

Course	CSI 3370-002, Software Engineer and Practice Oakland University, School of Engineering and Computer Science
Credits	4 credits
Semester	Winter 2018
Lecture	Tuesday/Thursday 1:00pm-2:47pm, Human Health Building 4043
Lecturer	Jingshu Chen Email: jingshuchen@oakland.edu Office: 534 Engineering Center Office Hours: by appointment
Teaching Assistant	TBD
Books for reference	<u>Software Engineering: A Practitioner's Approach (Irwin Computer Science) 8th Edition</u> ISBN-13: 978-0078022128 ISBN-10: 0078022126 <u>Engineering Software as a Service: An Agile Approach Using Cloud Computing</u> Armando Fox and David Patterson ISBN-13: 978-0984881246
Course Websites	Moodle: moodle.oakland.edu

Course Description:

Introduction to software engineering and practice. Topics include software process models, project management, requirements analysis, software quality assurance, and testing. (Formerly CSE 337 and CIT 337) Prerequisite(s): major standing.

Grading:

The following scale will be used for determining final grades.

Grade Weighting	Weighting
Practice in class	20%
Participation in class discussion	10%
Team Project	40%
Midterm Exam	10%
Final Exam	20%

Class Schedule: Please refer to the following for official add/drop dates, holidays, etc:
<https://www.oakland.edu/registrar/important-dates/>

- **Adjustments to the schedule will be made as needed and updates will be discussed in class and via Moodle.**

Date	Day of Week	Topic
1/4/18	Thursday	Syllabus
1/9/18	Tuesday	Intro to Software Eng. & Lifecycle Models
1/11/18	Thursday	Agile development, Extreme Programming
1/16/18	Tuesday	Requirement Engineering & Modeling I
1/18/18	Thursday	Requirement Engineering & Modeling II
1/23/18	Tuesday	Requirement Engineering & Modeling III
1/25/18	Thursday	Project work starts
1/30/18	Tuesday	Iteration-I (Student Presentation) Project establishment
2/1/18	Thursday	Introduction to UML
2/6/18	Tuesday	UML
2/8/18	Thursday	Midterm Exam
2/13/18	Tuesday	Software configuration management
2/15/18	Thursday	Design I
2/27/18	Tuesday	Design II
3/1/18	Thursday	Iteration-II (Student Presentation) Project design
3/6/18	Tuesday	Quality Assurance
3/8/18	Thursday	Testing I
3/13/18	Tuesday	Testing II/ Formal Modeling and Verification
3/15/18	Thursday	Project working day
3/20/18	Tuesday	Iteration-III (Student Presentation) Implementation& Testing Plan
3/22/18	Thursday	Design Patterns
3/27/18	Tuesday	Design Patterns
3/29/18	Thursday	Project Working Day
4/3/18	Tuesday	Final Project Presentation I
4/5/18	Thursday	Final Project Presentation II
4/10/18	Tuesday	Final Review
4/12/18	Thursday	Code Smell & Refactoring
4/17/18	Tuesday	Parallel Software Construction
4/24/18	Tuesday	Final Exam Noon-3:00pm