



University of Wisconsin – La Crosse

C-S 741 Software Engineering Fall 2019

Section: 01 MWF 11:00am – 11:55am Centennial 2213

Instructor: Dr. Mao Zheng
Wing 217, Tel: 785-6808, Email: mzheng@uwlax.edu

Office Hour: 1:30pm- 2:00pm on Mondays, Wednesdays
10:00am – 12:00noon on Tuesdays
Or set an appointment by email

Course Website: <http://www.cs.uwlax.edu/~mzheng/CS741Fall19/>

TextBook: “Object-Oriented Software Engineering – An Agile Unified Methodology”,
David C. Kung, ISBN 978-0-07-337625-7, McGrawHill.

References:

“Object-Oriented Software Engineering – Practical Software Development using UML and Java”, second edition, Timothy C. Lethbridge and Robert Laganieri, McGraw Hill, ISBN: 0077109082 , 2005

“Software Engineering – Principles and Practice”, second edition, Hans Van Vliet, John Wiley & Sons, LTD, ISBN 0-471-97508-7.

“Software Engineering”, 6th Edition, Ian Sommerville, Addison Wesley, 2001

Grading Policies:

Mid-Term Exam	20%	-- Wednesday Oct. 16, 2019
Final Exam	30%	-- Friday Dec. 13, 2019 2:30pm – 4:30pm
Team Project	50%	

Course Description:

This course aims to introduce the principles of software engineering discipline so that software engineers will appreciate both technical and non-technical issues in the development of large-scale cost-effective software systems. *You will be learning a disciplined process of developing software and practicing it in a small project.*

Learning Outcomes:

By the end of this course, you will be able to:

- Read and write UML class diagrams and UML use case diagrams.
- Read and write a requirements document, design document.



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- Learn various software life cycle models that include the water fall model, the prototyping models (rapid, incremental and evolutionary), the spiral model, and the agile model.
- Choose an appropriate life cycle model for a given software development project.
- Develop requirements document, design document, code and test cases for a software project. Implement and demonstrate the project.
- Work in a team setting.

Course Contents (may not following exact order)

Software Process	Software Life Cycle Models
Requirements Engineering	Analysis and Design Models
Object Oriented Design	Software Testing

Attendance and Participation:

To be successful in this course, you need to start working on your course project as soon as possible. This includes actively finding team members and forming your project team, researching and understanding the course project problem domain. The project deliverables are connected with lecture contents. Hence your class attendance and participation are very important for this course. Lecture contents mainly cover the general software development principles and guidelines in each development phase that needs to be applied in your course project. Be prepared and clarify the questions rising from your project and discover how these general principles and guidelines are applied in the specific problem domains through class discussions. The course is only effective if you participate in-class discussions and activities, and apply the lecture contents in your project.

Late Projects, Missed Quizzes / Exams

Project deliverables are due on the dates given in the project description. For extenuating circumstances that impact your ability to meet deadlines or participate in class activities, you are responsible for alerting me as soon as possible.

Project deliverables will not accepted after the due date, no make-up test or exam will be given except for University-excused absences.



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Grading Scale

Letter Grade	Percentage Equivalent
A	93-100%
AB	89-92%
B	83-88%
BC	79-82%
C	70-78%
D	60-69%
F	59% - below

Our Legal Obligations to You

Sexual Misconduct

As an employee of the University of Wisconsin-La Crosse, I am a mandated reporter of sexual harassment and sexual violence that takes place on campus or otherwise affects the campus community. This means that if I receive detailed or specific information about an incident such as the date, time, location, or identity of the people involved, I am obligated to share this with UWL's Title IX Coordinator <http://www.uwlax.edu/affirmative-action/> in order to enable the university to take appropriate action to ensure the safety and rights of all involved. For students not wishing to make an official report, there are confidential resources available to provide support and discuss the available options. The contact in Student Life is Ingrid Peterson, Violence Prevention Specialist, (608) 785-8062, ipeterson@uwlax.edu. Please see <http://www.uwlax.edu/sexual-misconduct> for more resources or to file a report.

Religious Accommodations

Per the UWL Undergraduate and Graduate Catalogs <http://catalog.uwlax.edu/undergraduate/aboutuwlax/#accommodation-religious-beliefs> “any student with a conflict between an academic requirement and any religious observance must be given an alternative means of meeting the academic requirement. The student must notify the instructor within the first three weeks of class (within the first week of summer session and short courses) of specific days/dates for which the student will request an accommodation. Instructors may schedule a make-up examination or other academic requirement before or after the regularly scheduled examination or other academic requirement.”



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Students with Disabilities

Any student with a documented disability (e.g. ADHD, Autism Spectrum Disorder, Acquired Brain Injury, PTSD, Physical, Sensory, Psychological, or Learning Disability) who needs to arrange academic accommodations must contact The ACCESS Center (165 Murphy Library, 608-785-6900, ACCESSCenter@uwlax.edu) and meet with an advisor to register and develop an accommodation plan. In addition to registering with The ACCESS Center, it is the student's responsibility to discuss their academic needs with their instructors.

You can find out more about services available to students with disabilities at The ACCESS Center website: <http://www.uwlax.edu/access-center>

Veterans and Active Military Personnel

Veterans and active military personnel with special circumstances (e.g., upcoming deployments, drill requirements, disabilities) are welcome and encouraged to communicate these, in advance if possible, to me. For additional information and assistance, contact the Veterans Services Office. <http://www.uwlax.edu/veteran-services/>. Students who need to withdraw from class or from the university due to military orders should be aware of the military duty withdrawal policy <http://catalog.uwlax.edu/undergraduate/academicpolicies/withdrawal/#military-duty-withdrawal-university>.