**Information Systems 145**

***Website Technology***

**Spring 2020**

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## Course Description

Today’s websites display a wide array of multimedia content and provide an interface for user transaction processing. Underlying what we see are several languages that enable Web-based document presentation and data processing. The Hypertext Markup Language (HTML) provides the foundation for websites and is used to structure document content. Cascading Style Sheets (CSS) add additional display capabilities and separate content from styles to simplify the process for updating websites. HTML and CSS do not support dynamic content display, but JavaScript is one language that can be incorporated into HTML source code to add programming capabilities and support user interactions with websites.

The purpose for this course is to learn about some of the most common current website technologies. The course is organized into three sections:

1. Introduction to HTML5 and CSS3
2. Advanced HTML5 and CSS3
3. Introduction to JavaScript

**Textbook & Class Notes**

* Patrick M. Carey, *New Perspectives on HTML5, CSS3, and JavaScript*, 6th Edition, Cengage, 2018.
* Class Notes and Handouts – <http://faculty.cbpa.drake.edu/strader/is145.htm>

**Grading**

Exam 1 190 A 920-1000 C+ 780-799

Exam 2 190 A- 900-919 C 720-779

Exam 3 250 B+ 880-899 C- 700-719

(6) Programming Projects 370 B 820-879 D 650-699

B- 800-819 F 0-649

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Total 1000

**Class Schedule**

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| --- | --- | --- | --- |
| **Month** | **Date** | **Day** | **Topic(s)** |
|  | | | |
| **January** | 28 | T | Course introduction  Tutorial 1 – Getting Started with HTML5 |
|  | 30 | Th | Tutorial 1 (cont.)  Tutorial 2 – Getting Started with CSS  Assign Project 2 |
|  | | | |
| **February** | 4 | T | Tutorial 2 (cont.) |
|  | 6 | Th | Work on project |
|  | 11 | T | Tutorial 3 – Designing a Page Layout |
|  | 13 | Th | Project 2 due, Exam review |
|  | 18 | T | **EXAM 1 (Tutorials 1, 2 and 3)** |
|  | 20 | Th | Tutorial 5 – Designing for the Mobile Web  Assign Project 5 |
|  | 25 | T | Work on project |
|  | 27 | Th | Tutorial 6 – Working with Tables and Columns  Assign Project 6 |
|  | | | |
| **March** | 3 | T | Work on projects |
|  | 5 | Th | Project 5 due  Tutorial 8 – Enhancing a Website with Multimedia |
|  | 10 | T | Project 6 due, Exam review |
|  | 12 | Th | **EXAM 2 (Tutorials 5, 6 and 8)** |
|  | 16-20 | M-F | NO CLASS – SPRING BREAK |
| **March 23 to May 7** | Online | | View Online JavaScript Tutorials  Read Tutorial 9 – Getting Started with JavaScript  Work on Project 9  Project 9 due Tuesday, April 14  Read Tutorial 10 – Exploring Arrays, Loops, and Conditional Statements  Work on Project 10  Project 10 due Tuesday, April 28  Read Tutorial 11 – Working with Events and Styles  Work on Project 11  Project 11 due Tuesday, May 5  Review for Exam 3 |
| **May** | 11 | M | **EXAM 3 (Tutorials 9, 10 and 11) 2-3:50pm Central Time** |