IFSC 34203: Mobile Web Development

Section 01: TR 9:25 AM -- 10:40 AM in EI218

Spring 2026

Mobile Web Development (01)

This course will take an in-depth look at modern web technologies used in the creation of standards-based websites for use on standard and mobile devices. We will evaluate and test many approaches in an effort to establish maintainable workflows and create highly usable sites using a "Mobile First" design philosophy. In addition, this course will explore various tools for testing, versioning and distributing project assets.

Instructor Info

Name: Thomas Wallace
Email: tswallace@ualr.edu
Phone: 501-916-5230
Office Location: EIT 547
Office Hours: Your success in this course is important to me. I will be available to meet virtually at the following times: Monday/Wednesday - 9:ooam-Noon | Tuesday/Thursday - 11:00am -Noon | Friday - 9:00am -Noon To schedule an appointment please email at tswallace@ualr.edu and I will send you a virtual meeting invitation.
Instructor Presence: All course content will be delivered during the scheduled classroom sessions by the Instructor, except in cases of a relevant guest speaker. Additional support is available via CSTEM Student Academic Services. To schedule a tutoring session visit https://ualr.edu/cstem/students/tutor-request/.

Course Description

Credit Hour(s): 3

Description: The course will be conducted as a seminar. Participation counts and may include small group presentations and exercises. A high level of student participation is required. Make sure that all assigned preparation and readings are done in advance and that you are ready to engage in full examination and discussion of topics. The instructor will not hesitate to call on students for questions and comments. It is, therefore, critical that reading assignments be completed before class in which they are addressed and reviewed.

Prerequisites: IFSC 11003 (IFSC 1310) or instructor approval

Course Learning Objectives

Upon successful completion of this course, students will be able to:

- Students will learn key terminology and industry best practices related to responsive web design and development, site security, file management and site optimization.

- Students will be able to author valid HTML5 and CSS and augment behavior using JavaScript and DOM (Document Object Model).

- Students will be able to leverage responsive web frameworks to generate rapid prototypes of mobile web apps.

- Students will explore HTML5 native APIs. microdata, and grid-based design systems.

- Students will create an accessible, standards-based mobile web site using the appropriate techniques and deploy to a development environment.

Course Materials

Title: All required materials will be available via my website located at http://thomaswallace.net

Grading Scale

Your semester grade for this course will be determined based on the following scale:

A = 90-100
B = 80-89
C = 70-79
D = 60-69
F = less than 60

A = excellent work; B = above average work; C = average work; D = below average; F = failing

Grading Criteria

Course Component	Percentage of Total Points
Participation & Self-Initiated Learning	10%
Homework Assignments	30%
Skill-Based Assessments	30%
Final Project and Presentation	30%

Learning Activities

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University Policies

Students with Disabilities

- https://ualr.edu/policy/facstaff/course-syllabus/

If you are a student with a disability, or if you simply want to discuss resources that might help you learn more effectively, you can contact the Disability Resource Center at any time. You are welcome to drop in or call 501-916-3143 to make an appointment. Their staff will work with you to discuss accommodations and identify resources on campus or in the community that might be helpful for you. Accommodations are established through an interactive process. For more information, visit the DRC website or review the steps to request accommodations. We want you to know you are valued, welcome, and wanted at UA Little Rock.

Non-Discrimination Policy

- https://ualr.edu/policy/home/admin/non-discrimination/

Title IX and Harassment

- https://ualr.edu/titleix/titleix/title-ix-the-basics/

Inclement Weather Policy

- https://ualr.edu/policy/home/admin/weather/

Academic Integrity

- https://ualr.edu/deanofstudents/academic-integrity/

Disclosure of Instances of Sexual Misconduct

- https://ualr.edu/policy/home/facstaff/title-ix/

Withdrawal

- https://ualr.edu/policy/home/student/withdrawal-from-ualr/

Add/Drop

- https://ualr.edu/records/2511-2/

Incomplete

- https://ualr.edu/records/grades/

Grade Policies

- https://ualr.edu/policy/home/facstaff/grades-and-grading-systems/

Course Policies

Attendance

Attendance is critical in mastering the course material. If you must miss class, please send an email to tswallace@ualr.edu before class begins explaining the reason for your absence. Participation implies making comments, observations, and contributions and asking questions in the virtual and/or physical classroom. Excessive unexcused absences will negatively affect your participation grade. We will be using Blackboard Collaborate for online class meetings and individual meeting requests will be handled via Google Meet. Students are expected to attend lectures online at the regularly scheduled times and participate throughout the duration of the session. If attendance on a particular day is not possible. Students should email the Instructor prior to class to make alternate plans for completion of that day's content.

Policy for Late/Missed Work

Students are expected to turn in all assignments on time. Failure to do so will result in reduced or no credit for the assignment. Only in the case of extenuating circumstances will an extension be granted. Credit for Late Assignments

- 1st Offense - Maximum 75% Credit if submitted within 24 hours of the due date.

- 2nd Offense - Maximum 50% Credit if submitted within 24 hours of the due date.
- 3rd Offense - No Credit

Academic Integrity

Plagiarism on any assignment will at a minimum result in 0 points for the assignment. We reserve the right to pursue further disciplinary action if appropriate (e.g. any student caught cheating on an assignment/assessment will receive an "F" for the course, and we may pursue action with the Committee on Academic Integrity). Plagiarism includes copying someone else's work and claiming it as your own, or collaborating excessively with another person or persons and claiming the work as solely your own. It is strongly recommended that students maintain a record of the preparation of their major assignments.

