|  |  |
| --- | --- |
| **General Course Information** | |
|  | **CIS 134-70 Web Development I**  Location: Main QCC Campus Room: S123  Fall 2023  Dates: September 7, 2023 – December 14, 2023. |
| Days/Time: | Thursday 7 - 9:50pm |

Please be aware that this is a fast paced course and therefore **requires additional time spent outside the classroom.**

|  |  |
| --- | --- |
| **Prerequisites** | |
| **Courses** | CIS 105 or CIS 111 |
| **Skills** | Basic understanding of the internet. |

|  |  |
| --- | --- |
| **Instructor Information** | |
| **Name** | Ryan DesRoches |
| **E-mail** | [rdesroches@qcc.mass.edu](mailto:rdesroches@qcc.mass.edu) |
| **Phone (M)** | 508-944-9793 (best number to reach me). |
| **Office Hours:** | By appointment |

**Slack:**  https://cis134fall23.slack.com/

|  |  |
| --- | --- |
| **Course Information** | |
| **Course Title** | **Web Page Development I** |
| **Course Description[[1]](#footnote-1)** | This course focuses on designing Web sites using HTML5/XHTML and CSS3 along with development tools such as Notepad++. Topics include creating links, image maps, using grid-based layout for laying out pages, positioning elements, applying CSS for graphic design, flexbox for mobile web pages, media queries, tables, client-side forms, and insertion of audio and video files. Validation of web pages using transitional DTD, strict DTD will also be discussed. Students will work on individual assignments to create web pages/sites. |

|  |  |
| --- | --- |
| **Required Text:** | A book cover with yellow and green objects  Description automatically generatedNew Perspectives HTML5 and CSS 8th Edition By Patrick Carey ISBN: **ISBN 978-0-357-10714-0** |
| **Grading:** | ***How Points and Percentages Equate to Grades***   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 100-95 | A |  | 76-73 | C | | 94-90 | A- |  | 72-70 | C- | | 89-87 | B+ |  | 69-67 | D+ | | 86-83 | B |  | 66-63 | D | | 82-80 | B- |  | 62-60 | D- | | 79-77 | C+ |  | < 60 | F |  |  |  | | --- | --- | | GRADE RANGE ASSESSMENT FACTORS OF PROJECT WORK | | | A range (90 – 100) | * Excellent understanding of assignment. * Outstanding detail and explanations. * Excellent organization of work. * Excellent presentation of work. * Incorporates lessons from text, lectures, outside readings, and/or cognitive reasoning. * Factual evidence easily demonstrated with accuracy, proper grammar, creativity, and clarity of thesis. | | B range (80 – 89) | * Good to Very Good understanding of assignment. * Good to Very Good detail and explanations. * Good to Very Good organization of work. * Good to Very Good presentation of work. * Incorporates some material from text, lectures, outside readings, and/or cognitive reasoning. * Factual evidence partly inaccurate or missing; grammatical or mechanical writing errors are more evident; and clarity of thesis is not as sharp as “A” range work. | | C range (70 – 79) | * Satisfactory/Basic understanding of assignment. * Satisfactory/Basic level of detail and explanation. * Satisfactory/Basic organization of work. * Satisfactory/Basic presentation of work. * Incorporates little material from text, lectures, outside readings, and/or Factual cognitive reasoning. * Evidence is partly incomplete, inaccurate, missing, and/or not specific to thesis; errors in language, usage, or grammar are more common. | | D range (60 – 69) | * Below Average understanding of the assignment. * Below Average level of detail and explanation. * Below Average organization of work. * Below Average presentation of work. * Incorporates virtually no material from text, lectures, outside readings, and/or cognitive reasoning. * Factual evidence is erroneous, missing and/or replaced with personal beliefs or views without supporting data; no attempt to frame an argument or thesis; numerous errors in language, usage, and grammar. | | F range (0 – 59) | * Incomplete work, work ignored, and/ or not addressed. * Project may be dishonest and/or plagiarized. * Project completed beyond assigned deadline or due date. | |
| **Final Grade:** | Your final grade will be determined by:  **Attendance/Class Participation:** 5%  **In-Class Labs:** 15%  **Exams/Tests (5 total):** 30% (lowest quiz grade will be dropped)  **Homework/Case Studies (5 Total):** 40%  **Final Project:** 10%  All class work assignments must be handed in at the beginning of class. 10% will be taken off for each week the assignment is late. The drop-dead date for all assignments and assessments is 2 weeks after their original due date (unless otherwise noted).  Participation includes coming to class on time, being prepared, participating in class discussions and class lab work.  If you are considerably late and/or forget your text, and/or any other required materials necessary to perform the classroom activity you will be marked absent!  *Learning-Projects/Laboratory Activities and Homework:*  There will be 10% deducted for each class an assignment is late. An assignment must be handed in no later than two weeks after the original due date, or else it will not be accepted and will be marked as a zero.  The evaluation of all homework and class work will be based on accuracy, neatness, format and overall quality. All assignments must be uploaded to Blackboard unless otherwise noted.  All in-class labs are due when the homework for the section for those labs are due (i.e. labs related to Chapter 1 are due when the Chapter 1 homework is due).  Please be aware that this is a fast paced course and therefore **requires additional time spent outside the classroom.**  **Homework Grading Breakdown:** 90% for functionality (does the assignment work?) 10% Code Quality (is the code readable, formatted correctly?)   * For any missed requirement (instruction) there will be 5 points taken off. * 2-4 points will be taken off for attempting the requirement, but it not working. * 1pt off for minor typos.   PLEASE ask questions via email or the slack channel if you are stuck with a problem. **YOU ARE RESPONSIBLE** for making the homework look good and function as described in the book, however resources (Help) are available to you IF YOU ASK.  You MAY help each other with the assignments, but your code must be your own. I highly encourage “code reviews” with your peers to help catch possible errors and mistakes. A simple typo can make the difference between your code working and not working. |

