



## Web Development CIS 376 01

University of North Alabama  
Sanders College of Business and Technology  
Course Syllabus

### Instructor

---



**Name:** Barry Cumbie, Ph.D.; Professor of Computer Science and Information Systems  
**Phone:** (256) 765-4873  
**Email:** bcumbie@una.edu  
**Office Location:** 244 Computing & Mathematics  
**Office Hours:**  
**Spring 2026:** Monday-Thursday, 11:00am-12:30pm

### Course Information

---

**Term:** Spring 2026

**Delivery Method:** On Campus

**Course Location:** Computing and Mathematics 215

**Course Day/Time:** MW 9:30-10:45

### Course Description

---

Introduction to Web development (design HCI and creation) using current standards for client-side content delivery (e.g., HTML and CSS). Students will learn to create and publish a multi-page, static-content website using associated applications. Special focus is given to user interface design, data presentation, and data organization. Prerequisite: CIS 225 (with a grade of C or higher) or CS 155 (with a grade of C or higher). (Fall, Spring, Summer on sufficient demand)

## Course Prerequisite Policy for CSIS

---

All **CS**, **ITE**, and **CIS** courses that are prerequisites for other CS, ITE, and CIS courses must be completed with a grade of "C" or higher. These courses will be limited to two attempts including withdrawals. In special circumstances, a third attempt may be approved by the department chair.

## Required Text and Materials

---



### **GitHub Account**

#### **Please Note**

- An account at [GitHub.com](https://GitHub.com) is required for this class.
- The same account is used for access to [CodePen.io](https://CodePen.io) and [CodeAcademy.com](https://CodeAcademy.com)
- Only free accounts are required, no premium or paid access

### **Computing Device & Internet Access**

#### **Please Note**

On-campus you may use the computers in Collier Library and/or the CSIS Computing Lab

## BBA Learning Goals

---

- BBA Goal: 1 - Our BBA graduates will be effective communicators. Learning objectives include the ability to: (a) convey information in written form, and (b) prepare and make oral presentations.
- BBA Goal: 2 - Our BBA graduates will be problem solvers. Learning objectives include the ability to: (a) identify business and economic problems and their constraints, and (b) propose solutions.
- BBA Goal: 3 - Our BBA graduates will have ethical awareness. Learning objective includes the ability to: (a) identify ethical situations and dilemmas.

- BBA Goal: 4 - Our BBA graduates will have an awareness of global business. Learning objective includes the ability to: (a) identify features of global business.

## Course Objectives

---

### **Upon successful completion of this course, the student will be able to:**

- Identify web development concepts and terminology.
- Demonstrate the usage of web development technologies.
- Develop web-based content.
- Determine deficiencies in web-based interface design.
- Create improved web-based interfaces.

## Topics

---

### **Languages & Libraries**

- HTML5, Markdown, CSS3, JavaScript/ECMAScript, jQuery, Bootstrap 5, JSON

### **Knowledge & Skills**

- Web Developer lexicon
- markup, page layouts, behavior, & interaction
- Document Object Model manipulation, JavaScript Object Notation
- Web Dev Ecosystem
  - File naming, directory/repository configuration, compression, exporting/cloning, hosting configuration/architecture
  - version control, testing, debugging, deployment
- System Development: Story Cards, Agile
- Standards:
  - Google Style Guide, W3C Accessibility Standards

## **Dev Tools & Resources**

- DevDocs, W3CSchools, CodeAcademy, Content Delivery Networks, Documentation, Templates
- GitHub, Command Line Interface, Wave, Browser Developer Tools, Keyboard Shortcuts, Code Editors

## **Exam Proctoring**

---

As part of our commitment to uphold academic integrity, this course uses [SmarterProctoring](#) for all online exams. SmarterProctoring is a flexible, online proctoring service that allows students to take exams remotely while ensuring the integrity of the exam process. To take exams with SmarterProctoring, you will need:

- a reliable high-speed internet connection,
- a webcam and microphone,
- a laptop or desktop computer (Mac, PC or Chromebook),
- a government-issued photo ID
- the SmarterProctoring Chrome Extension,
- an updated version of Google Chrome,
- and optionally at your professor's discretion, you may be required to use your personal smartphone device as a secondary camera.

