

CIS 2336—INTERNET APPLICATION DEVELOPMENT, SEMESTER FALL 2022

Sect 12512 (Wednesday 05:30 pm - 07:00 pm)

Credit Hours: 3

Location: SAB1 249 (Sugarland Campus)

Course Description: Cr. 3. (3-0). Prerequisites: C or better in COSC 1336. Internet and World Wide Web technologies. Development and maintenance of Web sites and Web applications.

Instructor Information: Name: Dr. Ron Viseh
E-mail: mvisseh@central.uh.edu
Website: <https://ron.viseh.com>

NOTE: *Please only use your UH.edu email to communicate with me. I will not respond to 3rd party emails such as, GMAIL, YAHOO, or others.*

Other: Some course information is available via the Web through Blackboard. Go to www.uh.edu/blackboard and log in to Blackboard.

Even though there is a Blackboard course site with course information, some course information may be delivered only in class

Class Sessions: Using GoToMeeting: <https://meet.goto.com/532963141>

The first day of this class (orientation) is on GoToMeeting using above link.

Office Hours (Prior appointment needed) <https://meet.goto.com/119533261>

Course Goals: CIS 2336 is a one-semester, sophomore level course that introduces many technologies that contribute to sophisticated information systems and applications readily available via the World Wide Web and Internet today. The technologies include markup languages such as HTML and XML, structured data formats such as CSS for styling HTML, client-side coding for building dynamic and interactive applications using ECMA6 compliant JavaScript and server-side coding for enabling and building dynamic and interactive content into applications.

Because the technologies are many, the course provides an overview and introduction together with hands-on exercises and assignments. The only way to become proficient with these technologies is to work with them hands-on, possibly for many, many hours. Thus, proficiency in one semester is not possible, but an overview of the technologies with some hands-on experience is. That is what the course delivers along with a conceptual understanding of how the different pieces work together to deliver the high-quality web applications of today's World Wide Web. The course provides a

foundation for more in depth learning and prepares students for upper division courses and projects in CIS.

In addition, students are asked to reflect on the organizational context for web sites and web applications. E-commerce is a huge and important economic sector, and it is destined to continue to grow. Students need to understand that, while Internet technologies are interesting in and of themselves, they are commercially interesting only within an organizational context.

Course Objectives:

When a student completes CIS 2336, he or she will be able to:

- Compare and demonstrate web sites with static versus dynamic elements and content.
- List significant standards organizations relevant to the Internet and the World Wide Web including the Internet Society and the W3C Consortium.
- Using a text editor, create a web page document, upload it to a web server, and access it with a browser through its url.
- Demonstrate a web page being served by a web server to a browser versus a web page file being opened in a browser.
- Create and apply a CSS style sheet to a web page.
- Demonstrate the CSS grid layout model for web page design by creating a web page using it.
- Demonstrate the concept of liquid design by creating a web page and CSS style sheets that accomplish two distinct looks for identical content.
- Demonstrate the purpose of client side scripting by implementing a simple script written in JavaScript in a web page.
- Write working JavaScript elements that react to JavaScript events in a web page.
- Write working JavaScript elements based on a stated business purpose.
- Apply JavaScript events and code elements to the Document Object Model (DOM) to create dynamic web pages.
- Demonstrate the purpose of server-side programming technologies for Web application development.
- Utilize a JavaScript user interactivity framework for creating user interface elements for a web application.

Create a simple web application that dynamically updates data based on queries to a database. The back-end functionality may be delivered through the API for a web service.

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Course

Every student must do the following:

Requirements:

- Have access to a computer with the MS Windows (OS) environment, MS Office 2016, Speaker, Mic and Web cam.
- Access course information through Blackboard and Microsoft Teams. Reliable access to the Internet from home is mandatory.
- Complete assigned readings, hands-on exercises, learning assignments, tutorials, and in-class activities. Watch and listen to assigned videos. Most assignments require the use of a computer. Computer assignments may be completed in a College of Technology (CoT) computer lab or at home if the student has the appropriate hardware and software.
- Use software compatible with the course materials. Required software is available in CoT computing labs. Efforts are made to select software that has a free, although possibly more limited, version available for student installation on a personal computer.
- Complete quizzes and a final exam. Quizzes and the final exam cover material from the text, assignments, and lectures. The final exam is comprehensive and must be completed at the scheduled final exam time on campus.

