


# Course Syllabus

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 <p><b>POINT LOMA</b> NAZARENE UNIVERSITY</p>	<p>Department of Mathematical, Information, and Computer Sciences</p> <p><b>CSC 1011: Computer Programming for Absolute Beginners</b></p> <p>Number of Units: 1</p>
<p>Spring 2022 Quad 2</p> <p>March 2 - April 29</p>	

<p><b>Meeting days: TR</b></p>	<p><b>Instructor: Dr. Lori Carter</b></p>
<p><b>Meeting times: 8:30-9:25</b></p>	<p><b>Phone: 619-849-2352</b></p>
<p><b>Meeting location: Bond 156</b></p>	<p><b>Email: <a href="mailto:loricarter@pointloma.edu">loricarter@pointloma.edu</a></b></p>
<p><b>Office Hours Zoom:</b></p>	<p><b>Please email for appointment. Potential hours MWF 9:30 - 1:00. Other times may be available if those do not work.</b></p>

## 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.

## HEALTH AND SAFETY UPDATE

It is expected that all students will abide by the health and safety standards set by the university. Here is a link to the most current [Health and Safety Guidelines](https://www.pointloma.edu/coronavirus-covid-19-information).  
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## COURSE DESCRIPTION

A gentle introduction to computer programming/scripting in the Python language for those with no prior programming experience. Topics include the use/purpose of programming in the context of different academic disciplines along with the basics of writing code. Students will learn to write simple programs using input and output, conditional statements, loops, and graphics. This class is for anyone who wants to join the coding conversation or to gain a background for more rigorous programming courses.

## COURSE ORGANIZATION

**Lectures:** Most classes will begin with a brief introduction to the lesson that day. Any related PowerPoint slides will be posted on Canvas. Lecture will typically be followed by some lab time where you have an opportunity to work on an exercise or a program related to what we talked about in the lecture. Attendance is important for learning and getting help with the material. Therefore, **participation is a part of your grade.**

**Homework/Classwork:** Homework will consist of working through the tutorials in the book along with any questions and programs assigned for the day. Homework is due to be posted on Canvas on Monday nights before midnight. For the programs you are required to write, you will embed a link to your Trinket. I do not accept late work except in the case of a documented emergency, but I will drop your lowest assignment. Assignments do not have to be complete to be turned in. Partial credit is awarded. There will be one in-class assignment worth 10 points.

**Final Project:** Your final project is a larger program that will be demonstrated on the last day of class. It is not a part of the regular homework, and cannot be dropped. Failure to turn in this assignment will result in a 0 for the assignment. Partial credit will be given for incomplete assignments turned in on time.

**Quizzes:** There will be five quizzes (1 programming and 4 written) given during the quad on Thursdays. These will contain questions about code and what you read about programming in the book during the previous week. Written quizzes are closed book and will be taken on Canvas. Doing your own work on completing the homework will help to prepare you for these. You will have a programming quiz on Thursday, March 31 where you will be asked to write a program without any help from a person. You will be allowed, however, to use the book, any notes, and any previous programs. Quizzes cannot be made up, but I will drop the lowest quiz. For a missed quiz, the first one will be dropped, and subsequent missed quizzes will receive a 0.

**Final Exam:** The final exam is scheduled for Tuesday at 7:30 of finals week and will cover everything discussed during the quad. It will be a written final exam composed of short answer questions. You may or may not be asked to write a program, but you will at least be asked to trace a program and determine what it does. You may be asked to find errors in the program, or alter it in some way. Missing the final exam except in the case of a documented emergency will likely result in a 0 for the exam.

## COURSE LEARNING OUTCOMES

- Students will understand what computer programming is.
- Students will be able to apply their technical knowledge to solve problems.

