

Co Sci 407 (or CS 102) - Programming Logic and Design

Course Information

Sect 20892 - LEC - INST 2006 Times: M W 10:15 AM - 12:25 PM

Sect 20895 - LAB - Online Sect 24676 - LEC - Online Sect 24677 - LAB - Online

Final Exam: Oct 20, 2019 (Short term, 8 weeks course)

Pre-requisite

MATH 115 Elementary Algebra or MATH 123B Elementary and Intermediate Algebra II.

Advisory

CO SCI 401 or CS 101

Course Description

Covers basic concepts of computer hardware, software, and information representation including binary and hexadecimal number systems. Introduces concepts necessary to analyze, design, code, test, and document programs using top-down structured programming techniques. Introduces Object-Oriented Programming. Hands-on labs using high-level language reinforces structured programming and object-oriented programming concepts.

Student Learning Outcomes

1. Demonstrate the ability to solve problems by examining, selecting, using and evaluating various algorithmic approaches to developing solutions
2. Devise a problem solution to be converted to a program using the following algorithm development techniques: problem analysis, determination of input, output and any required processing.
3. Construct a flow chart, performing a memory trace of the operation of the proposed problem solution, testing and debugging operations and construction of the final algorithm.

Required Text Book(s)

Programming Logic and Design, Comprehensive, 9th Edition by Joyce Farrell MindTap ISBN-13: 9781337274616 NOTE: Printed copy of text book is optional. You only require MindTap Access code.

Optional Reference Book

Think Java - How to think like a computer scientist by Downey and Mayfield

Course Schedule

Note: Schedule subject to change. Please check Canvas regularly for material covered, project/assignment due dates and exams.

Week	Day	Date	Material covered
1	Monday	26-Aug	Unit 1
	Wednesday	28-Aug	Unit 2
2	Monday	2-Sep	Holiday
	Wednesday	4-Sep	Unit 3

3	Monday	9-Sep	Java Lab
	Wednesday	11-Sep	Unit 4
4	Monday	16-Sep	Unit 4-5
	Wednesday	18-Sep	Unit 5
5	Monday	23-Sep	Java Lab
	Wednesday	25-Sep	Review
6	Monday	30-Sep	Unit 6
	Wednesday	2-Oct	Unit 6-7
7	Monday	7-Oct	Unit 7
	Wednesday	9-Oct	Java Lab
8	Monday	14-Oct	Unit 10
	Wednesday	16-Oct	Java Lab
9	Sunday	20-Oct	Finals due

Evaluation Criteria

The graded assignments will be evaluated using the following weighted categories:

Category	Weight
HW	30%
Labs	30%
Unit Tests	15%
Tests	15%
Final Exam	10%
Extra Credit	3%
TOTAL	103%

HW: HW's are programming exercises found at the end of each chapter. Please read carefully, how many and which exercises you have to complete. You may find match-the-columns or a problem defined to be solved using flowchart or pseudocode. Submit all exercises for one unit in a single file. Upload this file in Canvas. This is an individual activity. You may use discussions forum to ask clarifying questions, but you may not post answers there. Remember to upload the solution to the listed exercise(s) in one file, in Canvas. I will be manually grading them.

Labs: There are coding Labs using a programming language. We are using Java as our programming language. You will completed them in MindTap. These are auto-graded.

Unit Tests: Within MindTap, at the completion of the unit, there is a unit test. Each consists of 20 multiple-choice questions. You get two attempts and the your best score is recorded. These are auto-graded.

Tests: There are three Tests administered, on Programming Logic and Design. Test #1 on chapters 1 through 3. Test #2 on chapters 4 and 5. Test #3 on chapters 6 and 7. These are timed exams. Only one attempt is available. These are auto-graded.

Final Exam: Comprehensive on chapters 1-7 and 10. To be completed during the final exams week.

Extra Credit: You will have opportunity to learn other programming logic and Java using other online materials. 1) studio.code.org this site is for pure fun. You may already know about it, from friends, peers, high-school or discovered it yourself. 2) the course is sprinkled with discussion topics. Participate in the discussion, and receive up to 1.5% extra credit. Participation is not clicking likes or copying and pasting material from the internet or just agreeing and disagreeing with someone's topic. Provide insights, inspire others or display your understanding. 3) codingbat.com this site also has Java exercises which assess your understanding of some fundamental features of the Java language. Complete the exercises in Logic, Arrays and Strings and receive up to 1.5% extra credit.

Important and Useful Information

Student Services

To find a comprehensive list of services visit <http://www.lamission.edu/students/>.

Student e-mail ID

Visit the mycollege.laccd.edu to login to your student.laccd.edu account. Important announcements from the LACCD, LAMC, and your Instructor will be sent to this e-mail. It is your responsibility to check this email, by logging on to it regularly. If necessary, ensure that the e-mails from here are being forward.

