

California Lutheran University

Bachelor's Degree for Professionals

Title:	CSC 110, Concepts of Programming
Term:	Summer Term 2016, May 23 – August 4
Classroom:	Swenson, Room 111, Tuesday 6-9.30pm
Instructor:	Dr. Matthews
Email:	gmatthew@callutheran.edu
Office:	D19
Phone:	805 493 3543
Office Hours:	By appointment
Drop Dates:	Monday June 6 th 2016 – Last day to add/drop without financial penalty Monday July 13 th - Last day to withdraw without academic penalty

Course Description

The course is for students who want to learn a basic concept of programming. Emphasis is on problem solving, design, and programming as the core skills of computer science. A simple, but yet powerful object-oriented programming language Python is used to illustrate these ideas. Python is very flexible and has an easy set up to start programming. Topics covered in class are variables, data types, assignment, functions, decision structures, loop structures and objects.

Textbooks/Required Reading

John Zelle
Python Programming: An Introduction to Computer Science
Second Edition
Franklin, Beedle & Associates Inc
ISBN-10: 1590282418, ISBN-13: 978-1590282410

Course Outcomes

Python is used to illustrate fundamental principles of design and programming that apply in any programming languages. Python is an interpreted, interactive, object-oriented programming language. It combines remarkable power with very clear syntax. Yet, Python is used in a wide variety of real world applications, from small-scale projects to more difficult endeavors like game programming.

Upon completion of this course successfully, you should be able to accomplish the following at a beginner level:

- Develop an algorithm and solve problems

- Write programs using traditional programming elements such as IF/THEN, FOR, WHILE, FUNCTIONS.
- Writing object oriented programs: define class, use class.
- Test and debug programs.

Learning outcome goals are:

1. Technology Integration
2. Information Technology
3. Analysis/Critical Thinking.

Course Assignments/Requirements/Course Schedule:

There will be readings (including hands-on projects), assignments (review questions), and case projects, which are all from the textbook and are detailed in the following table.

Assignments (review questions) are to be submitted on Blackboard, and will be discussed on due dates.

The tentative course schedule is as follows:

Week	Subject
1	Introduction to Python. First program simple arithmetic operations, strings
2	Evaluation, Assignment, If-Thens Functions
3	While loops
4	For loops, lists
5	File processing
6	Mid-term
7	Dictionaries
8	Classes and Objects Exceptions, Program Structure and Design
9	Writing larger programs
10	Review
11	Exam

Student Workload/Carnegie Hours:

The expectation for this course is that you will spend the equivalent of 4 hours per week in class (an hour is defined as 50 minutes), and you will spend approximately 9 hours per week studying and completing assignments for this course.

Activity	Instructor-Led Hours		Homework Hours		Remarks
	Weekly	Course	Weekly	Course	
Readings of required text			5	55	Over 11 weeks, uneven distribution

Weekly Classes	3 hr. 20 min.	36 hrs. 40 min.			Includes final exam
Assignments				25	Average, varies by student
Test Prep				10	Average, varies by student
Discussion Boards		13 hrs 20 min			Average, varies by student
Final Exam Prep				10	Average, varies by student
Total		50		100	

Grading

University Honesty Policy will be observed. Grades will be allocated as follows:

- Homework 40%
- Discussion Boards 10%
- Tests 20%
- Exams 30%

Overall score for final grade is as follows: A is 97-100, 94-96 for A-, 91-93 for B+, 88-90 for B, 85-87 for B-, 82-84 for C+, 79-81 for C, 76-78 for C-, 73-75 D+, 70-72 for D, 67-69 for D-, and F otherwise.

10% daily deduction for all late homework.

Attendance Policy

While there is no official attendance policy for the course, the reality is that if you miss class you will fall behind on material and your homework and participation grades will suffer.

Course Evaluations Statement:

All course evaluations are conducted online. Your feedback is important to us. You will receive an email message reminding you when the website is open for your feedback. The link is:

<http://courseval.callutheran.edu>

Disability Statement:

California Lutheran University is committed to providing reasonable accommodations in compliance with ADA of 1990 and Section 504 of the Rehabilitation Act of 1973 to students with documented disabilities. If you are a student requesting accommodations for this course, please contact your professor at the beginning of the semester and register with the Disability Support Services Coordinator, Wendy Jimenez, for the facilitation and verification of need. The Disability Support Services Coordinator is located in the Center for Student Success Office located at 3259 Pioneer Street, and can be contacted by calling 805.493.3260 or emailing wjimene@callutheran.edu.