## REQUIRED TEXTS AND RECOMMENDED STUDY RESOURCES

*Computer Programming...Simply: A Brief Introduction to Computer Programming in Plain English.* Carter. Amazon LLC. (Text will be provided in PDF format)

Additional requirement: Computer with keyboard

## 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 1 unit class delivered over 5 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 37.5 total hours meeting the course learning outcomes. Time estimations for each part of the course are as follows:

Activity	Hours
Class: lectures, group exercises, quizzes, exams	10
Reading	10
Completing homework	10
Studying for exams and quizzes	7.5
Total	37.5

### ASSESSMENT AND GRADING

Student grades will be posted in the Canvas grade book no later than midnight on Tuesday of each week beginning in Week Two of this course. It is important to read the comments posted in the grade book as these comments are intended to help students improve their work. Final grades will be posted within one week of the end of the class. Grades will be based on the following:

Homework	30%
Quizzes	30%
Participation	8%
Final Program	7%
Final Exam	25%

### Grade Scale Based on Percentages

A	B	C	D	F
A 93-100	B+ 87-89	C+ 77-79	D+ 67-69	F Less than 60
A- 90-92	B 83-86	C 73-76	D 63-66	
	B- 80-82	C- 70-72	D- 60-62	

### INCOMPLETES AND LATE ASSIGNMENTS

In general, late assignments are not accepted. In the case of quizzes and homework assignments, the lowest score will be dropped. Partial credit is available on assignments turned in on time. 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 [Academic Policies \(http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278\)](http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278) 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) [\\_https://mail.google.com/mail/?view=cm&fs=1&tf=1&to=EAC@pointloma.edu](https://mail.google.com/mail/?view=cm&fs=1&tf=1&to=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.

### **PLNU ATTENDANCE AND PARTICIPATION POLICY**

Regular and punctual attendance at all **synchronous** class sessions is considered essential to optimum academic achievement. If the student is absent for more than 10 percent of class sessions (virtual or face-to-face), 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. In some courses, a portion of the credit hour content will be delivered **asynchronously** and attendance will be determined by submitting the assignments by the posted due dates. See [Academic Policies \(https://catalog.pointloma.edu/content.php?catoid=46&navoid=2650#Class\\_Attendance\)](https://catalog.pointloma.edu/content.php?catoid=46&navoid=2650#Class_Attendance) in the Undergraduate Academic Catalog. If absences exceed these limits but are due to university excused health issues, an exception will be granted.

#### **Asynchronous Attendance/Participation Definition**

A day of attendance in asynchronous content is determined as contributing a substantive note, assignment, discussion, or submission by the posted due date. Failure to meet these standards will result in an absence for that day. Instructors will determine how many asynchronous attendance days are required each week.

#### **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.

## 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 [Office of Spiritual Development](https://www.pointloma.edu/offices/spiritual-development) (<https://www.pointloma.edu/offices/spiritual-development>)

## USE OF TECHNOLOGY

Since most courses will have online components, in order to be successful in the online environment, you'll need to meet the minimum technology and system requirements; please refer to the [Technology and System Requirements](https://help.pointloma.edu/TDCClient/1808/Portal/KB/ArticleDet?ID=108349) (<https://help.pointloma.edu/TDCClient/1808/Portal/KB/ArticleDet?ID=108349>) information. Additionally, students are required to have headphone speakers compatible with their computer available to use. If a student is in need of technological resources please contact [student-tech-request@pointloma.edu](mailto:student-tech-request@pointloma.edu) (<mailto:student-tech-request@pointloma.edu>).

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) (<https://www.pointloma.edu/offices/office-institutional-effectiveness-research/disclosures>) to view which states allow online (distance education) outside of California.

## Final Exam: Date and Time:

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.