|  |  |
| --- | --- |
| Late Assignments and Assessments | NOTE: No homework assignment will be accepted more than **2 weeks late** or after the last regular scheduled class [Wednesday, May 2] (whichever comes first). All Grades will be posted to Blackboard no later than 2 weeks after an assignment/quiz is handed in. If you find yourself falling behind please contact me ASAP.  There will be **NO MAKEUP QUIZES/EXAMS**! Arrangement must be made **prior to exam dates** for alternate exam dates. |
| Class Interaction | **SLACK/EMAIL:** Email and Slack updates will be sent on a regular basis.  **GROUND BASED OFFICE HOURS:** All meeting times may be arranged by appointment.  **ATTENDANCE POLICY:** Students are expected to attend all classes and are responsible for all assigned work. All students are expected to be on time and prepared to participate in discussions and labs. Attendance will be taken at the beginning of each class.  Students are expected to be in class on time. Any student that is more than a half-hour late to class will be marked as “absent” for the class, unless they have first cleared it through the instructor.  If you know you are going to be absent ahead of time, please make arrangements with the instructor to complete assignments.  Students will be allowed one absence (unless otherwise agreed upon) without it affecting their grade. If a student misses more than four classes (unexcused) in this semester, they will lose a full 5% off their final grade.  Even when absent, students are responsible for finishing all in-class lab assignments.  **CELL PHONE AND PDA’s** (IPads and IPods included) MUST be kept on silent or turned off during the class! If you must take a call, please excuse yourself from the classroom to take it so you do not disrupt the rest of the class |
| Class and Home Work | |  | | --- | | Classes will be a mix of lecture and in-class lab work. The labs will follow the material in the book and will also be done via overhead projector by the professor. Students are required to bring the book to each class, as the labs will be taken directly from the book.   Lab work is “open book” learning where the student can use any reference material to help them with the lab assignment. Students are also encouraged to ask the professor and other students for help if they need to. It is not uncommon for me to assist a student one-on-one and I highly encourage anyone that is having problems to ASK FOR HELP. The Labs are a place to make mistakes and correct them!  All students will start the semester with the average of 3 class participation points. Students that consistently ask questions and/or help other students will earn points and will finish the semester with their full 5 participation points. Students that disrupt the lab assignments or the class lecture will see their class participation grade reduced and may receive additional disciplinary action as specified by QCC.  **Homework:** All students will be required to keep up to date with the required readings for each class. In addition there will be instances where students will be required to perform assignments on their own time (i.e at home). These assignments are outlined at the end of this Syllabus. | |

|  |  |
| --- | --- |
| **Plagiarism** | |
|  | *Plagiarism: (from the College Policies section of the Student Handbook)*  Plagiarism means taking someone else’s idea or words and presenting them as one’s own. The offense can take many forms including cheating on a test, passing in a paper taken from the Internet or from another student, or failing to properly use and credit sources in an essay. Sometimes the issue is subtle, involving getting too much help on an assignment from someone else. In every instance, plagiarism means cheating both oneself and the owner of the source. Since the cheating sabotages a student’s learning experience, consequences range from no credit for the assignment to failure for the course and possible expulsion from the college.  Any student considering plagiarism should recognize the consequences and should consider alternatives. Students uncertain about what constitutes plagiarism may request help from faculty or from appropriate college services. |
| **Special Needs/Accommodations** | |
|  | Every effort will be made to meet the individual needs and various learning styles of students in this course. It is of the utmost importance that you inform me at the beginning of the semester of your particular needs. If you have concerns about this course, please make an appointment with me. If your concerns are about a learning disability or other specific need, please make an appointment with me and with a learning specialist at The Q/BlackboardCC Disabilities Service Office, room 246A. All information is strictly confidential. |

|  |
| --- |
| **Student Learner Outcomes / Objectives:** |

1. **Chapter 1: Getting Started With HTML5**

Topics and Objectives:

* A History of HTML
* Jobs relating to Web Development: SEO, Analytics, Social Media and More!
* HTML5 attributes and elements. What is the Semantic Web?
* The Head Element: META Tags, SEO, Scripts
* The Body Element: Sectioning Elements VS Inline Elements
* Working with images in HTML
* Coding Special Characters
* Working with Lists
* Linking to pages and other files.