Attendance:

- Every student must attend scheduled classes. Some information is given *only* in class. Make arrangements with another student regarding missed in-class information.

Writing for Assessments

Everything you turn in that involves writing is assessed for proper grammar, correct spelling, and cohesiveness with respect to structure and thought. The assessment of writing skill significantly impacts the score on every assignment that requires writing.

Assignments:

Students must complete numerous assignments.

The average of the assignment grades contributes 25% of the final course average.

In-class Assignments

There may be short in-class assignments due during most classes. If you miss class, there is no way to make these up.

Exam 01 and Exam 02:

The average of the Exam 01 contributes 25% of the final grade in the course. The Exam 02 contributes 25% of the final grade in the course. Quizzes and the final exam cover lecture, in-class exercises, other exercises, reading assignments, and video assignments. Quiz due dates are scheduled in the syllabus.

The comprehensive final exam is given according to the official UH final exam schedule (go to <http://www.uh.edu/academics/courses-enrollment/final-exam-schedules/>). The final exam is given on campus.

Web Project

You may expect a web project during the semester. Such a project would factor into the 25% of your Exams and Major Project portion your grade.

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Late Work: *Late work receives the same grade as no homework—zero.*

Grades: Assignments: 25%
Final Web Project: 25%
Exam 01: 25%
Exam 02: 25%

Total: 100%

No Incomplete Grades will be given -- **Do Not Ask!**

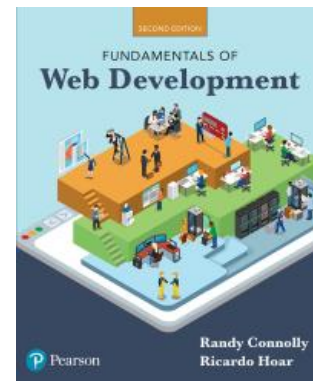
Plagiarism or cheating of any type will result in an automatic F.

I retain the right to subjectively evaluate an individual student's grade in appropriate cases. I also retain the right at a later date to determine if I will assign plusses and/or minuses to a letter grade.

90%+ of all Points	A range
80 – 89% of all Points	B range
70 – 79% of all Points	C range
60 – 69% of all Points	D range
< 60% of all Points	F

Textbooks: To successfully complete the course, each student must have access to the required textbook.

Fundamentals of Web Development 2e
Randy Connolly and Ricardo Hoar
©2018 Pearson
Print ISBN: 9780134481267
eText ISBN: 9780134481807,
0134481801



Plagiarism:

Description of Plagiarism:

Plagiarism is the use of someone else's words or ideas without giving them credit. Plagiarism is fairly easy to detect with today's modern tools. In the academic world, plagiarism is a serious matter; it is a form of academic dishonesty. There are two kinds of plagiarism--intentional and unintentional.

Intentional plagiarism occurs when writers or researchers know full well they are presenting someone else's words or ideas as their own. Purchasing pre-written research papers through the mail or via the Internet is a blatant (and easy to detect) form of intentional plagiarism.

Copying someone else's computer program or application files, changing a few lines of code, and turning them in as your own is also plagiarism. This is cheating. It is also easy to detect.

Unintentional plagiarism is more common than the intentional type. It occurs when writers and researchers use the words or ideas of others but fail to give credit to the source--because they either don't know when to give credit or don't know how to give credit.

If another student or the internet gives you ideas about what code structure is needed to accomplish certain functionality in an application, but you write the code lines and make them work on your own, this is not unintentional plagiarism. It is OK. If you copy another student's code, then that is plagiarism, and it is not OK.

Avoiding Plagiarism:

When to give credit

You need to give credit when you directly quote someone else's words or use their ideas in your own words.

Direct quotation is using someone else's words exactly as they were written in the original source. When you quote, you must use quotation marks or (for lengthy quotations) indentation to indicate which words you quoted. You must also give credit to whoever originally wrote or spoke the words.

Sometimes you can find complete code elements on the Internet. If you do this and use something like this, you should credit the source by including a comment line stating where you got the code.

Paraphrasing is taking someone else's idea and putting it into your own words. You do not need to put quotation marks around a paraphrase, but just as with a quotation you must give credit to the originator of the idea you are paraphrasing.