More specific information about how to navigate and take an exam with SmarterProctoring is available within your Canvas course.

It is the responsibility of the Sanders College of Business and Technology to prepare and train students to be business professionals in the workforce. To this charge, know that online proctoring is a privilege – not a right – and we expect our students to always uphold professional standards throughout the online proctoring process. As a general rule, behaviors that your professor would not allow within a physical classroom during a traditional face-to-face exam will also not be allowed during online proctored exams. These behaviors include, but are not limited to the following:

- Using your handheld device for anything other than a secondary camera,
- Using an improper secluded examination setting (sitting on a bed, lying under covers in bed, bathroom, etc.),
- Wearing improper attire or not being fully clothed (pajamas, hoodies, caps, hats,

sunglasses, etc.),

- Eating, drinking, chewing gum, etc.,
- Wearing headphones, earplugs/earbuds, smartwatches, augmented reality smart glasses, etc.,
- Watching television, listening to music, listening to podcasts, etc.,
- Talking, including verbally reading questions and answers aloud to yourself.

***Disclaimer: It is mentioned below that if you take a “Record and Review” exam and have multiple exam rule violations, that your instructor may ask you to take remaining exams via a “Live Proctor” or at a “Certified Testing Center.” Keep in mind that your instructor also reserves the right to enforce additional penalties (failing grade on exam, failing grade for course, etc.), in accordance with their specific course policy and the University’s Academic Honesty Policy.***

## “Record and Review” Exams

*There is no cost to the student for taking a “Record and Review” exam.*

The primary method for taking online exams will be the “Record and Review” method, where your entire exam session will be recorded and then reviewed afterward by a trained proctor.

SmarterProctoring will take you through an identity verification process and will then record both your webcam/microphone and your computer screen throughout the exam. A trained proctor will then watch the exam video and flag suspected exam rule violations. After completing the video review, SmarterProctoring will send an incident report to your instructor and your instructor will watch the videos in which rule violations occur. If warranted, your instructor will contact you directly to discuss penalties for rule violations.

## “Live Proctored” Exams

*There is no cost to the student for taking a “Live Proctored” exam.*

If you have an exam flagged for violating the Exam Rules for a course, your instructor may ask you to take all remaining exams in the course with a trained Live Proctor from SmarterProctoring. This will require you to schedule your exam 48-hours in advance of when you plan to take it, to ensure a live proctor is available for your exam session. The live proctor will verify your identity and watch your entire exam session in real-time, verifying that all exam rules are being followed throughout the exam.

## “Certified Testing Center” Exams

*There may be costs associated with taking exams in a certified testing center. The Sanders College of Business & Technology (COBT) pays SmarterProctoring \$25 per exam per student. If you choose to take your exam at a certified testing center that charges \$25 or less for exams, then the Sanders COBT will cover that cost and there will be no cost to you for taking the exam.*

*However, if you choose to take your exam at a certified testing center that charges more than \$25, then the Sanders COBT will still pay the \$25 but you will be responsible for paying the difference. For example, if the testing center charges \$30 for an exam, then the COBT will pay \$25 and you will be required to pay the \$5 difference to take the exam.*

You may choose to take exams in this course in a Certified Testing Center (available across the U.S.) if you prefer that type of testing environment rather than being proctored online. Your instructor also has the right to send you to a certified testing center for exams if the SmarterProctoring incident reports show an abundance of exam rule violations. This will require you to schedule an exam session 48-hours in advance of when you plan to take it, and then you will drive to the testing center to take your exam in person with a live proctor in the testing center with you.