## Chapter 2: Getting Started with CSS

Topics and Objectives:

* Introduction to CSS/Types of Stylesheets
* Building Style Rules
* Working with Color
* Understanding Progressive Enhancement
* Contextual and Attribute Selectors
* Working with Fonts/Text
* Absolute VS Relative Sizes
* Understanding the Box Model
* Pseudo Classes and Pseudo Elements

## Chapter 3: Designing a Page Layout

Topics/Objectives:

* Understanding the display property
* Understanding pros and cons of various layout implementations
* Floating content and the issues with floats
* Working with Grids
* CSS Frameworks
* Using Positioning Styles and Stacking Elements

## Chapter 5: Designing for the Mobile Web

Topics/Objectives:

* Understanding Responsive Design
* Media Queries
* Creating a Mobile Design
* Flexbox Layouts
* Print Styles and Page Breaks

## Chapter 7: Designing a Web Form

Topics/Objectives:

* Introduction to Web Forms
  + Parts of a form.
  + How they interact with Server Side Code/SQL
* Creating a Web Form
* Creating Form Elements
* Styling a Web Form
* Defining Default Values and Placeholders
* Data validation
* Introduction to Regular Expressions

## Chapter 4: Graphic Design with CSS

* Working with Backgrounds and Borders
* Sizing and Clipping an Image
* Using Multiple Backgrounds
* Using Shadows and Gradients
* Understanding and using Transparency
* Transformations and Filters

|  |  |
| --- | --- |
| **Course Grid/Summary** | |
|  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | # | Day | Date | Topic | Due | | **1** | **Thurs** | **9/7** | **Course Introduction Project Management in Web Introduction to HTML** |  | | **2** | **Thurs** | **9/14** | **CH 1 Getting Started With HTML5** | **Read CH 1** | | **3** | **Thurs** | **9/21** | CH 1 Getting Started With HTML5 CH 2 Getting Started with CSS | **Read CH 2** | | **4** | **Thurs** | **9/28** | **CH 2 Getting Started with CSS**  **CH 1 QUIZ** |  | | **5** | **Thurs** | **10/5** | **CH 2 Getting Started with CSS** | **CH 1 Homework Due** | | **6** | **Thurs** | **10/12** | **CH 3 Designing a Page Layout**  **CH 2 QUIZ** | **Read CH 3** | | **7** | **Thurs** | **10/19** | **CH 3 Designing a Page Layout** | **CH 2 Homework Due** | | **8** | **Thurs** | **10/26** | **CH 3 Designing a Page Layout** | **Read CH 5** | | **9** | **Thurs** | **11/2** | **CH5 – Designing for the Mobile Web CH 3 QUIZ** |  | | **10** | **Thurs** | **11/9** | **CH5 – Designing for the Mobile Web** | **CH 3 Homework Due Read Ch 7** | | **11** | **Thurs** | **11/16** | **CH 7 Designing a Web Form CH 5 Quiz** |  | |  | **Thurs** | **11/23** | **No Class - Thanksgiving** |  | | **12** | **Thurs** | **11/30** | **No Class – Professor Out!** |  | | **13** | **Thurs** | **12/7** | **CH 7 Designing a Web Form** | **CH 5 Homework Due** | | **14** | **Thurs** | **12/14** | **FINAL EXAM! (ch 7 Quiz)**  **ALL ASSIGNMENTS DUE!** | **Final Project Presentation! CH 7 Homework Due** | |

# Homework Assignments:

All homework assignments are to be handed in via The Q/Blackboard, unless otherwise specified. Files that are necessary to complete the homework assignments will be available for download on The Q/Blackboard.

Students may work together on these assignments; however the finished material MUST be of your own work.

1. **CH 1: Case Problem 3** – pgs. 81-84. Due on 10/5
2. **CH 2: Case Problem 2** – pgs. 172-174. Due on 10/19
3. **CH 3: Case Problem 2** – pgs. 270-272. Due on 11/9
4. **CH 5: Case Problem 2** – pgs. 448-450. Due on 12/7
5. **CH 7: Case Problem 2** – pgs. 598-600. Due on 12/14

**Final Project:**   
The final project will be a semester long project to make your own HTML/CSS website and will make up 10% of the final grade. The website requirements are as follows:

* 5 Page website on the topic of your choosing (sports team, professional portfolio, band, etc.)
* Must use your own code.
* Site should be responsive and work on mobile devices (tablet and phone).
* Site should have one form (does not have to function – just have the design of a form).
* Site should have some original images (or video).
* All pages should pass W3C validation and run in Chrome browser.

You will present the project on the final day of class.

1. Extracted from the QCC Course Catalog [↑](#footnote-ref-1)