

CIS 376 *Web Development*

Course Syllabus, SPRING 2020¹

Course Summary

Course Detail

Name Web Development
Number CIS 376
Section 01
Term Spring 2020
CRN 20947
Delivery Traditional classroom
Homepage una.instructure.com

Class Meetings, SPRING 2020

Days 11am-12:15pm
Times Tuesdays & Thursdays
Room Keller #220

Course Instructor

Instructor Barry A. Cumbie, Ph.D.
 Associate Professor, Department of Computer Science & Information Systems
Salutation Dr. Cumbie or Professor Cumbie
Phone (256) 765-4783
Email bcumbie@una.edu
Office Keller #249
Office Hours Tuesdays & Thursdays, 12:30pm-3:30pm

Dr. Cumbie's Academic Calendar

Class Calendar, SPRING 2020

30 class meeting days + Final Exam

Jan 09 - First Class	Mar 23-27 - Spring Break
Jan 15 - Registration Ends	April 9-16 - Virtual Classes (Cumbie in China)
Jan 16-Apr 16 - Drop Period	April 27 - Last Class
Feb 28 - Midterm	May 1 - Final Exam

Academic Calendar *Final Exam Schedule*

¹ Disclaimer: Please consult the *University Catalog* & *UNA Portal* for official and current policies and information.

Course Materials & Requirements

Required Textbooks



- Duckett, J. (2014).
- *HTML & CSS: Design & Build Websites*, 1st. Wiley.
- ISBN-10: 1118008189
- ISBN-13: 978-111800818
- <http://www.htmlandcssbook.com>



- Duckett, J. (2014).
- *JavaScript and jQuery: Interactive Front-End Web Development*, 1st. Wiley.
- ISBN-10: 1118531647
- ISBN-13: 978-1118531648
- <http://www.javascriptbook.com>

TEXTBOOK INFORMATION

- Generally sold in a package, \$26 on Amazon (13 DEC 2019)
- Used books are acceptable
- Seriously, programming books from 2014?
- Yes, I know, I know. These are very good and staples among devs & are totally worth it.

Required Resources

GITHUB ONLINE ACCOUNT

- 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://codecademy.com) (for Bonus assignments)
- Only free accounts are required, no premium or paid access
- Students may use a temporary, disposable email address, e.g., sharklasers.com

COMPUTING DEVICE & INTERNET ACCESS

- On Campus - Collier Library, CS&IS Computing Lab in Keller #333

Recommended Resources

- Thumb drive
- Cloud-based storage, e.g., *Google Cloud*, *MS OneDrive*

General Course Information

Course Description

A fundamental course in Web Development utilizing contemporary standards, methods, and tools for students to develop skills in creating and deploying web-based content. Students learn development concepts spanning markup and programming languages and libraries, local and hosted environments, versioning control systems, and development tools.

Course Learning Objectives

The objectives of this course are for students to:

1. relate web development concepts and terminology,
 2. demonstrate the usage of web development technologies,
 3. develop web-based content,
 4. determine deficiencies in web-based interface design, &
 5. create improved web-based interfaces
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Course Topics

Languages & Libraries

- *HTML5, Markdown, CSS3, JavaScript/ECMAScript, jQuery, Bootstrap 4*

Knowledge & Skills

- Web Developer lexicon
- markup, page layouts, behavior, and interaction
- Document Object Model manipulation, JavaScript Object Notation
- Web Dev Ecosystem
 - File naming, directory/repository configuration, compression, exporting/cloning, hosting configuration/architecture,
 - testing & debugging
- 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
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*Course Objective Map to Program, College, & Cognitive Objectives **

#	CIS 376 Objective	CIS SLO	IT SLO	COB SLG	Bloom's
1	Relate web development concepts and terminology	-	-	-	I
2	Demonstrate the usage of web development technologies	1	1	-	II
3	Develop web-based content	2	2	2b	III
4	Determine deficiencies in web-based interface design	4	4	3	V
5	Create improved web-based interfaces	2, 6	2, 6	2b	VI

