

Syllabus – CS 4321 – Fall 2024

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1 Course Information

Course: CS 4321 – Software Engineering I, Section A, 3 hrs. credit, Department of Computer Science, College of Science & Mathematics, Valdosta State University

Prerequisites: CS 3410 with a C or better.

Catalog Description: Concepts and techniques used in all aspects of the software life-cycle relevant to the production of large object-oriented software systems. Students will work in teams on a project.

Topics: Lifecycle models, requirements, analysis, design, architecture, testing, UML, design patterns, management issues

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

1. Work in a team to develop and present a software system, producing appropriate documentation and following a lifecycle model.
2. Discuss techniques for gathering and analyzing users' requirements.
3. Construct static and dynamic models of software using UML.
4. Develop an efficient and effective test plan from software requirements.
5. Discuss issues related to the management of the software development process.

2 Instructor Information

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

Office Hours: Mon: 11-12, 2-3, and any other time by appointment

Tue: 2-3

Wed: 11-12, 2-3

Thu: 2-3

Fri: 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 4321 (e.g. CS 4321-Project question)
- Be signed with your full name in the body of the message (e.g. Dave Gibson)

3 Class Information

Class: Tue & Thu, 11-12:15, Nevins 2115

Course Website: The course website is found by going to my homepage: <https://cs.valdosta.edu/~dgibson/>, and choosing the CS 4321 link which will display the course Schedule. The Schedule provides a list of exactly what you should do, assignments, and due dates. It is your responsibility to check the Schedule regularly.

Attendance: Attendance is taken for each scheduled class. This helps me understand your progress in the course, and to encourage you to attend when you haven't. Following VSU policy, missing more than 20% of classes (6) results in an automatic F grade for the course.

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

Textbook: There is not a textbook for this course. We will use materials I have developed as well as a number of videos from an udacity.com course, "Software Development Process".

General Policies:

- Be on-time for class. Do not leave class early except if you are sick. Do not leave class and then return. Do not miss class.
- **Do not use phones during class time.** Phones are turned off (or muted) and stored in your book bag off the surface of your desk and not within sight.
- Laptop/tablet allowed for viewing course materials during class. No other use allowed.
- Check the Schedule on the website regularly. Check your VSU email account regularly.
- Drinks are allowed in class. Food/candy/snacks are not allowed in class.

4 Assessment

Grade Components:

Homework (40%).

- There are 8 assignments where you will watch a video and answer questions.
- There are 6 other homeworks that count varying percentages.
- Late homework is penalized 20% per day late.

Project (60%)

- You will work in teams of 4-5 for the project. Significant individual effort and collaborative effort are required.
- The grading criteria will be provided before the project begins. A significant portion will be "effort", which translates into time spent on the project, which will be logged in an app.
- The project is divided into 2 "Sprints". The dates are shown on the Schedule. Sprint 1 demo is in person. Sprint 2 demo is a video your team submits.
- Project deliverables must not be late to be accepted for credit.

Homework	Weight
8 Videos (1.75% each)	14%
HW-VCS	10%
HW-Unit Testing	6%
HW-Copilot	2.5%
HW-Star UML	2.5%
HW-State	2.5%
HW-Sequence	2.5%

Final Course Average:

Your course average is computed from the weights above using a 100-point scale. 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.

5 Academic Honesty

You are expected to work individually for all homework's except one, which will be indicated on the assignment. Any violation will result in A *Report of Academic Dishonesty* 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>

6 Additional Information

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 Ms. Selenseia Holmes. 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 Ms. Myia Miller, Title IX Compliance Officer, at maburden@valdosta.edu. Please note, you will be required to provide documentation from an appropriately licensed medical professional indicating the requested accommodations are medically necessary.