## Anticipated Schedule










Monday	Tuesday	Wed	Thursday	Fri
28	Mar 1	2 Quad 2 classes start	3 Syllabus, CH 1-2 Get Trinket working	4
7	8	9	10	11

Spring break	Spring break	Spring break	Spring break	Spring break
14 Ch 1-2 questions due	15 Chapter 3.1-3.4	16	17 Written quiz ch 1-2 Lecture: Chapter 3.5-3.8	18
21 Chapter 3 questions due	22 Lecture: Chapter 4, graphics	23	24 Written quiz ch 3 Chapter 5.1 if statements	25
28 Chapter 4 questions and lab due	29 More if statements – finish ch 5	30	31 Programming quiz	Apr 1
4 Chapter 5 questions due	5 In class exercise (10 pts) Predictive algorithms	6	7 Written quiz ch 4-5 Start Chapter 6 loops	8
11	12 Finish chapter 6	13	14 Easter brk	15 Easter brk
18 Easter brk Chapter 6 questions due	19 More loops ch 7	20	21 Written quiz ch 6-7 Start chapter 8	22

25	26	27	28	29
Chapter 7-8 questions due	Project		Demo projects Python on other platforms, and with other versions. Questions on exam	
May 2 Finals	<b>Final 7:30</b>	Finals	Finals	Finals

## Course Summary:

Date	Details	Due
Mon Mar 14, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770297">WK1 Homework</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770297">https://canvas.pointloma.edu/courses/60911/assignments/770297</a> )	due by 11:59pm
Thu Mar 17, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770385">Quiz 1 Chapters 1-2</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770385">https://canvas.pointloma.edu/courses/60911/assignments/770385</a> )	due by 8:45am
Mon Mar 21, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/774025">WK2 Homework</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/774025">https://canvas.pointloma.edu/courses/60911/assignments/774025</a> )	due by 11:59pm
Thu Mar 24, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770462">Quiz 2 Chapter 3</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770462">https://canvas.pointloma.edu/courses/60911/assignments/770462</a> )	due by 8:45am
Mon Mar 28, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770298">WK3 Homework</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770298">https://canvas.pointloma.edu/courses/60911/assignments/770298</a> )	due by 11:59pm
	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770301">WK3 Homework</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770301">https://canvas.pointloma.edu/courses/60911/assignments/770301</a> )	due by 11:59pm
Thu Mar 31, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770463">Quiz 3 Programming Quiz</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770463">https://canvas.pointloma.edu/courses/60911/assignments/770463</a> )	due by 9:20am

Date	Details	Due
Mon Apr 4, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770302">WK4 Homework</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770302">https://canvas.pointloma.edu/courses/60911/assignments/770302</a> )	due by 11:59pm
Tue Apr 5, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770312">Predictive Algorithm classwork</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770312">https://canvas.pointloma.edu/courses/60911/assignments/770312</a> )	due by 9:25am
Thu Apr 7, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770464">Quiz 4 Chapter 5 with tracing</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770464">https://canvas.pointloma.edu/courses/60911/assignments/770464</a> )	due by 8:45am
Mon Apr 18, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770307">WK6 homework</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770307">https://canvas.pointloma.edu/courses/60911/assignments/770307</a> )	due by 11:59pm
Thu Apr 21, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770465">Quiz 5 Chapters 6-7</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770465">https://canvas.pointloma.edu/courses/60911/assignments/770465</a> )	due by 8:45am
Mon Apr 25, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770311">WK7 Homework</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770311">https://canvas.pointloma.edu/courses/60911/assignments/770311</a> )	due by 11:59pm
Thu Apr 28, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770310">Final Programming Assignment</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770310">https://canvas.pointloma.edu/courses/60911/assignments/770310</a> )	due by 9am
Tue May 3, 2022	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770461">Final Exam</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770461">https://canvas.pointloma.edu/courses/60911/assignments/770461</a> )	due by 7:30am
	 <a href="https://canvas.pointloma.edu/courses/60911/assignments/770292">Final Exam - begin at 10:00 Thursday</a> ( <a href="https://canvas.pointloma.edu/courses/60911/assignments/770292">https://canvas.pointloma.edu/courses/60911/assignments/770292</a> )	