With respect to programming, sometimes a classmate or friend will help you by suggesting a coding strategy to use for a particular functionality. You do not have to credit the source in this case.

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Avoiding Plagiarism:

When do you not have to give credit?

You don't have to give credit when you are expressing your own ideas in your own words or when you are expressing common knowledge. Common knowledge includes ideas or facts that are so widely accepted that it is not necessary to cite a source. For example, the height of the Empire State Building is common knowledge because there is no serious disagreement over the height and because this information can be found and verified in a number of different sources.

In the world of programming, various sorting algorithms, for example, are well documented in the literature. You do not have to give credit when you implement an algorithm developed by someone else. You also do not have to give credit when you use code encapsulated as objects/classes in public or proprietary class code libraries.

Avoiding Plagiarism:

How to give credit

You give credit by citing information you use in your papers and reports. Software such as EndNote and RefWorks can help you create correct citations.

Use comment lines in code modules to credit the source of the code.

Academic Honesty Policy:

Students are expected to abide by the university's academic honesty policy in all matters concerning this course. Refer to <http://www.uh.edu/academic-honesty-undergraduate>.

Time Requirements:

The class is scheduled in a hybrid format to meet on campus for one and one-half hours each week. In addition, hands-on lab activities are to be completed on your own computer, and these consume one and one-half hours or more each week. Additional hours are also required. There is a general 'rule-of-thumb' that pursuing 1 hour of college credit during a regular semester requires an average student to spend 1 hour per week in the classroom plus a *minimum* of 3 more hours per week outside of class studying, working on assignments, doing research, etc. Some students need to spend more time on some courses. This means a student in CIS 3355 should budget about 12 hours per week to spend on the course material (including class time).

Other Policies:

Grade Less Than C for ILT Majors

ILT majors (CIS, TELS, and SCLT) who do not make a C or better in any courses required for their specific major must retake the course. A course may be taken only 3 times.

Extended Absence

In the event of an extended absence, consult the Vice Provost for Student Affairs to determine whether a medical withdrawal is appropriate.

Student Accommodations Under the Americans With Disabilities Act

When possible, and in accordance with 504/ADA guidelines, the instructor will attempt to provide reasonable academic accommodations to students who request and require them. Students with special needs should inform the instructor at the beginning of the semester.

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Services for Students with Disabilities

The University of Houston seeks to ensure that the educational resources it offers are as widely accessible as possible.

For detailed information, including documentation requirements, listings of available academic support services, test administration policies, parking accommodations/requirements, and more, please refer to the web site for the Justin Dart Jr. Center for Students with Disabilities at <http://www.uh.edu/csd/>.

The Justin Dart Jr. Center for Students with Disabilities is located in CSD Building #568, Room #110. The phone number is (713) 743-5400, or you may send email to uhcsd@uh.edu.

UH CAPS

Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS (www.uh.edu/caps) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. No appointment is necessary for the “Let's Talk” program, a drop-in consultation service at convenient locations and hours around campus.

http://www.uh.edu/caps/outreach/lets_talk.html

Student Absences on Religious Holidays

Section 51.911 of the Texas Education Code requires that an institution of higher education shall allow a student who is absent from class for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. The student, not later than the 15th calendar day after the first day of the semester, or the 7th calendar day of a summer session, must notify the instructor of each scheduled class day that he/she would be absent for a religious holy day. Refer to the Academic Calendar for the deadline date for notification by students to the faculty members of the student's intent to be absent on religious holy days.

Computer Problems

Computer problems, especially problems encountered at home, are not an excuse for not completing an activity or assignment on time. Plan ahead and don't wait until the last moment to submit an assignment or exam.

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Other

Information:

Academic Calendar

The Academic Calendar for the current academic year and semester can be found at www.uh.edu/academics/catalog/academic-calendar/.

Find an Advisor

Students who have been admitted to a particular college or department should seek advising from there. Information about advising and advisors in the College of Technology can be found at <http://www.uh.edu/technology/advising/>.

Undergraduate students who have not chosen a major should seek information using <http://www.uh.edu/ussc/exploratorystudies/> or at 713-743-8985. For further information, please review the Programs and Degrees section of the Undergraduate Studies Catalog. The catalog is found at www.uh.edu/catalog-undergraduate.

And Don't Forget:

Have a GREAT semester!!!!