## Grading Scale

---

Final Grade Determination	
Final Grade	Percent Range
A	89.5 - 100%
B	79.5 - 89.4%
C	69.5 - 79.4%
D	59.5 - 69.4%
F*	Less than 59.5%

### \*Automatic Failure

- A failing grade on the final project
- A failing grade on class attendance
- A violation of the University Academic Honesty Policy

## Course Evaluation Process

---

- **40% dev projects.** four development projects
- **20% exams.** two in-class examinations, mid-term (10%) & final (10%)
- **20% participation.** attendance, class activities, labs, study quizzes, pop quizzes!
- **20% homework.** CodeAcademy courses

## **Exceptions**

- Extensions - Considered on a case-by-case basis and require pre-approval

## **Grade Disputes**

- Please submit possible grading errors or disputes via Canvas Inbox within one week of the grade posting.
- Please include all pertinent information including the specific assignment, question number & text, instructions, textbook reference, screenshot, or other.
- If you do include a screenshot, also transcribe any information into text.
- Do not submit via submission comments.

## **Program Outcomes (ABET Student Learning Outcomes)**

---

- ABET SLO: 1 - Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
- ABET SLO: 2 - Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- ABET SLO: 3 - Communicate effectively in a variety of professional contexts.
- ABET SLO: 4 - Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- ABET SLO: 5 - Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- ABET SLO: 6 (CS only) - Apply computer science theory and software development fundamentals to produce computing-based solutions.
- ABET SLO: 6 (CIS only) - Support the delivery, use, and management of information systems within an information systems environment.
- ABET SLO: 6 (IT only) - Use systematic approaches to select, develop, apply, integrate, and

administer secure computing technologies to accomplish user goals.

## Late Assignments Policy

---

- No late submissions are accepted

## Make-up Exam Policy

---

University approved and valid absences must be provided and approved in advance via Canvas Inbox

## Course-Specific Attendance & Participation Policy

---

Class attendance is required and graded

- partial credit is given for late arrival or early departure
- grades are recorded and scored in Canvas
- Attendance disputes must be submitted via Canvas Inbox within one week of the date in question
- Missing more than 60% of the class meetings results in a failing grade for the course

## Academic Honesty Policy

---

Students of the university academic community are expected to adhere to commonly accepted standards of academic honesty. Allegations of academic dishonesty can reflect poorly on the scholarly reputation of the University including students, faculty and graduates. Individuals who elect to commit acts of academic dishonesty such as cheating, plagiarism, or misrepresentation will be subject to appropriate disciplinary action in accordance with university policy.

Incidents of possible student academic dishonesty will be addressed in accordance with the following guidelines:

1. The instructor is responsible for investigating and documenting any incident of alleged academic dishonesty that occurs under the instructor's purview.

2. If the instructor finds the allegation of academic dishonesty to have merit, then the instructor, after a documented conference with the student, will develop a plan for disciplinary action. If the student agrees to this plan, then both instructor and student will sign the agreement. The faculty member will forward a copy of the signed agreement to the Office of Student Conduct for record-keeping purposes.
3. If the student disagrees with the instructor's proposed plan for disciplinary action and wishes to take further action, he/she is responsible for scheduling a meeting with the chair of the department where the course is housed to appeal the proposed disciplinary plan. The department chair shall mediate the matter and seek a satisfactory judgment acceptable to the faculty member based on meetings with all parties. If a resolution is reached, the disposition of the case will be forwarded to the Office of Student Conduct. If a resolution at the departmental level is not reached and the student wishes to take further action, he/she is responsible for scheduling a meeting with the dean of the college where the course is housed to appeal the proposed disciplinary plan. The college dean shall mediate the matter and seek a satisfactory judgment acceptable to the faculty member based on meetings with all parties. If a resolution is reached, the disposition of the case will be forwarded to the Office of Student Conduct. If a resolution at the college level is not reached and the student wishes to take further action, he/she is responsible for scheduling a meeting with the Vice President for Academic Affairs and Provost (VPAA/P) to appeal the proposed disciplinary plan. The VPAA/P shall mediate the matter and seek a satisfactory judgment acceptable to the faculty member based on meetings with all parties. After reviewing all documentation, the VPAA/P may, at his/her discretion, choose either to affirm the proposed action, to refer the case to the Office of Student Conduct for further review, or to dismiss the matter depending on the merits of the case. The final disposition of the case will be disseminated to appropriate parties, including the Office of Student Conduct.
4. If a student is allowed academic progression but demonstrates a repeated pattern of academic dishonesty, the VPAA/P may, after consultation with the Office of Student Conduct, assign additional penalties to the student, including removal from the University.

