Web Programming

CSIS - 2440 001

Course Description

This course teaches how to program web pages based on the three-tier model. Both client side and server side languages as well as tools such as XHTML, JavaScript, PHP, and My*SQL are taught. It is recommended students complete CSIS 1430 prior to taking this course.

Semester: Fall & Spring

Course Student Learning Outcomes

- Master the INTERMEDIATE skills to create interactive web sites that are effective, navigable, informative, aesthetically pleasing and easy to maintain.
- Learn the basics of how to program and manipulate the THREE-TEIR MODEL of internet programming including the; Presentation Tier, Logic Tier, and Data Tier.
- Program web pages using both client side and server side languages such as XHTML, JavaScript, PHP, and My*SQL.
- Explore and learn how to implement “best practice” techniques to provide maximum internet security at all levels of the THREE-TEIR MODEL.

Required Text / Materials

Required Materials:

- ***Text Book:***

    - There is no required text book
    - Reference material comes from various web resources found in the modules section of this course
    - The main sources will be lecture videos created by your professor and the PHP documentation
    - These resources are essentially your text book.
- ***Computer:***
    - All students (i.e., both online and on-campus) will need access to a computer for all assignments and all resource material.
    - On Campus Students will need to bring a laptop to class every day.

Course Prerequisites

Prerequisites:

- Recommended: CSIS 1430.
- The assumption is that CSIS 2440 students are at a high-intermediate to advanced level with their HTML, and CSS knowledge and skillset.
- Additionally, the assumption is that the student has at least a beginner level exposure to JavaScript and is comfortable with the D.O.M.
- Toward the end of the semester, we learn some advanced JavaScript that requires D.O.M. experience.

Engagement Plan

My Commitment to You

- Responding to Canvas inbox
    - Canvas messages will be replied to within two business days. Keep this in mind even though homework is due on weekends!

- Grading assignments:
    - Assignments and Exams will be graded, and scores posted in Canvas, within approximately one week of the lock date.
- Logging into the course:
    - With rare exception, I will log in to the course at least once a day, Monday – Friday.
- Participating on discussion boards:
    - I will look at the discussion boards at least 3 times a week and comment as I feel necessary.
- Holding regular office hours and being available to help you if you reach out for assistance:
    - I will hold regular office hours. See the Meet with Me page for details.

My Expectations of You

- Logging into the course:
    - You should login to the course daily, Monday – Friday. Even if you don't have time to work on course content every day, you should login each day to see what announcements have been posted and review upcoming due dates.
- Working in the course:
    - This is a three credit-hour, 4 contact-hour course. Most students need to spend at least nine hours a week on this course to be successful.
    - Create a schedule for yourself and use the course calendar to stay abreast of assignment due dates and exam dates.
    - Take responsibility for your own learning and for asking for help when you need it.
- Participating on discussion boards:
    - We will use the discussion board in Canvas for weekly class discussions. Each discussion topic will specify the minimum participation requirements for each student.
- Emailing the instructor:

- Contact me using the Canvas Inbox anytime you have questions or concerns.

Keys for Success (how to succeed in the course)

Read the Assignments:

Each assignment, quiz, exam, project, etc. has very detailed instructions. Please read each assignment's instructions thoroughly before beginning each assignment. Your grade on the assignment depends on it. In many cases, not following the instructions can result in 0 points on the assignment, so please read and follow them thoroughly. Answers to 99% of the questions you may have about assignments (quizzes, exams, etc.) can be found in the instructions.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Roll Call Attendance	Assignment	100
8/31/25	Module 0: Assignment #1 - EXTRA CREDIT (5 Points)	Assignment	0
8/31/25	Module 0: Assignment #2 - Course Orientation - Quiz	Quiz	14
8/31/25	Module 0: Assignment #3 - Setting Up Your Local Environment	Assignment	40

Due Date	Assignment Name	Assignment Type	Points
8/31/25	Module 0: Assignment #4 - Setting Up Your Remote Environment	Assignment	60
9/2/25	Module 1: Lecture #1 - Introduction to PHP (Lecture Prep Assignment)	Quiz	5
9/7/25	Module 1: Assignment #1 - Happy Birthday	Assignment	37.5
9/7/25	Module 1: Lecture #2 - Understanding the Server (Lecture Prep Assignment)	Quiz	5
9/9/25	Module 1: Lecture #3 - Writing PHP Code (Lecture Prep Assignment)	Quiz	5
9/14/25	Module 1: Assignment #2 - PHP Basics Quiz	Quiz	20
9/14/25	Module 1: Lecture #4 - Loops & Branches (Lecture Prep Assignment)	Quiz	5
9/16/25	Module 1: Lecture #5 - Introduction to Arrays (Lecture Prep Assignment)	Quiz	5
9/21/25	Module 1: Assignment #3 - Assembling Arrays	Assignment	68.75

Due Date	Assignment Name	Assignment Type	Points
9/21/25	Module 2: Lecture #1 - Web Form Basics (Lecture Prep Assignment)	Quiz	5
9/23/25	Module 2: Lecture #2 - Dynamic Web Forms (Lecture Prep Assignment)	Quiz	5
9/28/25	Module 2: Assignment #1 - User Input	Assignment	87.5
9/28/25	Module 2: Lecture #3 - Regular Expression (Lecture Prep Assignment)	Quiz	5
9/30/25	Module 2: Lecture #4 - Data Persistence & Data Validation (Lecture Prep Assignment)	Quiz	4
10/5/25	Module 2: Lecture #5 - Data Validation Part 2: Error Trapping (Lecture Prep Assignment)	Quiz	4
10/7/25	Module 3: Lecture #1 - Refactoring Code (Lecture Prep Assignment)	Quiz	5
10/12/25	Module 2: Assignment #2 - Data Validation	Assignment	62.5

