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| **Course Number** | **ICR130** | | |
| **Course Description** | Students will learn how to create all of the key components required in a 21st century commercial web site. Students will learn to apply their HTML and CSS skills in a commercial context. | | |
| **Course Prerequisites** | ICR120 Introduction to HTML and CSS | | |
| **Textbooks Required** | CSS 3.0 user manual from W3C | | |
| **Special Equipment** | NA | | |
| **Course Duration** | * 60 In school hours, 3 weeks | | |
| **Suggested Homework** | * 30 hours | | |
| **Delivery** | * In class lecture * Presentations * Directed activities | | |
| **Learning Objectives** | **Upon successful completion of this course the student will be able to:**   * Define style sheet language. * Describe the purpose of a cascading style sheet. * Describe the function of a cascading style sheet in the presentation of a webpage and website. * Describe how CSS2.0 and 3.0 enable multiple webpages to separate content from presentation. * Describe how CSS2.0 and 3.0 reduce the complexity and repetition in structural content and its presentation * Apply CSS in the creation of webpages and websites * Classify ‘selectors ‘ * Create CSS classes * Apply CSS classes to DIV tags * Create layered web sites using DIV tags * Create inline CSS, internal and external CSS files | | |
| **Assessment** | **Type** | **Value %** | **Class** |
|  | Quiz 1 | 10 | 5 |
|  | Assignment 1 | 10 | 11 |
|  | Portfolios | 30 | 2nd/3rd week |
|  | Midterm Exam | 20 | 8 |
|  | Final Exam | 30 | 15 |
| **Notes** | **A final grade of 60% is required to pass this course.** | | |
| **Course Breakdown** | **Topics to be covered** | | |
| Day 1 | **Lecture: Introduction to CSS documents**   * Cascading style sheets – a definition * What are cascading style sheets used for * Simple color and font style * Replacing deprecated tags with style * Inline CSS styles inside tags * Using <STYLE> tag * Creating an external CSS file and link it to HTML * Imported CSS | | |
| Day 2 | **Lecture: Introduction to Selectors**   * DOM Basics * Types and Descendants * Universals * Attributes * Children and siblings | | |
| Day 3 | **Lecture: Selectors Application**   * Class * ID * Pseudo class * Pseudo Element * Combination | | |
| Day 4 | **Lecture: Properties and Color**   * Color Keyword * RGB Color * Hexadecimal Colors * Measurement systems   + Absolute   + Relative * URLs | | |
| Day 5 | **Lecture: Introduction to Topography**   * Cascade Origin * Weight * Specificity and placement * Working with Fonts   **Quiz 1 at the start of the class to be marked in class** | | |
| Day 6 | **Lecture: Typography Applied**   * Fonts * Text Decoration * Vertical Spacing * Paragraph formatting | | |
| Day 7 | **Lecture: Introduction to ‘The Box Model’**   * Concept of the box model * Different types of Boxes * Display * Size and overflow | | |
| Day 8 | **Mid Term** | | |
| Day 9 | **Lecture: The Box Model Refinements**   * Padding * Borders * Margin | | |
| Day 10 | **Lecture: Web Page Layout**   * Float layout basics * Positioning   + Relative   + Absolute * Overflow | | |
| Day 11 | **Lecture: Lists and Images**   * List styles and list bullets * Creating a Navigation Bar only with CSS * Pixie method * Background images * No script roll overs * Rounded corners   **Assignment 1**  **Due: Start of Class 14** | | |
| Day 12 | **Lecture: Tables**   * Tables and Rows * Cells * Pure CSS based table | | |
| Day 13 | **Lecture: Forms and CSS with JavaScript Part 1**   * Style Form Elements * Form layout styles * Targeting CSS | | |
| Day 14 | **Lecture: CSS with JavaScript Part 2**   * Onload and user interaction * Menu Bar revisited, this time with JavaScript * Creating a scrolling picture pane | | |
| Day 15 | **Final Exam** | | |