## REPORT.UNA.EDU

---

In an effort to continue to support University of North Alabama's commitment to the health, well-being and safety of our campus community the website <https://www.una.edu/report/index.html> was created. This site allows you to share important information regarding incidents or observed behavior occurring in the UNA community. This does not replace reporting to UNA Police. If you believe that a situation you are reporting is an emergency, call 911. For non-emergencies, call UNA PD at (256) 765-4357.

## Communication Policy

---

The official method of communication at UNA is UNA portal, with emphasis placed on University email. You may access your UNA Portal email through the [University's homepage](#). The link to Portal is at the top of the page. It is important for students to read their UNA Portal e-mail on a regular basis for information regarding University deadlines, policies, and events. These messages are outside your Canvas courses and relate to ALL University communication. Please understand the importance of each communication vehicle and the distinction between the two.

## Academic Honesty Policy - Addendum

---

Professors may not be notified of potential academic misconduct until the semester has ended. In such instances, the student will be contacted by the faculty member. Violations of exam rules (such as those identified by SmarterProctoring exam results) may result in a change in the final grade that was previously submitted to the Registrar's Office.

## AI Guidelines

---

The University of North Alabama acknowledges that faculty have complete discretion in establishing acceptable use of Generative AI (and other assistive tools) in their courses, so long as that use complies with existing university policies such as Faculty Handbook policies, Academic Honesty policies, IT Acceptable Use policies, and Privacy policies. The University offers the following guidance for crafting syllabus policies:

Faculty should explicitly define and explain the acceptable use of AI in the course syllabus, assignments, and rubrics/grading guides. Sample language from the [UNA Generative AI Guidelines](#) is available in the following two Simple Syllabus components. Please edit and make visible as appropriate.

## Academic and Institutional Support Services

---

The University of North Alabama is committed to providing students with a supportive and inclusive learning environment that promotes student success. Many offices and centers are available to students on campus and online:

- [University Success Center](#) provides tutoring and houses the Center for Writing Excellence, Math Learning Center, and Advising Services.
- [Student Counseling Services](#) and [University Health Services](#) are available to provide students with a safe and confidential space to discuss mental health, physical health and any overall well-being needs.
- The ROAR Access Center (formerly known as [University Case Management](#)) provides assistance to students for overcoming barriers to success, including resources for financial assistance, food insecurity, academic and mental health support. (including lack of food through [The Pantry](#) and financial concerns through Caring for the Pride).

## Policy on AI Use in Coursework

---

As part of this course, students are encouraged to engage with emerging technologies, including artificial intelligence (AI) tools, to enhance learning and skill development. However, it is essential to use these tools responsibly and ethically. The following guidelines outline acceptable and unacceptable uses of AI in coursework.

### Acceptable AI Use

1. Assistance with Research and Writing: Students may use AI tools (e.g., ChatGPT, Grammarly) to assist with brainstorming ideas, conducting research, grammar checks, or improving the clarity of writing. However, the original ideas and final work must reflect the student's understanding and effort.
2. Programming and Coding Assistance: AI tools may be used to generate code snippets or suggest solutions. Students should ensure that they understand the generated code and are able to explain its functionality during assessments or in class discussions.
3. Proofreading and Editing: Students may use AI for basic proofreading, formatting, and language refinement, as long as the content remains their own creation.
4. Learning and Exploration: AI tools can be explored to supplement learning and deepen your understanding of course material. This includes using AI to clarify concepts, simulate scenarios, or analyze data sets.

### Unacceptable AI Use

1. Plagiarism or Full Automation of Assignments: Submitting AI-generated work as your own without meaningful engagement or modification is considered plagiarism. All assignments should reflect your own original thought processes, critical analysis, and academic effort.
2. Bypassing Learning Objectives: Using AI to complete an assignment without engaging with the learning objectives (e.g., generating entire essays, exam answers, or project deliverables without

personal input) is prohibited.

