CMSC 128
Introduction to Software Engineering
2nd Semester AY 2016 - 2017

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CMSC 128
Introduction to Software Engineering

Why CMSC 128?

CMSC 128 Introduction to SE

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- Course Topics
- On Academic Freedom and Critical Thinking
- Grade Components
- Grading Scheme

CMSC 128 Introduction to SE

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1 Course Information

Course Information

- Course No: CMSC 128
- Course Title: Introduction to Software Engineering
- Course Credit: 3.0 units
- No of Hours: 2 hrs Lecture and 3 hrs Laboratory
- Prerequisite(s): CMSC 123

Course Information

- Course Description: Software lifecycle from the requirements specification and design phases through the construction of actual software; topics include planning a software project, cost-estimation, software design, implementation and software maintenance

2 Course Topics

Course Topics

- 01 What is Software Engineering (SE)?
- 02 History of Software Engineering
- 03 The Software Development Team
- 04 Software Development Process and Models
- 05 Capturing Requirements from Stakeholders
- 06 Functional and Non-functional Requirements
- 07 Modeling Tools

Course Topics

- 08 Design Patterns
- 09 General Concepts on Code Writing
- 10 Testing your software (or portions of it!)
- 11 Project Management
- 12 Maintenance and Deployment
- 13 A Crash course in User-Experience (UX)
- 14 Ethics 101 in Software Engineering

Course Topics

- *Topics can be reordered, added and deleted.

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On Academic Freedom and Critical Thinking

On Academic Freedom and Critical Thinking

- In five (5) words, it can be roughly summarized as the faculty members' freedom 'how and what to teach' but still subject to rules and regulations of the university. However…

On Academic Freedom and Critical Thinking

"Members of the teaching staff enjoy academic freedom. *Provided*, however, that no instructor in the University shall inculcate sectarian tenets in any of the teachings, nor attempt either directly or indirectly, under the penalty of dismissal by the Board of Regents, to influence students at the University for or against any particular church or religious sect or political party."

"Academic Freedom" from UPLB Faculty Manual, p. 16

On Academic Freedom and Critical Thinking

- Students should report to appropriate authorities if such incidents happen.
- Additionally, critical thinking is expected to every UP student.
- Learning should never stop as you step outside of the classroom.

4 Grade Components

Grade Components

Lecture		50%
3 Lecture Exams(12% each)	36%	
Quizzes	05%	
Attendance	05%	
Assignments	04%	

Grade Components

Laboratory		50%
◉Fully Working Software	25%	
◉Individual Lab Exam	10%	
◉Project Presentation	05%	
◉Interview	05%	
◉Exercises/Quizzes	05%	

5 Grading Scheme

Grading Scheme

Grade Range		Numerical Grade
0	54	5
55	59	3
60	64	2.75
65	69	2.5
70	74	2.25
75	79	2
80	84	1.75
85	89	1.5
90	94	1.25
95	100	1.00

Grading Scheme

- 50%-50% grading policy
- NOT pass both BUT student must be able to finish the project with an evaluation rating of not lower than 55% on the average
- No grade of INC will be given to students unless the whole group fails to finish the project regardless if the final score obtained by the student is passing or failing.

Grading Scheme

- For the peer evaluation, a scoring scheme of 70% base score – 30% evaluation score will be implemented.

Grading Scheme

- Example: Lab instructor gave your group a score of 89% on milestone #1 and you received an average of 70% evaluation score for milestone #1. Then, your score would be:
- (89*0.70)+(89*0.30*0.70) = 80.99
- 80.99 (out of the perfect 89%) would be your final score for milestone #1.

6 Rules / Policies

Rules and Policies

- A maximum of seven (7) absences in the lecture OR three (3) in the laboratory will be imposed. Exceeding any of these numbers will automatically cause a student to obtain a grade of 5.0.

Rules and Policies

- Our working definition of being late is beyond 15 minutes of the class schedule (PST). Students who come late obtain a ‘Latecomer’s Penalty’ (LP). Three LPs are equivalent to one absence.