Disabled Student Programs and Services (DSP&S)

If you are a student with a disability and require classroom accommodations, please see me to discuss arrangements. The sooner I am aware that you are eligible for accommodations, the quicker I will be able to provide them. If you have not done so already, you may also wish to contact the DSP&S Office in Instruction Building 1018 (phone #818.364. 7732/TTD 818.364.7861) and bring a letter stating the accommodations that are needed.

Students requesting academic accommodations should use the following procedure:

1. **Step 1:** Obtain documentation of your disability from a licensed professional. You may contact DSPS to request a Disability Verification Form.
2. **Step 2:** Make an appointment to meet with a DSPS Specialist to review your documentation and discuss reasonable accommodations.

To schedule a meeting, please call DSPS at (818)364-7732.

3. **Step 3:** Bring your disability documentation to your DSPS appointment. The DSPS office is located in room 1018 of the Instructional Building.
4. **Step 4:** Each semester, reach written accommodation agreement with the DSPS Specialist and your instructor.
5. To be most effective, students should complete this process by the end of the 3rd week of the semester. Tests with required accommodations must be taken at the DSPS office

Emergency Procedure:

*If a campus emergency that poses risk to students occurs, please be prepared to immediately follow the instructions of your Instructor.

*Do not exit the classroom until instructed to do so.

*If building evacuation is required, you will be asked to leave all of your non-essential personal belongings in the classroom.

*Quickly, yet orderly and safely, exit the classroom and the building, preferably through main entrance.

*Proceed to the **Quad**.

*As the last person to exit, I will lock the classroom door behind me and meet you at the **Quad** in order to account for your presence and safety.

Recording devices in classroom

Section 78907 of the California Education Code prohibits the use of any electronic audio or video recording devices, without prior consent of the instructor (including cell phones, laptops, MP3 players, and more)

Important Dates to Remember

Accurate/current information are found at

<http://www.lamission.edu/students/calendar.aspx>

Instructor Information

Contact Information

NAME: Milan Samplewala

EMAIL: samplem@lamission.edu

PHONE: (818) 833-3385

OFFICE: INST 18

Office Hours

My website: <http://lamission.edu/~samplem> lists my office hours. For office hours by appointment, contact me by email or phone.

Turnaround/Feedback

I respond to emails and private messages within **24 hours**, during the hours of **12:00 am to 9:00 pm**, Monday through Thursday.

Canvas E-mail vs. Discussion

Please use Canvas **Inbox** to send me an email. Use Canvas Inbox even for 'private' questions like inquiries about your grade. This will keep all our course related correspondence together.

For all other queries, first check the Canvas **Discussions** to see if the answer to your question already exists. If not, put up your question in discussion. Allow other students to respond and see if they can provide the answers, you are looking for. I shall be closely monitoring the questions and responses for accuracy.

Note

Do not use comments in assignments to correspond with me. Send me an email using **Inbox**. Do not comment on announcements to get my attention. Send me an email using **Inbox**.

Other

Online classes are very different from traditional face-to-face classes. To help you be successful in your online course, LAMC has made some resources available to you. These

resources can be found at [Mission Online](#) and include guides to help you log on to your course. Here is also a direct link to [LAMC E-Counseling](#) and [Online Education Initiative Tutorials](#). Through these links; you will find many interactive tutorials and tools. I hope you will find these to be useful throughout the semester.

Course Policies

Grade Conversion

The final grades calculated from the percentages earned in the course, as follows:

Grade	Percentage	Credit
A	90-100%	4.0
B	80-89%	3.0
C	70-79%	2.0
D	60-69%	1.0
F	<60%	0.0

Attendance

If the student is inactive for more than a week (if 8 week session) or two weeks (if 16 week session), the instructor may exclude the student from the class. *Inactive means not attending the class if it is a hybrid or traditional course. For online class, it means you have not submitted assignments due that week.* For materials covered in the class, refer to the schedule on Canvas. Lectures notes may be available in Canvas, check their first. Otherwise, it is a student's responsibility to get missing class notes from other classmates.

Incomplete Policy

A student who has successfully completed more than 80% of the entire semester course work at end of semester and has communicated with the instructor with a justifiable explanation may be considered for an incomplete grade.

Reminder

If you stop attending a class (or wish to drop a class), please drop the class yourself - on or before **October 6, 2019**. Drop classes with a "W", before **October 6**. Failure to drop the class in a timely manner will result in letter grade of (A, B, C, D or F).

Academic Integrity

Plagiarism

All students must comply with the policies that regulate all forms of academic dishonesty, or academic misconduct, including plagiarism, self-plagiarism, fabrication, deception, cheating, and sabotage.

Student Conduct

Please make yourself familiar with [http://www.lamission.edu/aso/docs/STANDARDS OF STUDENT CONDUCT.pdf](http://www.lamission.edu/aso/docs/STANDARDS_OF_STUDENT_CONDUCT.pdf) document.