3. Uncredited Use of AI-Generated Content: If you use AI-generated content in your work, it must be properly credited, even if the AI only provided part of the assignment. Failure to do so will be treated as academic dishonesty.
4. Personal, confidential, proprietary, or sensitive information that should not be published or uploaded into a Generative AI tool.

### **Guidelines for AI Attribution**

- When using AI-generated content (e.g., for ideation or content improvement), cite the tool and briefly describe its use, like this:
- Formal citation in appropriate course format (e.g., APA 7, MLA, ect.) or “This assignment used suggestions from ChatGPT for structuring arguments.”

### **Consequences of Misuse**

Misuse of AI will be treated as a violation of academic integrity and may result in penalties ranging from assignment point deductions to failure of the course, depending on the severity of the infraction.

### **Instructor's Role**

If you are uncertain about whether your use of AI falls within acceptable guidelines, consult the instructor before submitting your work.

[For more information, visit UNA's Guidelines for Responsible Generative AI Use.](#)

## **Policy on AI Use in Coursework**

---

This course is designed to foster your independent critical thinking, creativity, and skill development. To ensure that you meet the learning objectives and demonstrate your personal understanding of the course material, the use of artificial intelligence (AI) tools for any aspect of coursework is strictly prohibited.

### **Unacceptable AI Use Prohibited AI Activities Include But Are Not Limited to:**

1. Generating Content: Using AI tools (e.g., ChatGPT, Jasper, Grammarly AI) to generate essays, assignments, reports, code, or any other form of academic work is not allowed.
2. Assisting with Writing or Revisions: AI tools cannot be used to help with writing, editing, or revising your work. This includes grammar correction, sentence restructuring, or suggesting ideas.
3. Problem Solving and Coding: AI tools are not to be used to solve problems, generate solutions, or assist with coding assignments. All work submitted must reflect your own efforts and understanding.
4. Research and Idea Generation: You must not use AI tools to generate research topics, conduct research summaries, or formulate ideas for your coursework.

5. Exams and Quizzes: During exams, quizzes, or any form of assessment, the use of AI tools is strictly prohibited, whether for generating answers or assisting in completing the task.
6. Personal, confidential, proprietary, or sensitive information that should not be published or uploaded into a Generative AI tool.

### **Consequences of Misuse**

Misuse of AI will be treated as a violation of academic integrity and may result in penalties ranging from assignment point deductions to failure of the course, depending on the severity of the infraction.

[For more information, visit UNA's Guidelines for Responsible Generative AI Use.](#)

## **Undergraduate Course Withdrawal**

---

### **Withdrawal from a Course**

A student may withdraw from a course with a grade of W by the withdrawal period deadline indicated on the [University Academic Calendar](#).

Any student wishing to withdraw from a class during the withdrawal (W) period may login to their secure UNA Portal and follow the same steps as when they initially registered, selecting 'web withdraw' beside the desired course(s) and submit. This policy is valid for all courses offered by the University of North Alabama. The class will be withdrawn as requested and a notification sent to the student and instructor. The Registrar's Office will notify the Office of International Affairs for any international student wishing to withdraw from a class.

Withdrawing from a class after the withdrawal period deadline will require the permission of the Instructor and Department Chair or the Dean's Office.

Please visit [the Withdrawal Page in the University Catalog](#) for additional information

## **Information Technology Acceptable Use Policy**

---

UNA Technology policies and Usage statements may be found on the [UNA Information Technology Services Policies/Usage Statements](#) page.

## Minimum Technology Requirements

---

- **Computer:** You will need a desktop, laptop, or notebook computer (PC or Mac) for online exam proctoring in this class. Tablets and mobile devices are not supported at this time.
- **Webcam/Microphone:** You will need a webcam and microphone for online exam proctoring in this class. This may be a webcam/microphone built in to your device or an external webcam/microphone that is connected to your device.
- **Internet Connection:** You are encouraged to use a broadband internet connection. Mobile hotspot/phone data speeds are problematic and should not be used.
- **Internet Browser:** You should use the Google Chrome internet browser during proctored exams. Google Chrome can be downloaded for free from [Google Chrome Download](#).
  - **Browser Plug-in:** When opening an exam for the first time, students will be prompted to download a browser plug-in for SmarterProctoring. This plug-in is necessary for exam proctoring.
- **Microsoft Office:** You may use Microsoft Office applications in this course. You can download a free copy of this software through your UNA Portal account. For instructions on how to download your free copy, go to [Free Office](#).
- **Canvas:** You will use the Canvas Learning Management System (LMS) for this course. You need to ensure that your computer and your internet browser meet the requirements for using Canvas. For full, current Canvas system requirements please visit:
  - [Canvas Browser and System Requirements](#)

