

California Lutheran University

Bachelor's Degree for Professionals

Computer Science Department

CSC 210

Introduction to Computer Programming Fall Term of 2015

Instructor

Engr. Rabin M. Polito, Office: CS D14, Phone: (805) 754-4036
E-mail: rpolito@callutheran.edu

Location, Duration and Time

Peter's Hall 105, Wednesdays 6:00 PM – 9:30 PM
August 31, 2015 to November 16, 2015

Drop Dates

September 14th: Last day to add/drop without financial penalty
October 12th: Last day to withdraw without academic penalty

Office hours

- D21 , Mondays 2:30 – 6:00 PM.
- Instructor may be available to help specific problems using email system only. The operative word is 'may'.

Book (Recommended Only)

Y. Daniel Liang. *Introduction to Java Programming Comprehensive Version 10th Edition*, Pearson-Prentice Hall, ISBN: 0-13-213080-7.

Recommended Reading: The Java Developer's Guide to Eclipse, Second Edition ISBN: 0-321-30502-7.

Software

- Eclipse IDE (<http://www.eclipse.org/download>)
- TextPad (any version)

Prerequisites

Math 110 or equivalent with a grade of C or higher

Catalog Course Description

This course is a first semester computer programming course. It introduces the principles of computer science, problem solving methods and algorithm development using a high-level language such as Java. This is a programming class primarily for computer science, computer information system, mathematics and science majors. The ability to use a computer is essential.

Course Objectives

Computer is nothing but a machine that does exactly what it is instructed to do. Unfortunately, computers only understand 0's and 1's. In order to better use the computer, we need to use certain utilities to develop natural-language-like programs and translate them into machine codes. An advanced programming language such as Java is well suited for this endeavor. The objective of this course is to introduce various features of a high-level programming language Java.

Upon completion of this course, the student should be able to accomplish the following:

- A. Develop an algorithm and solve logic problems.
- B. Develop problem solving skills and a taste of software engineering.
- C. Writing object-oriented programs, define class, use class.
- D. Test and debug programs.
- E. How to use arrays, strings, primitive data types and abstract data types
- F. Create methods, classes and objects
- G. Analyze object-oriented programming concepts and functions.
- H. Examine logic controls (if then else), iteration commands.
- I. Create program designs incorporating requirements, specifications, validation, and other documentation.
- J. Be able to do File handling incorporating sequential files, fixed delimited files, binary files and different methods of retrieval systems.

Course Schedule

- Week I and II – Introduction to Java Programming using Eclipse/TextPad.
Discussions on Primitive Data types Project #1
and Project #2.
- Week III and IV – Conditional Statements, Text-based programming Outputs.

Writing Conversational Modes Projects #3,
Project #4.

- Week V – Iterative loops and commands.
Single and Double Dimensions Array
Manipulations Project #5, Project #6.
Mid-term examination. Chapters 1 – 6.
- Week VI – Classes, Objects and Methods.
Constructors, Accessors, Mutators and
Facilitators Projects #7, Project #8.
- Week VII – More on Objects and Classes
The String Object, Simple File Class
Implementation Inheritance
Project #9, Project # 10.
- Week VIII – GUI Basics and Controls.
My First JApplet and JFrame
Programs Project # 11, Project #
12.
- Week IX – File Handling, fixed, variable and delimited files,
Sequential search methods. Sorting of delimited files and ASCII files
Exception Handling
Project #13, Project #14.
- Week X and XI – Review on Chapters 1 – 14, 17, 18.
Final Project 15 and Final exam.

The schedule above is subject to change based on class developments. This means that the schedule may cover more topics, but never less.

Student Workload/Carnegie Hours:

The expectation is that a 4-credit course will meet for 50 hours of instructional time and will have 100 hours of out-of-class work (homework).

- As our 4-credit courses meet for about 36-37 hours in-person, the remaining 13-14 hours of instructional time need to be handled via online instructions (flipped classes, discussion boards, etc.).
- There should be approximately 9 hours of homework per week (of course this may vary depending on the week)

Carnegie Hours Chart

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
Article Assignment				10	Average, varies by student
Blog Post		2 hrs. 20 min.			Average, varies by student
Mid-term Prep				10	Average, varies by student
Discussion Board I		4			Average, varies by student
Flipped Class (recorded lecture)		4			
Case Study		3			Average, varies by student
Final Paper				15	Average, varies by student
Final Exam Prep				10	Average, varies by student
Total		50		100	

Grading (Teacher discretion)

Course Grade Distribution

- Class participation : 10%
- Projects/Homework/Tests : 60%
- Final exam : 30%

Grading

Upon application of weighted percentage, the following will be the criteria for your final grade:

- | | |
|---|------------|
| ○ If your final percent is greater than or equal to 93% | Grade = A |
| ○ Else, if your final percent is greater than or equal to 90% | Grade = A- |
| ○ Else, if your final percent is greater than or equal to 87% | Grade = B+ |
| ○ Else, if your final percent is greater than or equal to 83% | Grade = B |
| ○ Else, if your final percent is greater than or equal to 80% | Grade = B- |
| ○ Else, if your final percent is greater than or equal to 77% | Grade = C+ |
| ○ Else, if your final percent is greater than or equal to 70% | Grade = C |
| ○ Else, if your final percent is greater than or equal to 60% | Grade = D |
| ○ Else, | Grade = F |

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 at 3259 Pioneer Street, and can be contacted by calling 805.493.3878 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](#)

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/iss/research/>

- To contact a librarian:
- Chat on the Library's home page
- Email: CLUlibrary@callutheran.edu
- Phone: (805) 493-3250.
- CLU's satellite locations, see <http://www.callutheran.edu/iss/research/satellite.php> for the full range of services provided.

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.

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/>

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 email specific details about your problems to helpdesk@callutheran.edu, 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.

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