EMAIL

This semester I have many students from different classes. To help you, I need to know who you are, which class you belong to, and the nature of your question. So it is very important to follow this procedure regarding sending emails:

Give an appropriate subject line: the subject line of every email **must** have:

Your last name, class number, class section and the activity you are questioning

Example: smith, CIS 2336, 19830, project question

Example: smith, CIS 2336, 19830, general question

If I answered your question, but you have a follow-up question, then click on "reply" and type your new question at the top of the email chain.

Failure to put the correct information in the subject line could mean that you miss the deadline for the activity because the email will be returned to you requesting the appropriate subject line.

Do not type entirely in caps when sending an email. It is considered rude and is equivalent to raising your voice. Typing portions of text in caps should only be done for emphasis!

STUDENT ACCOMMODATIONS UNDER THE AMERICANS WITH DISABILITIES ACT

When possible, and in accordance with 504/ADA guidelines, we will attempt to provide reasonable academic accommodations to students who request and require them. Please call the Center for Students with Disabilities at ext 3-5400 for more assistance.

STUDENTS WITH SPECIAL NEEDS SHOULD INFORM THE INSTRUCTOR AT THE BEGINNING OF THE SEMESTER. YOU SHOULD REQUEST YOUR ACCOMMODATIONS BE SENT TO YOUR INSTRUCTORS VIA THE ONLINE PORTAL AT THE BEGINNING OF EACH SEMESTER. FOR INSTRUCTIONS ON HOW TO SUBMIT THIS REQUEST, PLEASE CONTACT YOUR ASSIGNED ACCESS COORDINATOR.

<https://uh.edu/accessibility/>

Course Delivery Format and final exam format:

Face-to-Face Courses: This course is being offered in the Face-to-Face format. Lectures and participation occur in-person and in real time. I also provide live streaming of my Lectures via GoToMeeting application and recoding the sessions. The final exam for this course will be given per the [University schedule](#).

INFORMATION TECHNOLOGY USED IN THIS COURSE:

The CIS/DIGM/TLIM program requires every student majoring in CIS/DIGM/TLIM to have their own laptop computer. For more information about laptop requirements, see:

[Laptop Recommendations - University of Houston \(uh.edu\)](#) (CIS)

[Degree Requirements - University of Houston \(uh.edu\)](#) (DIGM)

Software requirements plus other hardware required for this course include: (list any software or hardware requirements)

- USB flash drive for backing up work
- MS Teams, Zoom, and Blackboard
- Webcam
- Respondus Lock-Down Browser
- MS Windows 10 or higher
- MS Office 2019 or higher

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All of the software except MS Office are available for download and installation on your personal computer courtesy of Azure Dev Tools for Teaching. Office 365 is free to you as a student. For additional information, please visit the following:

<http://www.uh.edu/technology/college/technical-support/general-faq/>

ILT ACADEMIC PREREQUISITE AND PROGRESSION REQUIREMENTS:

The Information & Logistics Technology Department strives to create the proper academic conditions for student success. Course content, technical skill development, professional practice in education, and program accreditation by professional organizations support using minimum grade or GPA requirements to enforce a program prerequisite structure. This practice, in turn, supports student success. Thus, course prerequisites are strictly enforced in all ILT Department courses.

The UH Interim Grading Policy applicable for 2020 and Spring 2021 explicitly stated that a program, department, or college may enforce a prerequisite or minimum GPA policy. Therefore, it is the policy of the ILT Department that the Catalog prerequisite structure and associated minimum grade or GPA requirements for its programs and courses be enforced for previous semester grades that lead into Fall 2021 and beyond. This means that, even when Satisfactory (S) was the reported grade in Fall 2020 or Spring 2021, the letter grade assigned by the instructor determines whether the student has met the prerequisites for a future course. This helps to ensure students have the correct levels of knowledge to advance in the program and to prevent poor student outcomes in courses due to lack of prerequisite knowledge.

Syllabus Changes:

Due to the changing nature of the COVID-19 pandemic, please note that the instructor may need to make modifications to the course syllabus and may do so at any time. Notice of such changes will be announced as quickly as possible

UH Email:

Use your Cougarnet email for communications related to this course. The professor will not respond any third party email address. To access this email, [login](#) to your Microsoft 365 account with your Cougarnet credentials. For project related questions use your private Teams Channel or if you send me email cc to all other team members too.

