



## ITIS 3135-052 | Web-Based Application Design and Development | 3 credits

### Instructor

**Name:** Dr. Debarati Basu

**Email:** [debarati.basu@uncc.edu](mailto:debarati.basu@uncc.edu)

**Office Hours (Virtual):**

- **Tuesday – 7:30 – 8:30 pm**
- **For Student drop-in time other than the above office hour**
  - Send a message to me via Canvas with your availability for the week, and I will reply to you with a suitable time
- **For personal issues and concerns:**
  - Schedule an appointment with me via Canvas message
- **For course-related question**
  - post it on **Q & A Discussion** tab on Canvas so that our response can benefit you as well as your peers

Canvas messages will be returned within 48 hours Monday through Friday. If not urgent, you might not get a response to emails/messages over the weekend.

### Teaching Assistants

**Name:** Dhawala Bhagawat

**Email:** [dbhagawa@uncc.edu](mailto:dbhagawa@uncc.edu)

**Name:** Brian King

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**Name:** Jessica Russ

**Email:** [jruss8@uncc.edu](mailto:jruss8@uncc.edu)

*The time and links to join each one of our office hours are in the **Instructor and TA Introductions and Office Hours** page on Canvas*

## Course Description:

In this course, students will learn to design and develop interactive web-based applications. Topics include components of a web application, web design and development guidelines, programming languages for web applications, the Document Object Model (DOM), event-driven programming, and asynchronously exchange of data. You will need basic programming skills to join this course.

## Course Pre-requisite:

ITSC 2214

## Meeting Times:

### Online Synchronous Mode

Online Synchronous Session: 4 pm - 5:15 pm, Mondays

Online Synchronous Session: 4 pm - 5:15 pm, Wednesdays

During our synchronous sessions, we will meet over Zoom listed on Canvas (Zoom tab on the left navigation bar-> Find "ITIS 3135-Workshop"-> Click the "Start" button.)

Refer to Course Structure, Participation and Attendance section for details.

## Course Objectives:

- Identify the components of web applications
- Design webpages following web design guidelines and using a markup language and a style sheet language
- Develop interactions within a webpage using a scripting language
- Develop web pages that can asynchronously exchange data with a web server
- Present a completely developed interactive web application

## Required Materials:

- zyBook for ITIS 3135: Web-Based Application Design and Development
  1. Sign in or create an account at [learn.zybooks.com](https://learn.zybooks.com)
  2. Enter zyBook code: UNCCITIS3135BasuSpring2021
  3. Subscribe
- Murach's JavaScript and jQuery (3rd Edition)  
by Mary Delamater and Zak Ruvalcaba  
18 chapters, 632 pages, 252 illustrations  
Published February 2017  
ISBN 978-1-943872-05-3

**Course Topics:**

- HTML tags
- CSS tags
- Web Design
- JavaScript
- DOM
- Web Accessibility
- jQuery
- jQuery Plugins
- AJAX
- Web Security

**Grading Criteria:**

| Course Element                                 | Percentage |
|--|------------|
| Zybook Activities                              | 10%        |
| Quizzes (2 lowest grades dropped)              | 10%        |
| Exercises Activities (2 lowest grades dropped) | 25%        |
| Mid-Term Activity                              | 5%         |
| Active participation                           | 5%         |
| Interactive Web Application Project            | 40%        |
| Final Quiz                                     | 5%         |
| Total  | 100%       |

**Submissions:**

Canvas will be used for all the submissions in this course. Please read “Canvas, Grading Criteria, Course Activities, Feedback and Submissions” page on canvas for details.

**Grading Scale:**

A 100 % to 90.0%

B <90.0 % to 80.0%

C <80.0 % to 70.0%

D <70.0 % to 60.0%

F <60.0 % to 0.0%

## General Course Policies:

### Syllabus Revision:

I may modify the standards and requirements set forth in this syllabus at any time. Notice of such changes will be by announcement to you over Canvas and email, and any changes to this syllabus will be updated on the Canvas course.

### Credit Workload:

For an average, 3-credit course, you should plan to spend a minimum of 9 hrs. each week for approximately 15 weeks. This course, depending on your past experience with problem solving, and programming, and may require up to triple that minimum! The combination of understanding new concepts and development of programs, implementing those concepts is expected to raise the time requirement to something above minimum. Your work includes but not limited to: course readings, practice problems, quizzes, exercise activities, online discussions, reflection quizzes, mid-term activity, project assignments, and final quiz.

