# Syllabus – CS 3340 – Spring 2024

## Contents



## 1 Course Information

**Course:** CS 3340 – Web Programming, Section A, 3 hrs., Department of Computer Science, College of Science & Mathematics, Valdosta State University.

**Prerequisites:** CS 1302 with a C or better and self-sufficiency in coding in an object-oriented language.

**Catalog Description:** Examination and implementation of the foundations of web-based computing. Topics include Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), client-side scripting, server-side programming, state management, data access, Extensible Markup Language (XML), ~~web services, and component-based development~~.

**Learning Outcomes:** Students who have successfully completed this course will be able to:

1. Develop client-side web pages that utilize client-side code, data representation and manipulation, styling, and asynchronous communication with a server.
2. Develop web pages with object-oriented server-side code.
3. Design and implement web-based systems which specify an appropriate client-server architecture and state management strategy.
4. ~~Design, implement, and consume web services and server-side components~~
5. Develop database-driven web applications that support inserting, updating, and deleting of data
6. ~~Design, implement, and consume custom, reusable GUI components.~~

## 2 Instructor Information

**Instructor** Dr. Dave Gibson, 1128 Nevins, 229.333.7151 (office), 229.253.4410 (Dept. office)

**Office Hours** M: 10-11, 3:15-4
T: 10:45-11:30, 2:30-3:15
W: 10:50-11:30
Th: 10:45-11:30, 2:30-3:15
F: anytime by appointment

**Email** dgibson@valdosta.edu, All email addressed to me should:

- Be from a VSU account
- Have a subject that begins with: CS 3340 (*e.g.* CS 3340-HW 1 question)
- Be signed with your full name in the body of the message (*e.g.* Dave Gibson)

## 3 Class Information

**Class:** 2-3:15 Monday & Wednesday, 2115 Nevins

**Course Website:** The course website is https://cs.valdosta.edu/~dgibson/courses/cs3340sp24/index.html, which will display the course Schedule. The Schedule provides a list of exactly what we do in class, tests, assignments, and due dates. It is your responsibility to check the Schedule regularly.

**Textbook:** There is no textbook for the course.

**Blazeview:** Used **only** for turning in homework, labs and posting grades. It is not used for communication, use email instead.

**Communication:** We use VSU email to communicate with one another (or phone).

**Attendance:**

- You are expected to attend all class meetings. Attendance is taken before class begins, and ends at the time the class starts. After that, you are considered tardy. Per VSU policy, if you miss more than 20% of scheduled class meetings (10 classes), then you can receive an F grade for the course.
- Leaving Early – you are required to stay for the entire class time. Each instance of leaving early counts as ½ an absence.
- Do not leave the classroom once lecture has started, excepting an emergency. Should such a situation develop, contact me immediately after class.

**General Policies:**

- Electronic devices are allowed for viewing course notes. Any other use is not allowed. Any violation of this results in an absence.
- Phones are muted or turned off and stored off the surface of your desk and not within sight. Phones are not to be used in any capacity during class. Any violation of this results in an absence.
- Check the Schedule on the website regularly. Check your VSU email account regularly.
- Drinks with a lid are OK. Food/candy/snacks are not allowed.

## 4 Assessment

Course Average – Your course average is computed from the weights below

| HW | Topic | Time (hrs) | Weight |
|---|---|---|---|
| Labs 1-12 | | | 15% |
| HW 1 | Client-Side | 22 | 19% |
| HW 2 | ASP.NET Basics 1 | 8 | 7% |
| HW 3 | ASP.NET Basics 2 | 7 | 6% |
| HW 4 | AJAX | 4 | 4% |
| HW 5 | Database | 12 | 11% |
| HW 6 | Databinding | 9 | 8% |
| Test 1 | | | 15% |
| Test 2 | | | 15% |
| **Total** | | **62** | **100%** |

**Final Grade** – Final grades are assigned according to where your course average (rounded), falls on the following scale: 90-100=A, 80-89=B, 70-79=C, 60-69=D, 59 or below=F. **A necessary, but not sufficient condition to earn an A or B grade for the course is that you scored at least 50% on all homework assignments.**

- **To earn an A in the course, you must also have:**
  - **Completed all HW assignments with a grade of at least 60% on each one.**
  - **Completed all assigned Labs.**

**Labs –** Most labs will be assigned for a particular class meeting; however, most of them you will be allowed to do them at home or wherever. In these cases, attendance is not required. These will be indicated on the Schedule as "Lab Day". A lab can be submitted after the due date, up to the next class period with a 50% penalty. Labs are submitted in Blazeview.

**Homework –** A time estimate is given above for the homework assignments. These estimates were generated from data collected in 2020 and 2021. A few of you will take less time on some of the assignments. Many of you will require more time. It is important to study the materials (notes, code samples, and labs) provided as the homework assignments will be based on them. Each class period that an assignment is late incurs a 10% penalty. Homework is submitted in Blazeview.