COVID 19 Latest Update & Decisions:

Please visit the university of Houston website for latest update:

<https://uh.edu/covid-19/>

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If you are experiencing any COVID-19 symptoms that are not clearly related to a pre-existing medical condition, do not come to class. Please see [Student Protocols](#) for what to do if you experience symptoms and [Potential Exposure to Coronavirus](#) for what to do if you have potentially been exposed to COVID-19. Consult the (select: [Undergraduate Excused Absence Policy](#) or [Graduate Excused Absence Policy](#)) for information regarding excused absences due to medical reasons.

COVID-19 Information

Students are encouraged to visit the University's [COVID-19](#) website for important information including diagnosis and symptom protocols, on-campus testing, and vaccine information. Please check the website throughout the semester for updates.

Vaccinations

Data suggests that vaccination remains the best intervention for reliable protection against COVID-19. Students are asked to familiarize themselves with pertinent [vaccine information](#) and to consult with their health care provider. The University strongly encourages all students, faculty and staff to be vaccinated.

Reasonable Academic Adjustments/Auxiliary Aids

The University of Houston complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, pertaining to the provision of reasonable academic adjustments/auxiliary aids for disabled students. In accordance with Section 504 and ADA guidelines, UH strives to provide reasonable academic adjustments/auxiliary aids to students who request and require them. If you believe that you have a disability requiring an academic adjustments/auxiliary aid, please contact [the Justin Dart Jr. Student Accessibility Center](#) (formerly the Justin Dart, Jr. Center for Students with DisABILITIES).

Excused Absence Policy

Regular class attendance, participation, and engagement in coursework are important contributors to student success. Absences may be excused as provided in the University of Houston [Undergraduate Excused Absence Policy](#) and [Graduate Excused Absence Policy](#) for reasons including: medical illness of student or close relative, death of a close family member, legal or government proceeding that a student is obligated to attend, recognized professional and educational activities where the student is presenting, and University-sponsored activity or athletic competition. Under these policies, students with excused absences will be provided with an opportunity to make up any quiz, exam or other work that contributes to the course grade or a satisfactory alternative. Please read the full policy for details regarding reasons for excused absences, the approval process, and extended absences. Additional policies address absences related to [military service](#), [religious holy days](#), [pregnancy and related conditions](#), and [disability](#).

Recording of Class

Students may not record all or part of class, livestream all or part of class, or make/distribute screen captures, without advanced written consent of the instructor. If you have or think you may have a disability such that you need to record class-related activities, please contact the [Justin Dart, Jr. Student Accessibility Center](#). If you have an accommodation to record class-related activities, those recordings may not be shared with any other student, whether in this course or not, or with any other person or on any other platform. Classes may be

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recorded by the instructor. Students may use instructor's recordings for their own studying and notetaking. Instructor's recordings are not authorized to be shared with *anyone* without the prior written approval of the instructor. Failure to comply with requirements regarding recordings will result in a disciplinary referral to the Dean of Students Office and may result in disciplinary action.

Syllabus Changes

Due to the changing nature of the COVID-19 pandemic, please note that the instructor may need to make modifications to the course syllabus and may do so at any time. Notice of such changes will be announced as quickly as possible through (*specify how students will be notified of changes*).

Resources for Online Learning

The University of Houston is committed to student success, and provides information to optimize the online learning experience through our [Power-On](#) website. Please visit this website for a comprehensive set of resources, tools, and tips including: obtaining access to the internet, AccessUH, and Blackboard; requesting a laptop through the Laptop Loaner Program; using your smartphone as a webcam; and downloading Microsoft Office 365 at no cost. For questions or assistance contact UHOnline@uh.edu.

UH Email

Please check and use your CougarNet email for communications related to this course. To access this email, [login](#) to your Microsoft 365 account with your CougarNet credentials.

Webcams

Access to a webcam is required for students participating remotely in this course. Webcams must be turned on (*state when webcams are required to be on and the academic basis for requiring them to be on*). (*Example: Webcams must be turned on during exams to ensure the academic integrity of exam administration.*)

Academic Honesty Policy

High ethical standards are critical to the integrity of any institution, and bear directly on the ultimate value of conferred degrees. All UH community members are expected to contribute to an atmosphere of the highest possible ethical standards. Maintaining such an atmosphere requires that any instances of academic dishonesty be recognized and addressed.