### Classroom Ambience:

**Respect.** We will conduct this class in an atmosphere of mutual respect. Everyone is encouraged to actively participate on class discussions. Together, we will strive to create a learning environment where we support diversity of thoughts, perspectives and experiences. This environment will help us to support, learn from each other, and succeed in this course. The instructional team will manage the discussions so that ideas, opinions and thoughts are not diverted from the topic of discussion. In case of misconduct or inappropriate behavior, actions will be taken. If you have any questions or concerns, please do not hesitate to contact me.

### Course expectations:

- **Participation.** You are highly encouraged to attend synchronous sessions, and we expect all of you to participate in all study group discussions, course discussions and activities. We also expect you to complete all course activities on time, submit required activities, and participate in all class activities for the duration of the semester. Attendance and participation will help you achieve the course objectives. Not attending or participating does not relieve a student of any course requirement. Failure to do all the activities in time will impact your ability to achieve course objectives which could affect your course grade. However, an unexcused course activity may prohibit you from submitting work for credit. Completing regular course activities is your obligation, as is a responsibility for all the work of course, mid-term and project.
- **Notification of Changes.** It is your responsibility to check the Canvas site, announcements on Canvas, and your email frequently; you are responsible for knowing the contents of the Canvas site at all times and you are responsible for everything I post on the Canvas announcement or send to your email address. If you be an active learner

and put in the required effort, you will succeed in this course. I will guide you to learn, remind you of activities and provide you with resources as much as possible.

- **Communication Etiquette.** It is important in this course that we all work together to develop a collaborative, safe, and friendly environment. One way of doing so is through good communication virtually. Please follow the **Learning Community and Communication Principles** on Canvas.

### **Course Structure, Participation and Attendance**

The typical expectation for attendance in a college course is that students show up to a classroom at their scheduled class meeting times. This course will be structured and delivery following a *synchronous online model*. That means that the class will offer only online components. The online components will offer both synchronous and asynchronous modalities.

All content will be delivered and available over Canvas to you.

**Prep-Work:** Every week, before Monday workshop time students are expected to complete the prep work that includes reading a textbook, reading and completing activities on an interactive online textbook, watching videos on course concepts, and completing a Canvas quiz.

**Monday or Wednesday workshop time (4 pm to 5:15 pm):** During these times, all students will be expected to attend and participate in an online synchronous Zoom meeting where students can connect with the entire instructional team including me. An overview of the weekly tasks will be given to you, and then as a class we will review and discuss the concepts for that week. Then the rest of the time will be utilized to answer your questions, engage, and help you in completing the weekly tasks. According to the study groups, you will be sent to breakout rooms to work on activities. Screen sharing will be used for looking into your code and answering questions. Online chat, and computer audio will be used to interact with students.

**Office hours:** The instructional team will be available to you at scheduled times during the week to meet virtually and get help on the course topics and activities. All student office hours will be virtual over Zoom and details is provided on Canvas.

**Q & A discussion tab on Canvas** will be used throughout the week to answer your questions asynchronously as you work on your course activities.

As you can notice, you will be able to complete all the course requirements virtually. Majority of the course activities can be completed on your own at your own flexibility, and even if you are not able to attend the synchronous sessions. However, ***I highly encourage you to join the online synchronous sessions on Zoom*** as it will help you to engage with your peers to discuss the course topics, participate in group activities, which can clear your misconceptions, and improve your understanding. These meetings are a great way to reinforce your learning, get answers to any questions you might have and improve your programming knowledge.

***Meeting all course expectations and task deadlines are your responsibilities.*** You are responsible for all assigned tasks. Start early and reach out immediately to the instructional team via the communication channels used for this course (Canvas, office hours, emails) if you run into difficulties with the course so that we can help you be successful. It will be difficult to help if you wait until the submission deadline of an activity or end of the semester to ask for help!