Due Date	Assignment Name	Assignment Type	Points
10/12/25	Module 3: Lecture #2 - Refactoring Code Continued & Dynamic Menus (Lecture Prep Assignment)	Quiz	5
10/14/25	Module 4: Lecture #1 - Reading Files (Lecture Prep Assignment)	Quiz	5
10/19/25	Module 3: Assignment #1 - Good Housekeeping	Quiz	16
10/19/25	Module 4: Assignment #1 - Spies R. Us	Assignment	141.25
10/19/25	Module 4: Lecture #2 - Writing to Files (Lecture Prep Assignment)	Quiz	5
10/21/25	Module 4: Lecture #3 - Connecting to a Database (Lecture Prep Assignment)	Quiz	5
10/26/25	Module 4: Assignment #2 - Building Your Databases	Assignment	50
10/26/25	Module 4: Lecture #4 - Crash Course in MySQL (Lecture Prep Assignment)	Quiz	5

Due Date	Assignment Name	Assignment Type	Points
10/28/25	Module 4: Lecture #5 - Practical Interactions with the Database (Lecture Prep Assignment)	Quiz	5
11/2/25	Module 4: Assignment #3 - Creating a Web Poll	Assignment	68.75
11/2/25	Module 5: Lecture #1: Cookies and Sessions (Lecture Prep Assignment)	Quiz	5
11/4/25	Module 5: Lecture #2: Hashing and Encryption (Lecture Prep Assignment)	Quiz	5
11/9/25	Module 4: Assignment #4 - Insecure Passwords	Assignment	120
11/9/25	Module 5: Assignment #1 - Cookies and Sessions (Quiz)	Quiz	13
11/9/25	Module 6: Lecture #1: PHP Objects and Classes (Lecture Prep Assignment)	Quiz	5
11/11/25	Module 6: Lecture #2 - PHP Object Inheritance (Lecture Prep Assignment)	Quiz	5

Due Date	Assignment Name	Assignment Type	Points
11/16/25	Module 5: Assignment #2 - Keepin' the Session Alive	Assignment	75
11/16/25	Module 6: Lecture #3 - MySQL Prepared Statements (Lecture Prep Assignment)	Quiz	5
11/18/25	Module 7: Lecture #1 - Intermediate JavaScript Topics (Lecture Prep Assignment)	Quiz	5
11/23/25	Module 5: Assignment #3 - Hash Browns	Assignment	118.75
11/23/25	Module 6: Assignment #1 - PHP Objects (Quiz)	Quiz	5
11/23/25	Module 7: Lecture #2 - JavaScript Objects (Lecture Prep Assignment)	Quiz	5
11/30/25	Module 7: Lecture #3 - Event Listeners (Lecture Prep Assignment)	Quiz	5
12/2/25	Module 7: Lecture #4: Real time JavaScript Form Validation (Lecture Prep Assignment)	Quiz	5

Due Date	Assignment Name	Assignment Type	Points
12/7/25	Module 7: Lecture #5 - A Brief Look at AJAX (Lecture Prep Assignment)	Quiz	5
12/14/25	Module 6: Assignment #2 - I, Object	Assignment	93.75
12/21/25	Bonus Module: Assignment #1 - Diastic Machine	Assignment	0
12/21/25	Module 9: Assignment #1 - Final Project	Assignment	200
12/21/25	Module 9: Assignment #2 - Course Feedback	Quiz	10

Brief Description of Assignments/Exams

Grading

Weekly Assignments (40%):

The specific assignment, due date, and turn-in procedures are all managed through Canvas. Late work for some assignments (but not all) may be submitted up to one week (7 calendar days) following the due date, but a 20% penalty will be assessed. Assignments will not be accepted after the lock date. no exceptions.

For details, due dates, and lock dates for each assignment, check the Assignment Due Dates page on the home page of the course on a regular basis.

Exams (30%):

There is only one "exam" for this course, the final project. This means that the final project alone is worth 30% of your grade.

Important note: the final exam does not have a 1 week grace period like the weekly assignments. It must be turned in by the due date/time. If not, the grade for the final will be zero points.

Module Quizzes (20%):

Some modules have an end of module quiz. Quizzes must be taken on or before the due date/time; they are "open book"; they are not timed, and you may take each quiz only once with the exception of the "Orientation Quiz" which can be taken twice.

Most quizzes (e.g., the Orientation Quiz) do not have a 1 week grace period. The due date and lock date are the same date.

Pre Class Quizzes (10%):

Each lecture page has at least one lecture video. Most of the lecture videos have an associated quiz. Both online, and on-campus students are required to watch the videos and take the quizzes.

Note for Campus Students:

The quiz must be completed (and locks) before coming to class.

These lecture videos are the equivalent of reading the text book before coming to class. Without watching the videos before coming to class you will not be prepared for class.

Note for Online Students:

If you're an online student, the videos and quizzes are your lecture. Be sure to take the quiz before the due date.

Grading Scale

Grading Scale	A 94% - 100%	A- 90% - 93%
B+ 87% - 89%	B 84% - 86%	B- 80% - 83%
C+ 77% - 79%	C 74% - 76%	C- 70% - 73%
D+ 67% - 69%	D 64% - 66%	D- 60% - 63%
E 59% and below		

How to Navigate to Canvas

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the Institutional Syllabus page.

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the Institutional Syllabus page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the Institutional Syllabus page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

Student Academic Calendar

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

SLCC Student Academic Calendar