

CSC/ISS 493: Software Project

(3 units)

Spring 2017

Point Loma Nazarene University
College of Natural and Social Sciences

PLNU Mission

Point Loma Nazarene University exists to provide higher education in a vital Christian community where minds are engaged and challenged, character is modeled and formed, and service is an expression of faith. Being of Wesleyan heritage, we strive to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.

Instructor:

Dr. Benjamin Mood
bmood@pointloma.edu
619 849 2269
RS 216

Meeting Times and Locations:

Lecture:

T/R: 1:30PM – 2:45PM Latter 2

Office Hours:

Monday: 10:45am – 12:15pm
Tuesday: 9:30am – 11:15am
Wednesday: 10:45am – 12:30pm
Thursday: 9:30am – 11:15am, 3:00pm – 4:30pm
Friday: 10:45am – 12:30pm

Books:

None!

Course Description:

This course presents the student with a strong experience in software engineering. Students, working in teams, investigate, design, implement and present to their classmates a significant software project. The project should solve a significant, complex and generalizable problem, dealing with constraints and trade-offs in the solution. The course includes study of project management concerns such as planning, scheduling, and assessing progress. Alternating Years. Offered 2016-17.

Learning Outcomes:

Students will be able to write correct and robust software.

Students will analyze the interaction between hardware and software.
Students will be able to apply their technical knowledge to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
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Students will collaborate effectively in teams.
Students will be able to gather relevant information, examine information and form a conclusion based on that information.

Students will be able to understand and create arguments supported by quantitative evidence, and they can clearly communicate those arguments in a variety of formats.

Department Mission:

The Mathematical, Information, and Computer Sciences department at Point Loma Nazarene University is committed to maintaining a curriculum that provides its students with the tools to be productive, the passion to continue learning, and Christian perspectives to provide a basis for making sound value judgments.

Course Information:

Missed Classes: Missed classes due to PLNU activities (i.e., sports teams, choirs, etc), will not count against students. It is the student's responsibility to inform the professor of when they will be gone. "unexcused" absences will count against your grade (see project grading).

Late work & Exams: I am not planning on accepting late work. Missed exams, due to unforeseen life events, can be made up.

Warmup Project: There will be a one-and-a-half-week warmup project before we start a large semester project.

Project: Each person in the class will be assigned to a team and will work with that team. Part of the grade for the project is based on the project's completion and part on you doing your part on the project. GIT, our version control system, keeps track of who has worked on which files in the project.

Presentation: Each person will be in charge of giving a presentation about their team's project, what it is, where it is going, who is doing what, current problems, etc.

Final: It is scheduled for Thursday of Finals week at 1:30pm. There will be an assignment due during the final period.

Cheating: Do not copy another student's work on the warmup Project. For the main project you may copy at your leisure.

Cell Phones & Laptops: Don't use cell phones in class.

Be Courteous and Respectful.

Grading:

Project	65%
Presentation	15%
Warmup Project	10%
Project Review Assignment	10%

Grading scale

93 – 100%	A
90 – 92%	A-
87 – 89%	B+
83 – 86%	B
80 – 82%	B-
77 – 79%	C+
73 – 76%	C
70 – 72%	C-
67 – 69%	D+
63 – 67%	D
60 – 62%	D-
0 – 59%	F

PLNU Policies

Attendance:

Attendance is expected at each class session. In the event of an absence you are responsible for the material covered in class and the assignments given that day.

Regular and punctual attendance at all classes is considered essential to optimum academic achievement. If the student is absent from more than 10 percent of class meetings, the faculty member can file a written report which may result in de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice until the university drop date or, after that date, receive the appropriate grade for their work and participation.

See http://catalog.pointloma.edu/content.php?catoid=24&navoid=1581#Class_Attendance in the Undergraduate Academic Catalog.

Class Enrollment:

It is the student's responsibility to maintain his/her class schedule. Should the need arise to drop this course (personal emergencies, poor performance, etc.), the student has the responsibility to follow through (provided the drop date meets the stated calendar deadline established by the university), not the instructor. Simply ceasing to attend this course or failing to follow through to arrange for a change of registration (drop/add) may easily result in a grade of F on the official

transcript.

Academic Accommodations:

If you have a diagnosed disability, please contact PLNU's Disability Resource Center (DRC) within the first two weeks of class to demonstrate need and to register for accommodation by phone at 619-849-2486 or by e-mail at DRC@pointloma.edu. See [Disability Resource Center](#) for additional information. For more details see the PLNU catalog: http://catalog.pointloma.edu/content.php?catoid=24&navoid=1581#Academic_Accommodations

Students with learning disabilities who may need accommodations should discuss options with the instructor during the first two weeks of class.

Academic Honesty:

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for that assignment or examination, or, depending on the seriousness of the offense, for the course. Faculty should follow and students may appeal using the procedure in the university Catalog.

See http://catalog.pointloma.edu/content.php?catoid=24&navoid=1581#Academic_Honesty for definitions of kinds of academic dishonesty and for further policy information.

Final Exam: Thursday of Finals week at 1:30pm

The final exam date and time is set by the university at the beginning of the semester and may not be changed by the instructor. This schedule can be found on the university website and in the course calendar. No requests for early examinations will be approved. Only in the case that a student is required to take three exams during the same day of finals week, is an instructor authorized to consider changing the exam date and time for that particular student.

Copyright Protected Materials:

Point Loma Nazarene University, as a non-profit educational institution, is entitled by law to use materials protected by the US Copyright Act for classroom education. Any use of those materials outside the class may violate the law.

Credit Hour:

In the interest of providing sufficient time to accomplish the stated course learning outcomes, this class meets the PLNU credit hour policy for a 3 unit class delivered over 15 weeks. Specific details about how the class meets the credit hour requirements can be provided upon request.

Schedule

Monday	Tuesday	Weds	Thu	Friday
Jan: 9	10 (it's a Monday!)	11	12 Intro – Warm up project team choices	13
16 (no class)	17 Remedial SE – Version control	18	19 Remedial SE – Agile, User stories	20
23	24 Warm up project end, Project team and choices	25	26 Project start	27
30	31 How to do a good presentation	Feb: 1	2	3
6	7 Presentation 1	8	9 Presentation 2	10
13	14 Presentation 3	15	16 Presentation 4	17
20	21 Presentation 5	22	23 Presentation 6 & 7	24
27 NDSS	28 NDSS	March 1 Birthday	2 End Iteration 1	3
March: 6	7 (spring break)	8	9 (spring break)	10
13	14 Presentation 8 & 9	15	16 Presentation 10	17
20	21 Presentation 11	22	23 Presentation 12	24
27	28 Presentation 13	29	30 Presentation 14	31
April: 3	4 Presentation 15	5	6 Presentation 16	7
10	11 Presentation 17	12	13 (Easter break)	14
17 (Easter break)	18 Presentation 18 & 19	19	20 Presentation 20 & 21	21

24	25 Presentation 22 & 23	26	27 End Iteration 2 – Project Review assignment given out	28
May: 1	2	3	4 Final – Project Review Due	5