If you are sick or have some other valid reason for not being active in the class, you should send me an email as soon as able to. The Dean of Students Office can assist faculty members in the verification a student's class absence(s) for documented situation related to medical, psychological, personal crisis, or military absences. If an emergency situation arises that interferes with your ability to meet the course expectations for an extended period of time, please immediately go through the Office of the Dean of Students. Such emergencies often will impact more than one class and the office of the dean of students will advocate on your behalf to request accommodations for any affected classes.

### **COVID-19 Policy**

It is the policy of UNC Charlotte for the Spring 2021 semester that as a condition of on-campus enrollment, all students are required to engage in safe behaviors to avoid the spread of COVID-19 in the 49er community. Such behaviors specifically include the requirement that all students properly wear **CDC-compliant face coverings** while in buildings including in classrooms and labs. Students are permitted to remove face coverings in classroom or lab settings only when the instructional team explicitly grants permission to do so (such as while asking a question, participating in class discussion, or giving a presentation) and while at an appropriate physical distance from others. Failure to comply with this policy in the classroom or lab may result in dismissal from the current class session. If the student refuses to leave the classroom or lab after being dismissed, the student may be referred to the Office of Student Conduct and Academic Integrity for charges under the Code of Student Responsibility.

Students are encouraged to work directly with the instructional team regarding their absence(s). For absences related to COVID-19, please adhere to the following:

- **Do not come to class if you are sick.** Please protect your health and the health of others by staying home. Contact your healthcare provider if you believe you are ill.
- **If you are sick:** If you test positive or are evaluated by a healthcare provider for symptoms of COVID-19, complete this form to alert the University. Representatives from Emergency Management and/or the Student Health Center will follow up with you as necessary, and your instructors will be notified.
- **If you have been exposed** to COVID-19 positive individuals and/or have been notified to self-quarantine due to exposure, complete this form to alert the University. Representatives from Emergency Management and/or the Student Health Center will follow up with you as necessary, and your instructors will be notified.

To return to class after being absent due to a COVID-19 diagnosis or due to a period of self-quarantine, students should submit an [online request form](#) to Student Assistance and Support Services (SASS). Supporting documentation can be attached directly to the request form and should be from a student's health care provider or the Student Health Center, clearly indicating the dates of absences and the date the student is able to return to class. Instructors will be notified of such absences.

If you are absent from class as a result of a COVID-19 diagnosis or quarantine, the instructional team is committed to help you continue to make progress in the course such as accepting late work, consolidating assignments to make up for missed time, tutoring sessions to help get you caught up and ensure that asynchronous learning options are available. Communicating as much as possible with the instructional team can help reduce the impact on your progress and success in this course. Keep in mind that the final decision for approval of all absences and missed work is determined by me.

### **Absence from your participation in the Course**

- The authority to grant a student an academic accommodation (turn in a late assignment(s), provide extra time on an assignment, reschedule an exam(s) etc.) sits with the individual instructor.
- You are encouraged to work directly with me regarding class accommodation for medical appointments, military/court orders, and/or personal and family emergencies, such as a death in the immediate family, where a student is able to provide an instructor with appropriate supporting documentation of the absence. The final decision for approval of absences and missed work or make-up work is determined by me.
- The Office of Student Assistance and Support Services (SASS) can provide notification to faculty of emergency situations, when a student is unable to do so and when the office has been made aware of such emergencies. In such situations, the SASS office may also be able to assist with verification of such emergencies, once a student is able to return to classes. The SASS office does not provide verification of absences for car trouble, weather issues, personal activities, work, weddings, vacations, or University-sponsored events. Accommodation related to such activities should be discussed directly with the faculty member.
- Should a student need assistance from the SASS office in verifying an emergency situation, they can submit an [online request form](#) and attach supporting documentation. Please note that students are not required to go through the SASS office at any time regarding absence verification, and the SASS office does not have the authority to excuse absences, allow for make-up work, or provide other academic accommodations.
- In cases of absence due to pregnancy or parenting (pregnancy, childbirth, false pregnancy, termination of pregnancy, or recovery from any of these conditions), students should contact the Title IX Office to obtain absence verification by completing the form at <http://bit.ly/332eaGd>.

**Instructor or TA Absence**

- If your TA or I am late in arriving to virtual office hours, you must wait a full 20 minutes after the start of office hours before you may leave, or you must follow any written instructions I may have given you about my anticipated tardiness.