## Disability Accommodations

---

In accordance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973, the University offers reasonable accommodations to students with eligible documented learning, physical and/or psychological disabilities. It is the responsibility of the student to contact The Aubrey and Annie Looney Disability Support Services to initiate the process to develop an accommodation plan. This accommodation plan will not be applied retroactively. Appropriate, reasonable accommodations will be made to allow each student to meet course requirements, but no fundamental or substantial alteration of academic standards will be made. For assistance, please contact [Aubrey and Annie Looney Disability Support Services](#)

# Important Technical Support Contact Information

---

## Login Issues

If you cannot log-in to Canvas or your UNA Portal account, please e-mail UNA Information Technology Services at **helpdesk@una.edu** to request assistance. Be sure to include your full name, UNA email address, an alternative e-mail address (if applicable) and a phone number. Additional information for UNAPortal can be found at [Troubleshooting and FAQ](#).

## Canvas Issues

If you have questions about using Canvas, please visit the [Canvas Support for Students page](#). If Canvas misbehaves, please use the **HELP (?)** icon on the navigation menu in Canvas and click **Report a Problem** to submit a technical support ticket to our Canvas support team.

# Title IX Policy

---

The University of North Alabama has an expectation of mutual respect. Students, staff, administrators, and faculty are entitled to a working environment and educational environment free of discriminatory harassment.

UNA is required to ensure that all of its education programs and activities do not discriminate on the basis of sex. Discrimination on the basis of sex includes discrimination on the basis of sex stereotypes, gender identity, gender expression, sexual orientation, and pregnancy or related conditions.

UNA has obligations under Title IX to provide certain supports and modifications to people experiencing pregnancy or related conditions in order to ensure their equal access to UNA's program or activity. Pregnancy or related conditions include pregnancy, childbirth, termination of pregnancy, lactation; medical conditions related to pregnancy, childbirth, termination of pregnancy, or lactation; and recovery from pregnancy, childbirth, termination of pregnancy, lactation, or related medical conditions. Students should contact the Title IX Coordinator for more information.

Faculty and staff are required to report any observations of harassment (including online harassment) as well as any notice given by students or colleagues of any of the behaviors noted above. Retaliation against any person who reports discrimination or harassment is also prohibited. UNA's policies and regulations covering sex- and gender-based discrimination and harassment may be accessed at [www.una.edu/titleix](http://www.una.edu/titleix). If you have experienced or observed sex -based discrimination or sex-based

harassment, you can contact one of the confidential resources available at [www.una.edu/titleix](http://www.una.edu/titleix). On that website, you also have the option to make a report to the Title IX Coordinator at report.una.edu.

You may also report directly to the Title IX Coordinator at 256-765-4223 or by emailing [titleix@una.edu](mailto:titleix@una.edu) to set up an appointment.

## Additional Information about Confidential Reporting and Title IX Reporting

---

### **Confidential Reporting:**

If a reporting party would like the details of an incident to be kept confidential, the reporting party may speak with:

- Student Counseling Services 256-765-5215
- University Health Services 256-765-4328

### **Reporting to Title IX:**

Reports under the University's Sexual Misconduct Policy may be made directly to the Title IX Coordinator by phone, email, in-person, through the mail, or online. A report to the Title IX Coordinator does not automatically initiate an investigation. Contact information for the Title IX Coordinator is:

Title IX Coordinator and Compliance Administrator  
[titleix@una.edu](mailto:titleix@una.edu)  
202 Guillot University Center  
UNA Box 5023 Florence, AL 35632  
(256) 765-4223  
Reports can also be made online by visiting [www.una.edu/titleix](http://www.una.edu/titleix)