**CIS & IT Student Learning Outcomes, COB Student Learning Goals, Bloom's Taxonomy*

Prerequisites

CIS 225 - *Introduction to Object-Oriented Programming*

CIS 236 - *Management Information Systems*, minimum grade of C

Subsequent Courses

CIS 376 is a required course in the CIS and IT Programs and is a prerequisite to the following courses:

Course	CIS Majors	IT Majors
CIS 476 - <i>Enterprise Architecture</i>	Required	Required
CIS 445 - <i>Advanced DBMS</i>	Elective	Required

CIS 376 is an elective course for CS and GIS Programs provided students meet the prerequisite courses.

Course Connection Statement

Coming Soon!

How this course builds from the prerequisite courses and connects to subsequent courses and its overall fit into the program.

Course Evaluation Scores & Student GPA

Year	Term	GPA*	Online	Class	Enrolled	Evaluation
2019-2020	Fall '19	2.45	✓		22	Coming Soon!
	Spring '20	TBD		✓	TBD	
	Summer '20	TBD	✓		TBD	
2018-2019	Fall '18	2.42		✓	14	
	Spring '19	2.91	✓		32	
	Summer '19	3.88	✓		8	
2017-2018	Fall '17	3.08		✓	13	
	Spring '18	3.17		✓	23	
2016-2017	Fall '16	2.88		✓	8	
	Spring '17	2.86	✓		8	
2015-2016	Fall '15	3.3		✓	15	

Cumulative Scores for online, classroom and overall: Coming Soon!

Course Offerings

Open Registration, CIS-376

Section	Term	CRN	Delivery	Enrollment	Instructor
01	Spring 2020	20947	Classroom	20 of 30 ¹	Dr. Cumbie
101	Summer 2020	30697	Online	2 of 30 ^{1,2}	Dr. Cumbie

¹As of 13 DEC 2019. ²Pending Sufficient Demand

Projected Course Offering Pattern, CIS-376

101	Fall 2020	-	Online	30 max	Dr. Cumbie
01	Spring 2021	-	Classroom	30 max	Dr. Cumbie
101	Summer 2021	-	Online	30 max	Dr. Cumbie

Course Assignments, Grading, & Policies

Percent	Points	Assignment
25%	300	Ten Development Exercises @ 30 points (+2 15 point bonuses)
25%	150	12 Content Quizzes @ ~15 points (2 lowest scores dropped)
25%	200	Two Development Projects @ 100 points (+2 10 point bonuses)
25%	200	Two Examinations: Midterm & Final + Class Attendance (+1 5 point bonus)
100%	850	

GRADING SCALE	A: 90-100%	B: 80-89%	C: 70-79%	D: 60-69%	F: Below 60%*
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*AUTOMATIC FAILURE

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

INCOMPLETE

- Incomplete grades may be assigned for students in the event of extraordinary circumstances that prevent completion of the course and whose progress in the course has been otherwise satisfactory
- The student must initiate this request and include a petition in writing via *Canvas Inbox*
- If approved by the instructor, the student is responsible for devising a timetable to complete the work and submission procedures with the instructor
- In accordance with the University Catalog, all work must be completed in the following term. Unaddressed incomplete grades are rolled over into a grade of "F"

Additional Assignment Details & Policies

CONTENT QUIZZES

- Twelve total quizzes comprising 25% of overall grade
 - Six from each book covering about 3 chapters per quiz
- Two lowest scores dropped, top 10 quiz scored graded
- Timed at 40 minutes, one attempt, open book, taken outside of class
- No late quiz submissions are accepted

LATE ASSIGNMENTS

- No late quiz submissions are accepted
- Development Exercises and Projects are penalized at 10% points per day late
- No Final Projects accepted after the Final Exam begins

EXAMINATIONS

- Two examinations, one Midterm and one Final, together (with course attendance) count for 25% of the overall course grade
- Exams are non-cumulative
- Exams are in-class in a proctored testing environment and without external resources
- Use of electronic devices during exams is strictly prohibited and all devices and materials should not be in view