**Last Date of Attendance**

The United States Department of Education requires UNC Charlotte's Office of Financial Aid to determine if a student who receives financial aid and fails to earn a passing grade in a course has actually attended and/or completed the course. Because I do not take regular attendance for this course, the date I will report as your last date of attendance will be the latest of the following:

- The date you last participated in an online discussion or activity;
- The date you last submitted an assignment/project/test/tutorial/quiz; or
- The date you last initiated contact with me to ask a question about the course or course content.

If you earn an F grade, your last date of attendance will be reported to the United States Department of Education. This may require you to pay back any financial aid funds received for this course.

(For additional information, see [Last Date of Attendance FAQs](#) on the Registrar's website.)

**Inclusivity:**

***Preferred Name and Gender Pronoun:*** This course affirms people of all gender expressions and gender identities. If you prefer to be called a different name than what is indicated on the class roster, please let me know. Feel free to correct me on your preferred gender pronoun. If you have any questions or concerns, please do not hesitate to contact me.

***Non-Discrimination:*** We are all expected to engage with each other respectfully. Unwelcome conduct directed toward another person based upon that person's actual or perceived race, actual or perceived gender, color, religion, age, national origin, ethnicity, disability, or veteran status, or for any other reason, may constitute a violation of University Policy 406, The Code of Student Responsibility. Any student suspected of engaging in such conduct will be referred to the Office of Student Conduct for possible conduct action.



### **Academic Integrity, Plagiarism**

You are required to read and abide by *The Code of Student Academic Integrity*. Violations of the Code of Student Academic Integrity, including cheating, plagiarism, fabrication or falsification of information, multiple submission of academic work, and abuse of academic materials will result in disciplinary action as provided in the code. Definitions and examples of plagiarism are set forth in the Code. The Code is available from the Dean of Students Office or online at:

<http://legal.uncc.edu/policies/up-407> . **The Code of Student Academic Integrity code will be strictly enforced** and is binding on you. Grade and academic evaluations in this course include a judgment that the student's work is free from academic dishonesty of any type; and grades in this course therefore should be and will be adversely affected by academic dishonesty. Students who violate the code can be expelled from UNC Charlotte. *The normal penalty for a first offense is zero credit on the work involving dishonesty and further substantial reduction of the course grade. In almost all cases, the course grade is reduced to an F.*

I may ask you to produce identification for any submission and may require you to demonstrate that graded activities completed by you are your own work.

The instructor can choose to offer an Informal Resolution to a student if it is their first academic integrity violation. The student may choose to accept the Informal Resolution or not. If the student accepts, the form will be kept in the Office of the Dean of Students, but will not be part of student's academic record. If the student does not accept the Informal Resolution, his/her/their case will be reviewed by the UNCC Academic Integrity Board for a Facilitated or Formal Resolution. Students engaging in a second or later offense will automatically be referred to the Academic Integrity Board for Facilitated or Formal Resolutions (i.e., they will not have the option of an Informal Resolution).

Please read the ***Canvas, Grading Criteria, Course Activities, Feedback and Submissions*** page on Canvas to learn in detail about the actions you can be authorized to do for specific course activities and use of Third-Party Content (online source)

### **Copyright**

All course materials, including presentations, videos, quizzes, exercises, assignments and similar materials, are protected by copyright. I am the exclusive owner of those materials I create. I encourage you to take notes and make copies of course materials for your own educational use. However, you may not, nor may you knowingly allow others to reproduce or distribute lecture notes and course materials publicly without my expressed written consent. This includes providing materials to commercial course material suppliers such as CourseHero and other similar services. Students who publicly distribute or display or help others publicly distribute or display copies or modified copies of an instructor's course materials may be in violation of University Policy 406, The Code of Student Responsibility. Similarly, you own copyright in your original papers and exam essays. If I am interested in posting your answers or papers on the course web site, I will request your written permission."

**Title IX Reporting Obligations:**

UNC Charlotte is committed to providing an environment free of all forms of discrimination and sexual harassment, including sexual assault, domestic violence, dating violence, and stalking. If you (or someone you know) has experienced or experiences any of these incidents, know that you are not alone. UNC Charlotte has staff members trained to support you in navigating campus life, accessing health and counseling services, providing academic and housing accommodations, helping with legal protective orders, and more.