**Final Exam:** There is no final exam; however, you can take a re-test of Test 1 or Test 2 to replace either or both of those grades, provided you took those tests (*i.e.* didn't skip them).

## 5 Tips for Success

1. **Notes** – Read and study the notes posted on the Schedule and take notes in class.
2. **Sample Code** – Download the provided code and experiment.
3. **Baby Steps** – Take baby steps. Just write a line or two of code and then compile, run, test.
4. **Debugger** – Learn to use the debugger. In general, you must be a very savvy debugger to succeed. You must learn to isolate conditions by commenting out code, using the debugger, and doing experiments.

   Debugging web programs is much more challenging than the debugging you have done in 1302. However, VS provides a lot of help. Still, it will be more complex and time consuming than you are used to. **Debugging your code is part of the assignment, so I expect you to do that.**
5. **Start Early** – Start as early as possible on assignments. You will have problems no matter how straight forward you think the assignment is. Realize that some problems you encounter may take 30 minutes to figure out, or may take several hours, and/or you may have to come back to them over several days. Get started as early as possible! You will probably encounter many more difficulties that you did in learning to program in Java.
6. **Experiment** – You must learn to experiment (debug). What do I mean? You are working on an assignment, you think you know what you are doing, but it is not working. You've tried quick fixes and looking back at the notes, but it is still not working. What this usually means is that you do not understand how a method/control really works. You must do an experiment to find out how it works. What does this mean? It means you start a new project and write the minimum amount of code to test out a method/control. You tinker with it, change variable values and/or parameters, etc, until you understand how it works.
7. **Start Over!** – Occasionally, none of the above are working. You should start over using baby-steps and many times using code from my examples that works. Or, start with one of my examples that works, and baby-step in the changes.
8. **Help!** – Learn to use the MSDN and Google to find answers to your questions. Do not use Google to find answers to your assignments, or major parts of. If you turn in such work, it is considered plagiarism for this course.
9. **Call the Doctor!** – You can email me (or see me in person). State the assignment number and clearly what step you are on, what you have tried, and what symptoms exist indicating a problem. I may request to look at your code. You can copy (not screen print) a relevant section of code into an email.

## 6 Additional Information

**Workload:** Heavy and continuous. This class requires a lot of work outside of class on a regular basis to succeed. If you do not have the time to commit, please consider taking this course in a future semester.

**Title IX Statement:** Valdosta State University (VSU) upholds all applicable laws and policies regarding discrimination on the basis of race, color, sex (including sexual harassment and pregnancy), sexual orientation, gender identity or expression, national origin, religion, age, veteran status, political affiliation, or disability. The University prohibits specific forms of behavior that violate Title IX of the Education Amendments of 1972. Title IX of the Education Amendments of 1972 prohibits discrimination on the basis of sex in education programs and activities that receive federal funding. VSU considers sex discrimination in any form to be a serious offense. Title IX refers to all forms of sex discrimination committed against others, including but not limited to: sexual harassment, sexual assault, sexual misconduct, and sexual violence by other employees, students or third parties and gender inequity or unfair treatment based on an individual's sex/gender. The designated Title IX Coordinator for VSU is Mr. Darius Thomas. To view the full policy or to report an incident visit: https://www.valdosta.edu/administration/student-affairs/title-ix/.

**Accommodations Statement:** Students with disabilities who are experiencing barriers in this course may contact the Access Office (https://www.valdosta.edu/student/disability/) for assistance in determining and implementing reasonable accommodations. The Access Office is located in University Center Room 4136 Entrance 5. The phone numbers are 229-245-2498 (V), 229-375-5871. For more information, please visit VSU's Access Office or email: access@valdosta.edu. To request reasonable accommodations for pregnancy and childbirth, contact Christina Kidd, Student Conduct Coordinator at chkidd@valdosta.edu. Please note, you will be required to provide documentation from an appropriately licensed medical professional indicating the requested accommodations are medically necessary.

## 7 Academic Honesty

You are encouraged to discuss with others to understand the problem and how to solve it in words.

**Rules**

1. You are expected to work individually for all quizzes and exams.
2. All "homework" for this course must be entirely your own work. If you are working with someone you must:
   a. Not copy from one another.
   b. Place a comment at the top of the main file for the assignment stating who you worked with.
3. **You may not:** share code with someone else in any format (electronic, hard copy). Nor may you request or possess any of these from someone else.

**Consequences**

1. A grade of zero on assignment for all involved (copiers & source)
2. A *Report of Academic Dishonesty* is filed which may result in disciplinary action from the university. For more information, see: http://www.valdosta.edu/academics/academic-affairs/academic-honesty-policies-and-procedures.php