MAKE-UP EXAMINATIONS

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

ATTENDANCE

- Class attendance is required and graded
 - partial credit is given for late arrival or early departure
 - grades are recorded and scored in *Canvas*
- For non-examination days, one excused absence is granted to all students with prior notification
- 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

EXCEPTIONS

- Extensions - Considered on a case-by-case basis and require pre-approval
- Extra Credit - Additional extra credit are given at the discretion of the instructor and are considered only for students who have submitted all other bonus assignments and meet 85% class attendance

GRADE DISPUTES

- Please submit possible grading errors or disputes via *Canvas Inbox* within one week of the the grade posting.
- Please include all pertinent information including the specific assignment, question number and 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.

College & University Policies

Minimum Technical Skills Expected

- Basic Computing skills: using applications, Internet browsing, email usage, up/downloading files.
- Canvas: Login access and ability to navigate *Canvas* (*Canvas How To Guides*)

UNA Technical Support

CANVAS SUPPORT

- From *Canvas* (una.instructure.com),
 - Click the *Help* icon on your navigation menu
 - and then click *Report a Problem* to submit a ticket to *Canvas Tech Support*.
- If you cannot log-in to *Canvas*, then please email UNA Information Technology Services (ITS) Support at helpdesk@una.edu.
 - Include your full name, UNA email address, an alternative email address (if applicable), and a phone number where you can be reached.
- Canvas FAQs: <http://www.una.edu/distance/help/canvas.html>

UNAPortal FAQ: www.una.edu/faq/

UNA Information Technology Services Support: helpdesk@una.edu (from your UNA portal email account if possible)

Microsoft Office 365 Download: <http://www.una.edu/its/Office365Advantage/studentsFreeOffice.html>

UNA Portal & Email

- UNA Portal and UNA Portal Email are the University's official communication channels.
- Information regarding University deadlines, policies, and events is transmitted via UNA Portal Email.
- UNA Portal Email is not the same as *Canvas Inbox*, which is the communication channel for a specific course.

Title IX

Title IX is a federal civil rights law in the United States of America

No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance.

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. This includes sexual violence, sexual harassment, domestic and intimate partner violence, stalking, gender-based discrimination, discrimination against pregnant and parenting students, and gender-based bullying and hazing.

Faculty and staff are required by federal law to report any observation 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 discrimination and harassment may be accessed at <https://www.una.edu/titleix/index.html>

REPORTING DISCRIMINATION OR HARASSMENT

If you have experienced or observed discrimination or harassment, confidential reporting resources can be found on the website or you may make a formal complaint by contacting the Title IX Coordinator at [256-765-4223](tel:256-765-4223).

Information Technology Acceptable Use Policy

- The Information Technology Acceptable Use Policy governs the use of computers, networks, and other information technologies at the University of North Alabama.
- This policy applies to all students and employees of the University, and to all other persons who may legally or illegally use or attempt to use a computer resource owned by the University, and/or is connected by any means to the campus computing network.
- As a user of these resources, you are responsible for reading and understanding this policy.

[Acceptable Use IT Policy](#)

Academic Honesty

Students are expected to be honorable and observe standards of conduct appropriate to a community of scholars. Additionally, students are expected to behave in an ethical manner. Individuals who disregard the core values of truth and honesty bring disrespect to themselves and the University. A university community that allows academic dishonesty will suffer harm to the reputation of students, faculty and graduates. It is in the best interest of the entire university community to sanction any individual who chooses not to accept the principles of academic honesty by committing acts such as cheating, plagiarism, or misrepresentation. Offenses are reported to the Vice President for Academic Affairs and Provost for referral to the University Student Discipline System for disposition.

[Academic Dishonesty Incident Report](#)

Students with Disabilities

- 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. Under Title II of the Americans with Disabilities Act (ADA) of 1990, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Amendment Act of 2008, a disability is defined as a physical or mental impairment that substantially limits one or more major life activities as compared to an average person in the population.
- It is the responsibility of the student to contact 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. Students needing assistance should contact Disability Support Services.
- Complete guidelines and requirements for documentation can be found on the DSS web pages.

