Course Outline

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Course Details

Course Code	COMP9900
Course Title	Information Technology Project
Lecturer	Raymond Wong
Tutor	Haojie Huang
Classes	Timetable (/COMP9900/17s2/timetable)
Consultations	Timetable (/COMP9900/17s2/timetable)
Units of Credit	6
Course Website	http://cse.unsw.edu.au/~cs9900/17s2/ (http://cse.unsw.edu.au/~cs9900/17s2/)
Handbook Entry	http://www.handbook.unsw.edu.au/postgraduate/courses/current/COMP9900.html (http://www.handbook.unsw.edu.au/postgraduate/courses/current/COMP9900.html)

Course Summary

A capstone software project. Students work in teams to define, implement and evaluate a real-world software system. Most of the work in this course is team-based project work, although there are some introductory lectures on software project management and teamwork strategies. Project teams meet fortnightly with project mentors to report on the progress of the project. Assessment is based on a project proposal, a final project demonstration and report, and on the quality of the software system itself. Students are also required to reflect on their work and to provide peer assessment of their team-mates' contributions to the project.

Assumed Knowledge

Before commencing this course, students should be able to:

- produce correct software programs in Java or C/C++, i.e., compilation, running, testing, debugging, etc.
- produce readable code with clear documentation.
- basic knowledge of database programming, Web programming and/or script programming (such as Python, PHP, Javascript).

Note: Students must be in their final semester of study, and have completed at least 72 UOC towards MIT program 8543.

Student Learning Outcomes

After completing this course, students will be able to:

1. work as an effective member of a team to develop a software project (with a real-world application in mind)
2. develop strategies leading to the development of high-performing, self-managing team
3. develop skills to handle team issues during different phases of software development
4. communicate effectively, orally and in writing, with peers, mentor (as supervisor) and lecturer (as stakeholder)
5. appreciate and be familiar with the role of project management in software development
6. produce clear and comprehensive software project proposal and report
7. participate in a group presentation, demonstration, and liaising with mentor and stakeholder
8. use relevant software tools to support effective software management.

This course contributes to the development of the following graduate capabilities:

Graduate Capability	Acquired in
Scholars capable of independent and collaborative enquiry, rigorous in their analysis, critique and reflection, and able to innovate by applying their knowledge and skills to the solution of novel as well as routine problems	Project
Entrepreneurial leaders capable of initiating and embracing innovation and change, as well as engaging and enabling others to contribute to change	Project
Professionals capable of ethical, self- directed practice and independent lifelong learning	Project
Global citizens who are culturally adept and capable of respecting diversity and acting in a socially just and responsible way	Project

Teaching Strategies

- Lectures: the main way to introduce and overview software project management; and discuss various teamwork strategies.
- Labs: for the team to regularly meet up and interact with the mentor.
- Project: give students the hands-on experience on a real-world software system, in a teamwork environment.

Teaching Rationale

The learning focus in this course is primarily a team-based software project (for students to practice their skills and knowledge in a real-world, teamwork setup). The course will have an emphasis on the practical software development skills in a teamwork environment. Students will learn the basic contents of software project management through introductory lectures.

Academic Honesty and Plagiarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to this principle of academic integrity. Plagiarism undermines academic integrity and is not tolerated at UNSW. Plagiarism at UNSW is defined as using the words or ideas of others and passing them off as your own.

If you haven't done so yet, please take the time to read the full text of

- UNSW's policy regarding academic honesty and plagiarism (https://student.unsw.edu.au/plagiarism)

The pages below describe the policies and procedures in more detail:

- Student Code Policy (https://www.gs.unsw.edu.au/policy/documents/studentcodepolicy.pdf)
- Plagiarism Policy Statement (https://www.gs.unsw.edu.au/policy/documents/plagiarismpolicy.pdf)
- Plagiarism Procedure (https://www.gs.unsw.edu.au/policy/documents/plagiarismprocedure.pdf)
- Student Misconduct Procedure (https://www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf)

Assessment

Item	Due	Marks
Proposal	Week 2-3	10%
Project demo	Week 11-12	15%
Project report	Week 12	15%
Software quality	Week 12	50%
Participation records, self & peer assessment	Week 11-12	10%

Course Schedule

Week	Lectures	Labs	Notes

1	Course intro, teamwork strategies, software tools	-	-
2	Agile software development; software management overview	Group formation, project brainstorming	-
3	-	-	-
4	-	Progress report	-
5	-	-	-
6	-	Progress demo	-
7	-	-	-
8	-	Progress demo	-
9	-	-	-
10	-	Progress demo	-
11	-	Project demo	-
12	Final wrap-up lecture - revision of the project outcomes	Project demo	-

Resources for Students

There are no specific texts and recommended readings for COMP9900. Programming language specific texts may be useful as references, depending on the programming language(s) used in the project. Other online resources and/or documentation will be provided during the lectures.

Course Evaluation and Development

This course is evaluated each session using the myExperience system.

This is the first time that this course is offered and there is no previous course evaluation to address yet.

Resource created 4 years ago (Saturday 22 July 2017, 01:19:13 PM), last modified 4 years ago (Saturday 22 July 2017, 03:35:55 PM).

Comments (/COMP9900/17s2/forums/search?forum_choice=resource/11537) (/COMP9900/17s2/forums/resource/11537)



Haojie Huang (/users/z3409413) 4 years ago (Sun Jul 30 2017 06:36:35 GMT+1000 (AEST))

Hi all,

We have got 2 sample projects this semester. The links are listed below:

Sample Project 1 (http://comp9900.herokuapp.com/project1/)

Sample Project 2 (http://comp9900.herokuapp.com/project2/)

Please read the project spec carefully. If you don't like the sample projects, you are encouraged to propose your own and talk to me in the lab.