Rules and Policies

- Students are encouraged not to maximize absences. You are expected to monitor your own absences.
- Your lecturer, in the best of his capability, will post an updated list of number of absences throughout the semester.

Rules and Policies

- A seating arrangement will be done in order to effective manage the class.
- Students are expected to be physically AND mentally present during the class.

    Are you okay with a Saturday team building activity?

    Consideration: conflicting scheds, health condition, safety

Rules and Policies

- A missed quiz because of being late or because of unexcused absences will be marked zero (0). An excused absence (with proper excused slips) will be dropped from the quizzes.

Rules and Policies

- A missed exam because of unexcused absences will be marked zero (0). If the absence is excused, the student will automatically take the final exam. The rating from the final exam will be the rating to be furnished on the missing exam(s) provided that the student missed only a maximum of two (2) out of the three (3) lecture exams before the final exam.
- In cases where the student obtains three (3) excused absences in ALL of the lecture exams, the lecturer will hold an additional exam for the student with duly agreed exam coverage considering the time of study, length of coverage, and the schedule of the student. This will be done before the final exam.

Rules and Policies

- Any form of academic dishonesty is not tolerated. A student found guilty beyond reasonable doubt will automatically receive a grade of zero (0) on the course requirement he/she committed the act.

Rules and Policies

- In cases where massive cheating arises, especially during exams, the lecturer reserves the right to nullify the exam OR conduct additional exams to preserve the integrity of the class' academic standing. If such cases occur, the case will be elavated at the institute, college or university level depending on the exact nature of the incident and will be decided by the lecturer and the lab instructors.

Rules and Policies

- Your lecturer and lab instructors would highly appreciate if you give your feedback or concerns directly to us instead of posting it to your respective social media accounts. We are expected to be socially responsible individuals. If there are problems that are of concern with us related to the course, inform us asap. We would listen to you with open ears.

Rules and Policies

- If you want to pass this course with a breeze, consider these notes:
  - We highly appreciate students who exert effort and go beyond what is expected.
  - When a requirement is given, do it asap. It is given as early as possible for a reason.
  - We highly appreciate students who consult early than those students who consult a day before or during the day of the deadline.

Rules and Policies

- Peer evaluation will be regularly done. Students are expected to be objective in evaluating peers.
  - For “hardworking” students, learn not to micromanage.
  - For “lazy” students, learn to exert effort.

7 Lecturer and Lab Instructors

Lecturer and Lab Instructors

Reginald Neil Recario

Room C-116

rcrecario@up.edu.ph

CH: *Tue 9-10am, 1-4pm; Wed 8-10am; Thu 9-12nn; Fri 8-10am*

Lecturer and Lab Instructors

- Marie Betel De Robles

Room C-118

mbbderobles2@up.edu.ph

CH: TBA

- Katherine Loren Tan

Room C-114

kmtan4@up.edu.ph

CH: TBA

8 Dates to Remember

Dates to Remember

- Start of Classes – Jan 17
- Last day of late Registration – Jan 25
- Last day of dropping without evaluation – Mar 17
- Last day of dropping with “Pass” or “Fail” Evaluation – April 20
- Last day of filing LOA – May 4
- End of Classes – May 18

9 Exam Dates

Exam Dates

- First Long Exam – March 1
- Second Long Exam – April 5
- Third Long Exam – May 10

10 References

References

- Marsic, Ivan. Software Engineering. 2012.
- Pressman, Roger. Software Engineering: A Practioner'sApproach (7th ed). 2010.
- Saleh, Kassem. Software Engineering. 2009.
- Sommerville, Ian. Software Engineering (10th ed). 2015.
- Sommerville, Ian. Software Engineering (9th ed). 2011.
- And other Software Engineering books and auxiliary online references

11 Credits

Thanks!

Any questions ?

You can find me at

- @RegRecario
- rcrecario@up.edu.ph

Credits

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by SlidesCarnival
- Photographs by Unsplash