CSC4093-1 SP23 - Software Project

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CSC4093

Software Project

Spring 2023

4 units

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 (mailto:bmood@pointloma.edu)

619 849 2269

Rohr Science 216

Meeting Times and Locations:

Lecture:

T – RS295 - 3:00pm to 5:30pm

Tentative Open Office Hours:

Monday: 12:15 – 1:15 @ Caf; 2:30 - 4:15 @ office

Thursday: 12:00 – 1:00pm @ Caf; 1:00pm – 2:45pm @ office.

Friday: 12:15 – 1:15 @ Caf; 2:30 – 3:30 @ office

Tentative On-Request-Only Office Hours

Monday: 9:30 – 10:45am @ office

Friday: 9:30 – 10:45am @ office

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.

COURSE 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.
- Students will be able to write about their work with precision, clarity and organization.
- 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.

Additional Course Information:

Missed Classes: Homework/Quizzes/Exams missed due to PLNU excused absences (i.e., sports teams, choirs, etc), can be made up. Missed Quizzes/Exams/etc. due to emergencies can be made up once the dean of students informs Dr. Mood that PLNU has approved the reason. Non-emergency missed exams will result in a zero. It is the student's responsibility to inform the professor of when they will be gone. Missed class activities, which are due to a non-dean of students approved-emergency situation, will result in a zero.

Grading:

Tutorials/Assignment(s)	15%
Project 1	27.5%
Project 2	27.5%
Unity3D Final	30%

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

COURSE CREDIT HOUR INFORMATION

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. It is anticipated that students will spend a minimum of 37.5 participation hours per credit hour on their coursework. For this course, students will spend an estimated 112.5 total hours meeting the course learning outcomes. The time estimations are provided in the Canvas modules.

USE OF TECHNOLOGY

In order to be successful in the online or hybrid environment, you'll need to meet the minimum technology and system requirements; please refer to the **_Technology and System Requirements_ (https://help.pointloma.edu/TDClient/1808/Portal/KB/ArticleDet?ID=108349)** information. Additionally, students are required to have headphone speakers, microphone, or webcams compatible with their computer available to use. Please note that any course with online proctored exams require a computer with a camera (tablets are not compatible) to complete exams online.

Problems with technology do not relieve you of the responsibility of participating, turning in your assignments, or completing your class work.

STATE AUTHORIZATION

State authorization is a formal determination by a state that Point Loma Nazarene University is approved to conduct activities regulated by that state. In certain states outside California, Point Loma Nazarene University is not authorized to enroll online (distance education) students. If a student moves to another state after admission to the program and/or enrollment in an online course, continuation within the program and/or course will depend on whether Point Loma Nazarene University is authorized to offer distance education courses in that state. It is the student's responsibility to notify the institution of any change in his or her physical location. Refer to the map on **State Authorization (https://www.pointloma.edu/offices/office-institutional-effectiveness-research/disclosures)** to view which states allow online (distance education) outside of California.

SPIRITUAL CARE

PLNU strives to be a place where students grow as whole persons. To this end, we provide resources for our students to encounter God and grow in their Christian faith.

If you have questions, a desire to meet with the chaplain, or if you have prayer requests, you can contact the **Office of Student Life and Formation (https://www.pointloma.edu/offices/student-life-formation)** .

PLNU COPYRIGHT POLICY ⊛

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.

PLNU ACADEMIC HONESTY POLICY⊛

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 **Academic Policies (https://catalog.pointloma.edu/content.php?catoid=52&navoid=2919#Academic_Honesty)** for definitions of kinds of academic dishonesty and for further policy information.

PLNU ACADEMIC ACCOMMODATIONS POLICY⊛

PLNU is committed to providing equal opportunity for participation in all its programs, services, and activities. Students with disabilities may request course-related accommodations by contacting the Educational Access Center (EAC), located in the Bond Academic Center (**EAC@pointloma.edu (mailto:EAC@pointloma.edu)** or 619-849-2486). Once a student's eligibility for an accommodation has been determined, the EAC will issue an academic accommodation plan ("AP") to all faculty who teach courses in which the student is enrolled each semester.

PLNU highly recommends that students speak with their professors during the first two weeks of each semester/term about the implementation of their AP in that particular course and/or if they do not wish to utilize some or all of the elements of their AP in that course.

Students who need accommodations for a disability should contact the EAC as early as possible (i.e., ideally before the beginning of the semester) to assure appropriate accommodations can be provided. It is the student's responsibility to make the first contact with the EAC.