Please be aware that many UNC Charlotte employees, including all faculty members, are considered *Responsible Employees* who are required to relay any information or reports of sexual misconduct they receive to the Title IX Coordinator. **This means that if you tell me about a situation involving sexual harassment, sexual assault, dating violence, domestic violence, or stalking, I must report the information to the Title IX Coordinator.** Although I have to report the situation, you will still have options about how your case will be handled, including whether or not you wish to pursue a formal complaint. Our goal is to make sure you are aware of the range of options available to you and have access to the resources you need.

If you wish to speak to someone confidentially, you can contact any of the following on-campus resources, who are not required to report the incident to the Title IX Coordinator: (1) University Counseling Center ([counselingcenter.uncc.edu](http://counselingcenter.uncc.edu), 7-0311); (2) Student Health Center ([studenthealth.uncc.edu](http://studenthealth.uncc.edu), 7-7400); or (3) Center for Wellness Promotion ([wellness.uncc.edu](http://wellness.uncc.edu), 7-7407). Additional information about your options is also available at [titleix.uncc.edu](http://titleix.uncc.edu) under the "Students" tab.

**Sexual Harassment Policy:**

All students are required to abide by the UNC Charlotte Sexual Harassment Policy and Grievance Procedures (available online at: <http://legal.uncc.edu/policies/up-502>) and the policy on Responsible Use of University Computing and Electronic Communication Resources (available online at: <http://legal.uncc.edu/policies/up-307>). Sexual harassment, as defined in the Sexual Harassment Policy and Grievance Procedures, is prohibited, even when carried out through computers or other electronic communications systems, including course-based chat rooms or message boards.

**Religious Accommodation:**

Students who, acting in accordance with this Policy, miss course activities, examinations or other assignments because of a religious practice or belief must be provided with a reasonable alternative opportunity to complete such academic responsibilities. It is the obligation of students to provide faculty with reasonable notice of the dates of religious observances on which they will be absent by submitting a [Request for Religious Accommodation Form](#) to their

instructor prior to the census date for enrollment for a given semester. The census date for each semester (typically the tenth day of instruction) can be found in UNC Charlotte's academic calendar.

### **Student Grievances:**

Student Grievances Students enrolled in courses at the University of North Carolina at Charlotte who would like to file a complaint regarding their experience may do the following: 1. Refer to the UNC Charlotte Student Grievance Procedure. Students may also contact UNC Charlotte's regional accrediting agency, the Southern Association of Colleges and Schools Commission on Colleges. 2. Students residing outside of North Carolina while attending UNC Charlotte may file a complaint in their state of residence. As required by federal regulations, students are directed to the list of resources here, compiled and updated by the State Higher Education Executive Officers.

### **Withdrawals:**

Students are expected to complete all courses for which they are registered at the close of the add/drop period. If you are concerned about your ability to succeed in this course, it is important to make an appointment to speak with me as soon as possible. The University policy on withdrawal allows students only a limited number of opportunities available to withdraw from courses. It is important for you to understand the financial and academic consequences that may result from course withdrawal.

### **Incompletes:**

The grade of I is assigned at the discretion of the instructor when a student who is otherwise passing has not, due to circumstances beyond his/her control, completed all the work in the course. The missing work must be completed by the deadline specified by the instructor, and no later than 12 months. If the I is not removed during the specified time, a grade of F, U, or N, as appropriate is automatically assigned. The grade of I cannot be removed by enrolling again in the same course, and students should not re-enroll in a course in which they have been assigned the grade of I. University policy addressing Incompletes.

### **Audit Policy:**

Students auditing ITSC-1212 must comply with the procedures outlined in the syllabus. An Audit Agreement form must be signed by the professor during the first week of the semester.

### **Other Classroom and University Policies**

There are several policies outlined in your undergraduate catalog, the university's legal site, and student handbook. It is your responsibility to know about them, and my responsibility to hold everyone accountable. I want this to be a collaborative online space, and to provide you with a safe and flexible learning environment. Please see the policies and resources below. In order to hold each of us accountable, please review these important policies

Degree requirements and academic policies can be found in your Undergraduate Catalog  
<https://catalog.uncc.edu/content.php?catoid=27&navoid=2567>

Missed class/assignments

<https://provost.uncc.edu/policies-procedures/academic-policies-and-procedures/classroom-attendance>

## Student Support:

It is common for college students to experience challenges that may interfere with academic success such as academic stress, sleep problems, juggling responsibilities, life events, relationship concerns, or feelings of anxiety, hopelessness, or depression. If you or a friend is struggling, we strongly encourage you to seek support. Helpful, effective resources are available on campus at no additional cost.

