact the professor, but please DO NOT use chat or SMS shorthand in your messages. Use full words. While shorthand is fine for casual messages, you are in a professional environment and need to present yourself as such.

Course Fees
Course fees are utilized to pay for lab assistants who can tutor, review work, explain concepts, assist in grading, and perform other duties to help students be successful in their classes.

Special Needs
Our program is committed to all students achieving their potential. If you have a disability (physical, hearing, vision, psychiatric, or learning disability) that may need a reasonable accommodation, please contact the ADA & Disabilities Resource Center located in the Rendezvous Complex, Room 125, 282-3599, as early as possible.

Closed Week Policy
Information about the ISU Closed Week Policy can be found online. Note that the policy does not prevent the presentation of new material during closed week.

Technology assistance
For technology assistance contact the Help desk at 282-4357 or http://help.isu.edu/

Tutorial assistance
Contact http://www.isu.edu/departments/university-tutoring to request a tutor.