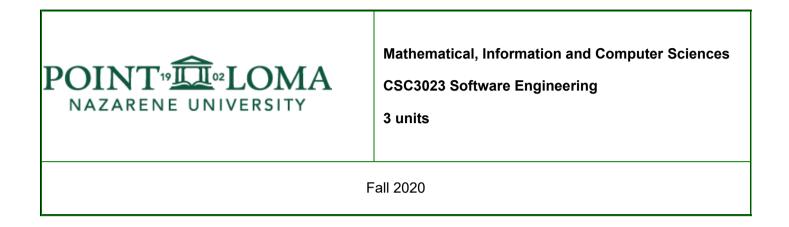
To-Do Date: Sep 1 at 11:59pm



Instructor: Benjamin Mood
Phone: 619.849.2269
Email: bmood@pointloma.edu
Office hours via Discord and Zoom:
M: 8:30 - 9:30, 1:30 - 2:30 T: 1:45 - 3:00 W: 8:30 - 9:30 R: 9:30 - 10:30, 3:00 - 4:15 F: 7:30 - 9:30, 12:15 - 1:45

PLNU Mission

To Teach ~ To Shape ~ To Send

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.

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 DESCRIPTION

This course offers an in-depth treatment of the software development process. Software analysis and design study emphasizes an object-oriented approach that is introduced and contrasted with traditional design methodologies. CASE tools are used during the design process. Lecture two hours each week. Alternating Years. Offered 2016-17.

COURSE LEARNING OUTCOMES

- 1. Students will be able to write correct and robust software.
- 2. Students will be able to speak about their work with precision, clarity and organization.
- 3. Students will be able to write about their work with precision, clarity and organization.
- 4. Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand.
- 5. Students will collaborate effectively in teams.
- 6. Students will be able to gather relevant information, examine information and form a conclusion based on that information.

REQUIRED TEXTS AND RECOMMENDED STUDY RESOURCES

- 1. Head First Software Development by Dan Pilone and Russ Miles
- 2. Head First Design Patterns by Eric Freeman and Elisabeth Robson.

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. Specific details about how the class meets the credit hour requirement can be provided upon request. (Based on 37.5 hours of student engagement per credit hour.)

Distribution of Student Learning Hours

Category	Time Expectation in Hours
Reading & Reading quizzes	24
Class Meetings (including exams)	22.25
Projects	66.25
Total Hours	112.5

ASSESSMENT AND GRADING

Graded Components

• **Projects.** Each student will be assigned to a group for each of the three projects. The grade for the projects are a combination of the grades on each project combined with the team evaluations and team meeting attendance. Team members who do extra will be marked higher, team members who do not work as much as other team members will be marked lower.

- Reading Quizzes: There are collaborative reading quizzes on the text covered a particular week. The
 quizzes are due after the lecture to ensure students have an opportunity to ask questions. Students may talk
 through questions with others who are currently working on the quiz, but not give answers to those who are
 not actively working on the quizzes with them.
- Examinations and the Final Examination. Examinations and the Final Examination will include problems and questions over material assigned in the text, readings and handouts, as well as material presented in class. No examination shall be missed without prior consent or a well-documented emergency beyond your control. A score of zero will be assigned for an examination that is missed without prior consent or a well-documented emergency beyond your documented emergency beyond your control.
- Late work will not be accepted without prior consent or a well-documented emergency. Up to a maximum of one homework assignment will be accepted up to 3 days late provided that consent is received from the professor before it is due. Homework assignments that are submitted late without prior consent will be recorded with a score of zero. If more than half of the homework assignments are submitted on time, then the lowest homework score will be dropped from the calculations of the homework grade.
- The examination schedule is included in the daily schedule. This instructor does not intend to accept excuses such as poor communication with parents, benefactors, surf team sponsors and/or travel agents.

Grading Distribution	Percent
Readings Quizzes	5
Two Examinations	25
Final Exam	15
Projects	55
Total	100

Grading Scale

Approximate minimal percentages required to obtain a given grade are:

Standard Grade Scale Based on Percentages					
	A	В	С	D	F
+		87.5-90	77.5-80	67.5-70	
	92.5 -100	82.5-87.5	72.5-77.5	62.5 -67.5	0-60
_	90-92.5	80-82.5	70-72.5	60-62.5	

STATE AUTHORIZATION

Rule suspended during the COVID-19 pandemic. 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 <u>State Authorization</u> (<u>https://www.pointloma.edu/offices/office-institutional-effectiveness-research/disclosures</u>) to view which states allow online (distance education) outside of California.

INCOMPLETES AND LATE ASSIGNMENTS

All assignments are to be submitted/turned in by the beginning of the class session when they are due including assignments posted in Canvas. Incompletes will only be assigned in extremely unusual circumstances.