- If you are struggling academically with this class, please visit me during office hours or contact **me** by email at [dbasu1@uncc.edu](mailto:dbasu1@uncc.edu)
- Meet with your **academic advisor** if you are struggling academically in multiple classes, unsure whether you are making the most of your time at UNC Charlotte, or unsure what academic resources are available at UNC Charlotte.
- Visit the **Counseling and Psychological Services** website at <https://caps.uncc.edu/> for information about the broad range of confidential on-campus mental health services, online health assessments, hours, and additional information.
- **Call CAPS** at (704) 687-0311 if interested in scheduling an appointment with a counselor. After-hours crisis support is also available through this phone number.

## **Campus Support Resources (Full website list)**

<https://sass.uncc.edu/resources>

## **Disability Support Services**

Students in this course seeking accommodations to disabilities must first consult with the Office of Disability Services and follow the instructions of that office for obtaining accommodations. The Office of Disability Services works with current undergraduate and graduate students along with prospective students to ensure equal access to UNC Charlotte's campus and educational programs.

All services are dependent upon verification of eligibility. Once approved for services, students receive accommodations which are based upon the nature of an individual's disability and documented needs. Students are strongly encouraged to register or check-in for their accommodations with a Disability Services counselor as soon as they have registered for classes. Accommodations are not retro-active and will not begin until the student notifies his or her faculty by providing the Letter of Accommodation.

Please visit the Office of Disability Services at for additional resources, email questions to [disability@uncc.edu](mailto:disability@uncc.edu), or call 704-687-0040 (tty/v) for more information.

Disability services and accommodations

Dean of Students Office: <https://dso.uncc.edu/advocacy-support/get-support>

Disability Services: <https://ds.uncc.edu/>

Title IX information: [Title IX](#)

### **Student Support Services**

Be sure to take advantage of the wealth of resources and support available at UNC Charlotte. Some of the resources available to you include the University Writing Resource Center, University Counseling Center, and the J. Murrey Atkins Library.

- [University Center for Academic Excellence \(UCAE\) | \(704\) 687 7837 | uncc-ucae@uncc.edu](#)
- [University Writing Resources Center \(WRC\) | 704-687-1899 | wrchelp@uncc.edu](#)
- [Veteran Student Services | 704-687-5488 | veteranservice@uncc.edu](#)
- [University Counseling Center | 704-687-0311](#)
- [Multicultural Resource Center | 704-687-7121 | mrc@uncc.edu](#)
- [List of computer labs on campus](#)
- [Atkins Library Laptop Lending program](#)

### **Other Student Resources**

Sick Meal Form:

[https://docs.google.com/forms/d/e/1FAIpQLSdaocGzikq0kXAICBVoWo0mWNIkZ6TPrD\\_BzW10tloeU-QRjg/viewform](https://docs.google.com/forms/d/e/1FAIpQLSdaocGzikq0kXAICBVoWo0mWNIkZ6TPrD_BzW10tloeU-QRjg/viewform)

Student Emergency Fund: <https://sass.uncc.edu/services/student-emergency-fund>

Need to borrow a laptop: <https://library.uncc.edu/laptops>

Adult and evening services: <https://oases.uncc.edu/>

Niner Central: <https://ninercentral.uncc.edu/>

International Student and Scholar Office: <https://isso.uncc.edu/>

Off-Campus housing site: <https://offcampushousing.uncc.edu/>

Emergency housing (currently suspended due to COVID-19):

<https://sass.uncc.edu/services/emergency-housing>

Bias incident reporting: <https://bart.uncc.edu/reporting-bias-incident>

Free legal services (off campus resource): <https://www.legalaidnc.org/>

### **Food and Shelter Resource**

Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to contact the Dean of Students for support. Furthermore, please notify me if you are comfortable in doing so. This will enable me to provide any resources that I may possess.

### **End of Syllabus**