

CS 682-01: Software Development Lab Syllabus

Fall 2023

Course Information

- Classroom: Wheatley W02-0158
- Class Schedule: Tu/Th 7:00pm – 8:15pm
- Class website: Check Blackboard at <https://umb.umassonline.net/>

Instructor: Kenneth K. Fletcher

- Email: kenneth.fletcher@umb.edu
- Office: McCormack Building 3rd Floor Room 21 (M03-0201-21)
- Office hours: Tu/Th 9:30 am – 11:00 am or by appointment.
- Phone: +1.617.287.3832
- Web: www.cs.umb.edu/~kkfletch/

Suggested Textbook and Reading Materials

There are no required textbooks for this class.

Course Description

This is an in-depth software development laboratory course, where students, working in small groups, specify, design, implement, test, and document a relatively large software project.

Course Goals and Learning Objectives

At the end of this course, students should be able to:

- Work together in a team to have productive interactions with clients.
- Communicate effectively with other team members and clients to accomplish project outcomes.
- Perform software requirements elicitation and analysis.
- Use a software version control system to collaboratively implement a relatively large software project.
- Produce professional-quality code following some coding standards.
- Test and document a relatively large software.

Assessment of these outcomes will be done by a combination of project meetings, code reviews, and document reviews.

Projects

This course is all about working and managing a relatively large software development project. Students will work in teams and each team will be assigned a real-world project, typically from an industrial client, based on their preferences. A list of all available projects and descriptions will be made available on Blackboard (<https://umb.umassonline.net/>) for students to choose from. Students are expected to apply the software development life-cycle to realize the outcomes of the project. Emphasis is placed on the quality of software artifacts produced at the end of each milestone and the overall client satisfaction of the project.

Course Requirements

This class is like a part-time job! ☺ Students will be expected to spend a minimum of 15 to 20 hours per week outside of class on project work. There will be **no exams** for this course.

Grading Rubric

The final grade for this course will depend on the software artifacts produced and submitted by each team, customer satisfaction, student participation in the team, and the final demo of the project. The specific breakdown is as follows:

Item	% of Total Score
Project Development	60
Test cases and Documentation	15
Customer Satisfaction	10
Member Participation and Meeting Attendance	10
Final Project Demo	5
Total	100

Letter grades will be assigned according to the following scale:

A \geq 94%	B \geq 84%	C \geq 74%
A- \geq 90%	B- \geq 80%	C- \geq 70%
B+ \geq 87%	C+ \geq 77%	F <70%

Attendance and Late Policy

This course is not a regular lecture course. Most of the work will be done outside of class. Students are **required** to be in class the first week of class. After which there will be bi-weekly project meetings with each project team until the end of the semester. Attendance is **mandatory** for all project meetings. All deadlines for submitting software artifacts are **firm**. No late submissions will be accepted. Exceptions to this policy are made only in the case of verifiable medical or family emergencies.

Accommodations

This class seeks ways to become a working and evolving model of inclusion and universal design for all participants. Individuals with disabilities of any kind (including learning disabilities, ADHD, depression, health conditions), who require instructional, curricular, or test accommodations are responsible for make such needs known to the instructor as early as possible. Every effort will be made to accommodate students in a timely and confidential manner. Individuals who request accommodations must be registered with the Ross Center for Disability Services, which authorizes accommodations for students with disabilities. If applicable, students may obtain adaptation recommendations from the Ross Center for Disability Services, M-1-401, (617-287-7430), www.rosscenter.umb.edu. The student must present these recommendations and discuss them with each professor within a reasonable period, preferably by the end of Drop/Add period.

Student Conduct

Students are required to adhere to the University Policy on Academic Standards and Cheating, to the University Statement on Plagiarism and the Documentation of Written Work, and to the Code of Student Conduct as delineated in the catalog of Undergraduate Programs, pp. 44-45, and 48-52. The Code is available online at: https://www.umb.edu/life_on_campus/policies/community/code.

Additional Information

My emails to the class will be sent from the Blackboard system so make sure that your email address is set up correctly with Blackboard. You should visit the Blackboard website regularly for other information including latest announcements about the class. Make sure you check your UMB e-mail address (usually firstname.lastname001@umb.edu) regularly and/or redirect it to another e-mail address you use more frequently. No excuses regarding infrequent use of this e-mail address will be accepted. This is a face-to-face course conducted as lectures, presentations and labs. The material will be posted on Blackboard before class time. Students are expected to read class materials before coming to class. Other notes and materials are accessible from Blackboard during class.