

## **CIS-234 Client-Side Web Development**

Carroll Community College

Fall 2018

**COURSE DESCRIPTION:** CIS-234, Client-Side Web Development, builds on the concepts from CIS-137. Students will learn to use client-side technologies, programming languages and frameworks to build engaging, interactive and responsive websites. Online course description:

<https://www.carrollcc.edu/sites/carroll/templates/coursedetail.aspx?ID=11431&programID=15232&majorID=15232>

**COURSE PREREQUISITES:** CIS-137.

**COURSE CREDIT INFO:**

- Two hours lecture
- Two hours laboratory each week
- Three credits
- Three billable hours

**INSTRUCTOR:** Dan Rusk

**CLASS MEETINGS:** Monday & Wednesday 9:00 PM – 10:00 PM Live Recording Online

**OFFICE HOURS:** By appointment

**E-MAIL:** [drusk@carrollcc.edu](mailto:drusk@carrollcc.edu)

**PHONE:** 410.871.8123

**DIVISION CHAIR:** Division of Business & Technology  
Robert Brown  
Room M257A  
410-386-8224  
[rbrown@carrollcc.edu](mailto:rbrown@carrollcc.edu)

**MATERIALS:** There is no required Textbook, we will be using various online resources.

Laptop or Desktop Computer Capable of Running Webstorm (at least 4 GB of RAM, I recommend 8 GB+. Use the money you saved on a text book to upgrade!)

**RESOURCES:** Blackboard  
Other resources to be prescribed via Blackboard

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### COURSE OBJECTIVES:

Upon completing this course the student should be able to:

1. Develop webpages that dynamically change based on the viewing device (GE2,PG2)
2. Apply styling to HTML elements programmatically. (GE2,PG2)
3. Create fluid layouts and responsive images. (GE2,PG2)
4. Create web page transitions, transformations and animations. (GE2,PG2)
5. Create web pages that use a client-side frameworks such as jQuery and Bootstrap. (GE2,PG2)
6. Debug code by fixing syntax and logical errors. (GE2,PG2)
7. Explain how a program works by going through the code line by line. (GE1,PG2,PG4,PG5)

### SOFTWARE REQUIREMENTS:

The following software should be installed on the computer you are expecting to develop on. There are also websites you must register with. All of the following software/services are free for students. Please message me if you have any issues signing up or installing.

1. A text editor of your choice like notepad++, textmate, sublime, visual studio code, or atom.
2. **IntelliJ WebStorm**. This software requires a free student license. The free student license provides access to all of IntelliJ's IDEs. <https://www.jetbrains.com/student/?fromMenu>
3. **Chrome** <https://www.google.com/chrome/browser/desktop/index.html>
4. Other Software as detailed during class.

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### COURSE INFORMATION:

- A student wishing to withdraw from some or all of his/her courses should understand that such withdrawal is NOT effective until the student completes the withdrawal process!
- We are committed to accommodating students with disabilities. Please let your instructor know of your special needs.
- Please consult the Student Handbook for policies regarding Student Conduct and Academic Action.
- Cheating will not be tolerated. Do not copy and paste someone else's project. Do not let someone else copy your project. Both parties involved will face consequences. When in doubt if you can help someone, ask me first. Refer to the Code of Integrity for the possible consequences  
<https://www.carrollcc.edu/about/college-policies/policies---section-six--code-of-integrity-for-academic-and-behavioral-standards/>.
- Late Assignments: It is important that you keep up with the material, therefore late assignments will not be accepted.
- Makeup tests: Students are expected to take tests at the assigned date and time. Makeups may be given at the discretion of the instructor. In general, students should contact the instructor before the time of the test to ask for a makeup or extension. Do not assume that a makeup or extension will be granted! If an emergency arises and you are unable to contact the instructor in advance, contact must be made within 24 hours of the time that the test was administered. Students who do not contact the instructor with 24 hours will not be considered for a makeup under any circumstance.
- Communication: Send an email or text me. When texting, make sure to include your name and CIS234 in the message.
- Cancellation Policy: If for any reason a class is cancelled or the college campus is closed, it is each student's responsibility to visit the college Blackboard site for the course relevant announcements and/or assignments. If you are unable to access the internet, please contact the instructor at the phone number provided on the course syllabus. It is strongly suggested that the student do this as soon as word is provided that the class will be cancelled or the college campus closed so that any alternative/makeup assignment may be accomplished prior to the next scheduled class meeting. Please note that failure to access Blackboard or otherwise contact your instructor may result in an unexcused absence and lost credit for any work missed.
- Attendance Policy: Each student is responsible for all material covered in class. Therefore, those students who have a need to be absent are responsible for obtaining all notes and materials given during the missed class session. It is expected that you attend and participate in the Live Screencasts. However, they will be recorded for later viewing.
- Withdrawal: If a student withdraws from a course a grade of "W" will be included in his/her permanent record. Students can complete the withdrawal process by going to The Office of Student Development and Learning (Room A114). More information on refund and withdrawal

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dates can be found on the college website.

(<http://www.carrollcc.edu/courses/credit/academiccal/default.asp>)

- [Code of Academic Integrity and College Policies](#): Carroll Community College has adopted a Code of Integrity, as part of College Policies, to foster and promote a sense of respect and consideration of others, and to uphold high standards of academic honesty and social conduct (see the College Catalog). Cheating and plagiarism are serious offenses and will not be tolerated. It is expected that students complete their own work unless the instructor expressly permits collaboration.

**SCHEDULE – SUBJECT TO CHANGE**

**Week 1**

HTML5 & CSS3 Review

GitHub Introduction

**Week 2**

HTML5 & CSS3 Review

**Week 3**

Javascript

**Week 4**

Javascript

**Week 5**

Javascript

Intro to Front-end Frameworks

**Week 6**

Using Vue.js to create interactive, maintainable sites

**Week 7**

Using Vue.js to create interactive, maintainable sites

**Week 8**

Intro to Webstorm

Using Vue.js to create interactive, maintainable sites

**Week 9**

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Using Vue.js to create interactive, maintainable sites

**Week 10**

Using Vue.js to create interactive, maintainable sites

Interacting with remote API services

**Week 11**

Using Vue.js to create interactive, maintainable sites

Interacting with remote API services

**Week 12**

Using Vue.js to create interactive, maintainable sites

Web Hosting

**Week 13**

Using Vue.js to create interactive, maintainable sites

Web Hosting

*Thanksgiving Break Nov. 21-23*

**Week 14**

Using Vue.js to create interactive, maintainable sites

Animations/Media

**Week 15**

Using Vue.js to create interactive, maintainable sites

Animations/Media

**Week 16**

Final Exam

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### **Assignments:**

#### **A. Assignments (1000 points):**

- a. 12 Labs (55 points each, 660 points)
- b. Live Code Reviews (80 points each, 240 points)
- c. Final Exam (100 points)

#### **B. Grading Scale**

- A = 900 to 1000 points
- B+ = 870 to 899 points
- B = 800 to 869 points
- C+ = 770 to 799 points
- C = 700 to 769 points
- D+ = 670 to 699 points
- D = 600 to 669 points
- F = < 600 points