Statement on Academic Honesty:

The educational programs of California Lutheran University are designed and dedicated to achieve academic excellence, honesty and integrity at every level of student life. Part of CLU's dedication to academic excellence is our commitment to academic honesty. Students, faculty, staff and administration share the responsibility for maintaining high levels of scholarship on campus. Any behavior or act which might be defined as "deceitful" or "dishonest" will meet with appropriate disciplinary sanctions, including dismissal from the University, suspension, grade F in a course or various forms of academic probation. Policies and procedures regarding academic honesty are contained in the faculty and student handbooks.

Plagiarism, cheating, unethical computer use and facilitation of academic dishonest are examples of behavior which will result in disciplinary sanctions. Plagiarism includes, but is not limited to:

- word for word copying without using quotation marks or presenting the work as yours
- using the ideas or work of others without acknowledgement
- not citing quoted material. Students must cite sources for any information that is not either the result of original research or common knowledge.

Standards of Student Conduct Statements:

- [Student Life Handbook](#)
- [Academic Honesty Statement](#)

University Harassment Policy

Be civil to each other, both on- and offline. For information on the University's **student harassment policy and rights, please go to the following link:**
[Student Life Handbook](#)

Sexual Misconduct

California Lutheran University does not tolerate any degree of sexual misconduct on or off-campus. We encourage you to report if you know of, or have been the victim of, sexual harassment, misconduct, and/or assault. If you report this to a faculty member, she or he must notify Cal Lutheran's Title IX Coordinator about the basic facts of the incident. More information about your options for reporting can be found at: <http://www.callutheran.edu/title-ix/>

Pearson Library

Pearson Library provides access to scholarly books, journals, ebooks, and databases of full text articles from scholarly journals. To begin using these materials, visit the library web page <http://www.callutheran.edu/library>

There are many ways to contact Pearson Library for research assistance, no matter where you are!

- Email Yvonne Wilber (Professionals liaison) at ywilber@callutheran.edu
- General Library email: CLUlibrary@callutheran.edu
- Library main phone: 805.493.3250
- Text us your question: 805.493.3867
- Get more help at: <http://www.callutheran.edu/library/help/>

CLU Writing Center

The Writing Center provides 1:1 writing consultations, in-person and online, with trained undergraduate and graduate writing consultants. We welcome all writing-related projects at any stage of the writing process across the diverse disciplines of study at CLU. The Writing Center also hosts writing workshops, provides in-class visits, facilitates writing groups, and offers a writer's studio option for longer, sustained projects. Services suit writers of all levels, including traditional undergraduates, graduate students from all fields, all English language learners, and accomplished scholars alike. All members of the CLU community with an @callutheran.edu email address are welcome to make use of our services. For more information, please visit at

www.callutheran.edu/writing_center or call 805-493-3257. Please schedule appointments online through MyCLU Blackboard with the yellow “The Writing Center” icon in “Tools,” or stop by The Writing Center itself, located in the Darling Collaboration Suite of Pearson Library.

Veterans Resources

If you are a veteran, military member, or a family member of a veteran or military member, please refer to Cal Lutheran’s Veterans Resources webpage for important information: <http://www.callutheran.edu/veterans/> Also, if you are a veteran receiving benefits and you are struggling in a class, you most likely qualify for free tutoring. Please contact the Veterans Coordinator, Jenn Zimmerman, veterans@callutheran.edu or 805.493.3648, for more information.

Help Desk

Students may contact the Help Desk about telephone, network, wireless network, software questions password problems, hardware problems, and general consultation (i.e. you cannot log into your MyCLU portal, or you are having problems with Blackboard). Please click on the following link for more information http://www.callutheran.edu/iss/technology_services/helpdesk.php or call: 805.493.3698

Final Note

This syllabus is subject to change. Every effort will be made to alert students to changes that occur in a timely manner.