Policy on the Use of Large Language Models (LLMs) in Class

The use of Large Language Models (LLMs), such as ChatGPT, Gemini, or other AI-based tools, can be a valuable resource for learning and enhancing programming skills. However, their use in this course is governed by the following guidelines to ensure academic integrity, foster critical thinking, and maintain fairness.

Permitted Uses

Students are encouraged to use LLMs for:

- Conceptual Understanding like clarifying programming concepts
- Debugging Assistance: Seeking suggestions for resolving coding errors or improving code efficiency.
- Learning Resources: Generating examples, pseudocode, or explanations related to programming techniques.
- Brainstorming Ideas: Generating projects ideas or placeholder content
- Project Support: Researching tools, APIs, or workflows to enhance project outcomes.

Prohibited Uses

The following uses of LLMs are considered violations of academic integrity:

- Submission of AI-Generated Code or Text as Original Work: Any code, project deliverables, or written assignments must reflect the student's own understanding and effort.

- Directly submitting AI-generated output without proper attribution is prohibited.

- Collaboration Substitution: Using LLMs to replace meaningful collaboration with peers on group assignments or projects.

- Uncritical Reliance: Copying and pasting AI-generated solutions without verifying their accuracy, functionality, or relevance to the assignment requirements.

- Exam Assistance: Using LLMs during exams, quizzes, or other assessments unless explicitly allowed.

Attribution and Transparency

When LLMs are used to aid learning or assignments, students must:

- Clearly indicate where and how the tool was used in their work. For example: Comment in code: <!--This code was adapted from ChatGPT-generated pseudocode -->.

- In written assignments: "This explanation was inspired by ChatGPT's response on [date]."

- Ensure all LLM-generated content is appropriately revised to reflect personal understanding.

Evaluation and Accountability

Students are responsible for:

- Demonstrating a clear understanding of any code or solutions they submit.

- Justifying design choices or implementations when questioned.

- Ensuring LLM usage aligns with the course's academic integrity policy.

Encouraged Practices

- Treat LLMs as supplementary tools, not replacements for personal effort or human collaboration.

- Verify and critically analyze AI-generated suggestions before incorporating them into assignments or projects.
- Seek guidance from the instructor or peers when in doubt about the appropriate use of LLMs.

Consequences of Misuse

Misuse of LLMs, including violations of the above policies, will be treated as an academic integrity offense and may result in penalties ranging from reduced grades on assignments to failure in the course, depending on the severity of the violation. By adhering to this policy, students can leverage LLMs to enhance their learning experience while upholding the principles of academic integrity and personal accountability. If you have questions about the acceptable use of LLMs, please discuss them with the instructor.

Helpful University Resources

Blackboard Student Support

- https://ualr.edu/blackboard/contact/

Bookstore

- https://ualr.bncollege.com/

Care Team

- https://ualr.edu/studentsuccess/care-team/

Career Center

- https://ualr.edu/careers/

Child Care Connections

- https://ualr.edu/studentsuccess/child-care-connections/

Disabilities Resource Center

- https://ualr.edu/disability/

Communication Skill Center (CSC)

- https://ualr.edu/appliedcomm/communication-skill-center-csc/

Counseling

- https://ualr.edu/counseling/

Handshake

- https://ualr.joinhandshake.com/login

Health Services

- https://ualr.edu/health/

Information Technology Services (ITS)

- https://ualr.edu/itservices/welcome/

Mathematics Assistance Center

- https://ualr.edu/mathematics/mathematics-assistance-center/

Military Student Success Center

- https://ualr.edu/military/

Office of Student Retention Initiatives (SRI)

- https://ualr.edu/studentsuccess/academic-resources/coaching-and-student-support/

Student Support Services (SSS)

- https://ualr.edu/studentsupport/

Trojan Tutoring (i.e. introductory-level courses only) via University Learning Commons

- https://ualr.edu/studentsuccess/academic-resources/

UA Little Rock Trojan Food Pantry

- https://ualr.edu/foodpantry/

University Writing Center (UWC)

- https://ualr.edu/writingcenter/

Ottenheimer Library

- https://ualr.edu/library/

Tentative Course Schedule

Week 1

Course Introduction / Review - What you should know / Where have we been? Where are we going?

Week 2

The current state of mobile development / Underlying Technologies / Tools / Showcase

Week 3

HTML5 / Semantics / Usage / Progressive Enhancement

Week 4

HTML5 / APIs - Audio, Video, Geolocation

Week 5

Microformats & Data Schema / Special Link Types / Mobile Specific Meta Tags

Week 6

CSS3 / Media Queries / Breakpoints

Week 7

Mobile Frameworks / Designing with Grids

Week 8

Site Planning Wire-framing / Prototyping

Week 9

Present Project Briefs

Week 10

CSS3 / Transitions and Other Goodies

Week 11

Spring Break

Week 12

Image Techniques for Mobile

Week 13

Mobile Javascript

Week 14

Optimization and Testing

Week 15

Final