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 <u>Academic Policies</u> (<u>http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278</u>) for definitions of kinds of academic dishonesty and for further policy information.

PLNU ACADEMIC ACCOMMODATIONS POLICY

While all students are expected to meet the minimum standards for completion of this course as established by the instructor, students with disabilities may require academic adjustments, modifications or auxiliary aids/services. At Point Loma Nazarene University (PLNU), these students are requested to register with the Disability Resource Center (DRC), located in the Bond Academic Center. (DRC@pointloma.edu (mailto:DRC@pointloma.edu)_or 619-849-2486). The DRC's policies and procedures for assisting such students in the development of an appropriate academic adjustment plan (AP) allows PLNU to comply with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act. Section 504 (a) prohibits discrimination against students with special needs and guarantees all qualified students equal access to and benefits of PLNU programs and activities. After the student files the required documentation, the DRC, in conjunction with the student, will develop an AP to meet that student's specific learning needs. The DRC will thereafter email the student's AP to all faculty who teach courses in which the student is enrolled each semester. The AP must be implemented in all such courses.

If students do not wish to avail themselves of some or all of the elements of their AP in a particular course, it is the responsibility of those students to notify their professor in that course. PLNU highly recommends that DRC students speak with their professors during the first two weeks of each semester about the applicability of their AP in that particular course and/or if they do not desire to take advantage of some or all of the elements of their AP in that course.

PLNU ATTENDANCE AND PARTICIPATION POLICY

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 <u>Academic Policies</u> (http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278) for further information about class attendance.

SPIRITUAL CARE

Please be aware PLNU strives to be a place where you grow as whole persons. To this end, we provide resources for our students to encounter God and grow in their Christian faith. If students have questions, a desire to meet with the chaplain or have prayer requests you can contact the <u>Office of Spiritual Development</u> (https://www.pointloma.edu/offices/spiritual-development)

Monday		Wednesday		Friday
17-Aug	18-Aug	19-Aug	20-Aug	21-Aug
	Chapters 1 + 2 Project Overview + team prefs		Team Meeting time	
24-Aug	25-Aug	26-Aug	27-Aug	28-Aug
	Chapters 3 + 4		Team Meeting time Quiz 1 due Quiz 2 due Puzzle Part 1 demonstrated	
31-Aug	1-Sep	2-Sep	3-Sep	4-Sep
	Chapters 5 + 6		Team Meeting time	

2020	Syllabus :	CSC3023-1 FA20 -	- Software Engineering	
			quiz 3 due puzzle part 2	
7-Sep	8-Sep	9-Sep	demonstrated 10-Sep	11-Sep
	Chapters 7 + 8 + 11		Team Meeting time quiz 4 due puzzle part 3 demonstrated	
14-Sep	15-Sep	16-Sep	17-Sep	18-Sep
	Review		Exam	
21-Sep	22-Sep	23-Sep	24-Sep	25-Sep
	Patterns Intro Singleton Observer Decorator puzzle part 4 due on bitbucket Project Overview + team prefs		Team Meeting time quiz 5 due	
28-Sep	29-Sep	30-Sep	1-Oct	2-Oct
	Command Adapter Facade		Team Meeting time Raptor part I demonstration quiz 6 due	
5-Oct	6-Oct	7-Oct	8-Oct	9-Oct
	Template State Iterator		Team Meeting time Raptor part 2 demonstration quiz 7 due	
12-Oct	13-Oct	14-Oct	15-Oct	16-Oct

Syllabus : CSC3023-1 FA20 - Software Engineering

2/2020	Syllabus : C	SC3023-1 FA20 - Sof	tware Engineering	
	Proxy Compound		Raptor part 3 demonstration quiz 8 due	
19-Oct	20-Oct	21-Oct	22-Oct	23-Oct
	review		Exam	
26-Oct	27-Oct	28-Oct	29-Oct	30-Oct
	graph review Greedy algorithms Raptor part 4 due on bit bucket Project Overview + team prefs		Team Meeting time quiz 9 due	
2-Nov	3-Nov	4-Nov	5-Nov	6-Nov
	backtracking		Team Meeting time quiz 10 due AI part 1 demonstration	
9-Nov	10-Nov	11-Nov	12-Nov	13-Nov
	Dynamic programming		Team Meeting time quiz 11 due Al part 2 demonstration	
16-Nov	17-Nov	18-Nov	19-Nov	20-Nov
	Parallel algorithms		Team Meeting time quiz 12 due Al part 3 demonstration	
23-Nov	24-Nov	25-Nov	26-Nov	27-Nov
		Thanksgiving		Thanksgiving
30-Nov	1-Dec	2-Dec	3-Dec	4-Dec
	Your favorite [or least favorite?] final just *might* be on this day!!!!!			Al part 4 due on bitbucket