[UNA Disability Support](#)

Course Withdrawal

The decision to withdraw from a course is that of the students; however, I recommend that you speak with your course instructor, academic advisor, and office of financial aid to understand the ramifications.

This policy replaces the previous WP/WF Periods & withdrawal by email process

Withdrawal Periods

PERIOD	DEADLINE	REFUND	TRANSCRIPT	GPA
DROP	about 1 week after the first day of class	100% of tuition & dues	Not affected	Not include in GPA
WITHDRAWAL	about 2 weeks before the last day of class	none	Grade of "W"	Not include in GPA
NONE	n/a	none	Final Course Grade	Final Course Grade

Additional Considerations

Financial Aid	<ul style="list-style-type: none"> Students receiving Financial Aid should check with the Student Financial Services before withdrawing from classes. Student progress toward degree completion is checked every semester for students receiving federal grants and loans. Students must pass and complete 75% of all work attempted to maintain financial aid.
Student Athletes	<ul style="list-style-type: none"> Student Athletes should check with the Athletic Department as course withdrawal could affect eligibility for competition. For more detailed information, refer to the <i>UNA Catalog</i>.

How to drop or withdraw from a course

Access UNA Portal Portal Self-Service Registration


- Under Registration, select Add/Drop Courses,
- In the Action dropdown menu for the course, select Web Withdraw
- Click Submit.

[Academic Calendar](#) | [Withdrawal Webpage](#) | [UNA Catalog](#) | [Financial Aid](#) | [Registrar](#)

About Dr. Cumbie

Dr. Barry A. Cumbie is an Associate Professor of Computer Sciences and Information Systems at the University of North Alabama.

Academic Affiliations

UNIVERSITY OF NORTH ALABAMA  <ul style="list-style-type: none"> • Associate Professor, 2017-present • Assistant Professor, 2015-2017 	AUBURN UNIVERSITY  <ul style="list-style-type: none"> • Ph.D. Management of Information Technology and Innovation, 2008 • M.S. MIS 2004 • B.S. MIS 1999
UNIVERSITY OF SOUTHERN MISSISSIPPI  <ul style="list-style-type: none"> • 嘉悦大学 (Kaetsu) Distinguished Professor of International Business, 2015-2015 • Assistant Professor, 2008-2014 	GRISSOM HIGH SCHOOL  <ul style="list-style-type: none"> • Class of 1997 • Huntsville, Alabama

Places Lived



Dev Profiles | BARRYCUMBIE



GITHUB



CODEPEN



GCLLOUD



GITKRAKEN



TRELLO

Interests



Teaching ScheduleSpring 2020, Current

CIS 376-01 Tuesdays & Thursdays, 11-12:15 Keller #220
 CIS 486-01 Tuesdays & Thursdays, 3:30-4:45 Keller #211
 CIS 622-I03 online, first 8 weeks
 CIS 622-I13 online, second 8 weeks
 CIS 625-P07 April in Suzhou, China

Summer 2020, Scheduled

CIS 622 online
 CIS 376 online

Fall 2020, Projected

CIS 376 online
 CIS 486 classroom
 CIS 622 first 8 weeks
 CIS 625 November in Taipei, Taiwan

RESEARCH

Dr. Cumbie's research interests include the adoption and usage of technological innovations, particularly large, institutional-wide systems including enterprise-wide, community-wide systems, and e-government. His research is published in the *International Journal of Electronic Government Research*, *Knowledge Management & E-Learning*, *Journal of Systemics*, *Cybernetics*, and *Informatics*, *Information Technology for Development*, *International Journal of Information Systems in the Service Sector*, *Information Systems Frontiers*, *Journal of Contingencies and Crisis Management*, *Journal of Information System Security*, and the *Journal of Information Technology Theory and Application*.