The [UH Academic Honesty Policy](#) is designed to handle those instances with fairness to all parties involved: the students, the instructors, and the University itself. All students and faculty of the University of Houston are responsible for being familiar with this policy.

Title IX/Sexual Misconduct

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Per the UHS Sexual Misconduct Policy, your instructor is a “responsible employee” for reporting purposes under Title IX regulations and state law and must report incidents of sexual misconduct (sexual harassment, non-consensual sexual contact, sexual assault, sexual exploitation, sexual intimidation, intimate partner violence, or stalking) about which they become aware to the Title IX office. Please know there are places on campus where you can make a report in confidence. You can find more information about resources on the Title IX website at <https://uh.edu/equal-opportunity/title-ix-sexual-misconduct/resources/>.

Security Escorts and Cougar Ride

UHPD continually works with the University community to make the campus a safe place to learn, work, and live. Our Security escort service is designed for the community members who have safety concerns and would like to have a Security Officer walk with them, for their safety, as they make their way across campus. Based on availability either a UHPD Security Officer or Police Officer will escort students, faculty, and staff to locations beginning and ending on campus. If you feel that you need a Security Officer to walk with you for your safety please call [713-743-3333](tel:713-743-3333). Arrangements may be made for special needs.

Parking and Transportation Services also offers a late-night, on-demand shuttle service called Cougar Ride that provides rides to and from all on-campus shuttle stops, as well as the MD Anderson Library, Cougar Village/Moody Towers and the UH Technology Bridge. Rides can be requested through the UH Go app. Days and hours of operation can be found at <https://uh.edu/af-university-services/parking/cougar-ride/>.

Helpful Information

Coogs Care: <https://uh.edu/dsa/coogscare/>

Student Health Center: <https://www.uh.edu/healthcenter/> <https://www.uh.edu/healthcenter/>

Other important University Policies and Helpful Information:

UH DAPS: Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS (www.uh.edu/caps) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. No appointment is necessary for the “Let’s Talk” program, a drop-in consultation service at convenient locations and hours around campus.

http://www.uh.edu/caps/outreach/lets_talk.html

Coogs Care: <https://www.uh.edu/dsaes/coogscare/>

Laptop Checkout Requests: <https://www.uh.edu/infotech/about/planning/off-campus/index.php#do-you-need-a-laptop>

Student Health Center: <https://uh.edu/class/english/lcc/current-students/student-health-center/index.php>

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Tentative Course Schedule Outline

() No Late Submission with No Exception for Any Reason!*

Week	Dates	Lecture Topic	Assignments	Description
1	8/24	Orientation Introduction to Web Development <i>GoToMeeting</i>		<i>First day of class</i> Chapter 1
2	8/31	How the Web Works	NotePad++ Tutorial https://youtu.be/FOFgv_c6ZrQ	Chapter 2
3	9/7	HTML, How to Edit, & Upload	FileZilla Tutorial https://youtu.be/adxmlHDim6c	Chapter 3
4	9/14	HTML Tables and Forms	Lab 1 *	Chapter 5
5	9/21	CSS	Lab 1 & 2* Sass Crash Course https://youtu.be/Zz6eOVaaell https://sass-lang.com/	Chapter 4
6	9/28	JavaScript	Lab 3 *	Chapter 8
7	10/5	JavaScript	Lab 3 & 4*	Chapter 9
8	10/12	*** Midterm Exam *** 20 multiple-choice questions	*	<i>Exam on Blackboard</i>
9	10/19	Final Project Review <i>GoToMeeting</i>	Lab 5*	<i>Last day to drop a course or withdraw with a W</i> <i>11/16/2022</i>
10	10/26	JavaScript	Lab 6*	Chapter 10
11	11/2	JavaScript: jQuery	Lab 7*	
12	11/9	JavaScript: jQuery	Lab 8*	
13	11/16	XML JavaScript: Node.js JavaScript: Vue.js	Lab 9*	Chapter 19
14	11/23	*** Thanksgiving Holiday ***		
15	11/30	*** Final Project DUE ***	*	
16	12/12	*** Final Exam *** 20 multiple-choice questions <i>Exam on Blackboard</i>	CIS 2336-31 (12512) Monday, December 12 from 5:00PM - 8:00PM	
17	12/14	Official closing of the session	Instructor Grades Due	