SEXUAL MISCONDUCT AND DISCRIMINATION

Point Loma Nazarene University faculty are committed to helping create a safe learning environment for all students. If you (or someone you know) have experienced any form of sexual discrimination or misconduct, including sexual assault, dating or domestic violence, or stalking, know that help and support are available through the Title IX Office at **pointloma.edu/Title-IX (http://pointloma.edu/Title-IX)** . Please be aware that under Title IX of the Education Amendments of 1972, it is required to disclose information about such misconduct to the Title IX Office.

If you wish to speak to a confidential employee who does not have this reporting responsibility, you can contact Counseling Services at **counselingservices@pointloma.edu (mailto:counselingservices@pointloma.edu)** or find a list of campus pastors at **pointloma.edu/title-ix (http://pointloma.edu/title-ix)**

Final Exam: 5/4 at 4:30pm

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 th 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.

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.

COURSE MODALITY DEFINITIONS

1. **In-Person:** Course meetings are face-to-face with no more than 25% online delivery.
2. **Online:** Coursework is completed 100% online and asynchronously.
3. **Online Synchronous:** Coursework is completed 100% online with required weekly online class meetings.
4. **Hybrid:** Courses that meet face-to-face with required online components.

PLNU ATTENDANCE AND PARTICIPATION POLICY⍟

Regular and punctual attendance at all class sessions is considered essential to optimum academic achievement. If the student is absent for more than 10 percent of class sessions, the faculty member will issue a written warning of

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.

Tentative Schedule

Monday	Tuesday	Wednesday	Thu	Friday
Jan: 9	10:	11:	12:	13
16 (no classes)	17 Tutorial 1 due We are meeting 😊	18	19	20
23	24 Tutorial 2 due We are meeting 😊	25	26	27
30	31 Tutorial 3 due Team Prefs due at midnight We are meeting 😊	1	2 **Start project 1**	3
6	7 No class	8	9	10
13	14	15	16	17

	No class			
20	21 Mid evals due We are meeting 😊	22	23	24
27 NDSS	28 No class	1 NDSS	2	3
6 (spring break)	**7**	**8**	**9**	**10 (spring break)**
13	14 No Class	15	16 Project 2 proposals due	17
20	21 Project 1 Due @ beginning of class Project 1 final evals due Team Prefs Due We are meeting 😊	22	23 **Project 2 start**	24
27	28 No Class	29	30	31
3	4 No Class	5	6 **EASTER**	7 **EASTER**

10 **EASTER**	11 Project 2 mid evals due We are meeting 😊	12	13	14
17	18 No Class	19	20	21
24	25 No Class "Assignment" due	26	27	28
1	2	3	4 Project 2 due @ beginning of class Project 2 final evals due **Programming Final**	5

Course Summary:

Date	Details	Due
Tue Jan 17, 2023	📝 **Tutorial 1 (https://canvas.pointloma.edu/courses/66433/assignments/877937)**	due by 3pm
Tue Jan 24, 2023	📝 **Tutorial 2 (https://canvas.pointloma.edu/courses/66433/assignments/877938)**	due by 3pm

Date	Details	Due
Tue Jan 31, 2023	📝 **Tutorial 3** (https://canvas.pointloma.edu/courses/66433/assignments/877939)	due by 3pm
	📝 **Team Prefs** (https://canvas.pointloma.edu/courses/66433/assignments/877932)	due by 11:59pm
Tue Feb 21, 2023	📝 **Team Eval Mid** (https://canvas.pointloma.edu/courses/66433/assignments/877927)	due by 11:59pm
Thu Mar 16, 2023	📝 **(Optional) Project 2 Proposal** (https://canvas.pointloma.edu/courses/66433/assignments/886486)	due by 11:59pm
Tue Mar 21, 2023	📝 **Project 1 Score** (https://canvas.pointloma.edu/courses/66433/assignments/877931)	due by 3pm
	📝 **Team Eval Final** (https://canvas.pointloma.edu/courses/66433/assignments/877928)	due by 3pm
	📝 **Team Prefs** (https://canvas.pointloma.edu/courses/66433/assignments/877934)	due by 11:59pm
Tue Apr 11, 2023	📝 **Team Eval Mid** (https://canvas.pointloma.edu/courses/66433/assignments/877930)	due by 11:59pm
Thu May 4, 2023	📝 **Project 2 Score** (https://canvas.pointloma.edu/courses/66433/assignments/877933)	due by 4:30pm
	📝 **Team Eval Final** (https://canvas.pointloma.edu/courses/66433/assignments/877929)	due by 4:30pm
	📝 **Unity3D Programming Final** (https://canvas.pointloma.edu/courses/66433/assignments/886484)	due by 4:30pm
Fri May 5, 2023	📝 **Final Assignment (Date Placeholder / Date may change with some warning)** (https://canvas.pointloma.edu/courses/66433/assignments/886485)	due by 11:59pm