

Los Angeles Mission College

CS 101 Introduction to Computer Science

Describes computer development, use of the computer by business management, the use of major workplace applications programs, operating systems, and programming. Students will analyze, design and implement technology solutions for organizations.

Fall 2024 Section# 15675, 15676 ONLINE

Start Date: August 26, 2024

End Date: December 15, 2024

Instructor: Javier Rios E-mail: riosj2@lamission.edu

Office Hours and Zoom Link

Office Hours

Mon, Tues, Wed, and Thurs 5:00 PM - 6:30 PM (Online via Zoom)

Join Zoom Meeting [Zoom Room](#)

E-mail communications will receive a response within 24 to 48 hours.

Advisory: N/A

Course Materials

For this course we are using the electronic book and course materials only (Cengage Unlimited Subscription).

A paper copy of the book will not work.

Textbook: New Perspectives Collection, Microsoft® 365® & Office® 2021

Cengage, 1st Edition, 2023

Cengage Unlimited Access Plan from Cengage.com

[Cengage Website](#)

Or

[Eagle's Landing Student Store](#)

Or

Simply click on an assignment and you will be directed to the correct Cengage Unlimited access plan. Most students purchase a 4-month access plan for \$129.99

Course Topics Discussed in Class:

- History of the development of the computer, Importance of computer literacy in society, Definition of an information system, Types of computers, Overview of computer hardware and software, Secondary storage and storage devices, how data is stored, Access time, Data security, Enterprise storage systems, and Cloud storage.
- Application software Systems software, Business/workplace software, Home/personal/educational software, Communications software, and Utility programs.
- Systems software and operating systems, Resource management, Monitoring activities, Utilities - virus/spyware/defrag, Systems unit and processor types, four steps of the machine cycle, Use of memory, Binary code, Factors affecting the speed of the processor, Input and the four basic types of input devices, output devices Hardcopy vs softcopy output, reports, Graphics, audio and video.
- Data communications, basics Channels and transmission media, Types of Transmission, Network architecture, Communication devices, Protocols, Database management, Data elements, Types of databases, Advantages of database systems, Information system development life cycle, Program development, and Program analysis.
- Information system development life cycle, Program development, Program analysis, Design tools for programs, Flowcharts, HIPO charts, Pseudocode, UML diagrams, Languages, and Creating a program.
- Procedural programming vs OOP, Introduction to an IDE, project, solution, and OOP. Vocabulary: object, properties/attributes, events, methods, Form Modules, design view, and code view.
- Objects, Events, Methods, Procedure templates, Default events, Using IntelliSense effectively, assigning values to methods, and Assigning values to properties.
- Toolbox control objects; buttons, text boxes, labels, list boxes, changing object properties and methods at both design-time and at run-time, getting data from the user and storing it in appropriate memory locations, Memory storage, basic data types (whole numbers;

floating point, text, and Boolean); variables and assigning values to variables, and basic arithmetic operators.

- Decision/Selection structures, relational operators, logical operators, conditional statements; If, If/else, and switch statements, nested decision structures; Repetition structures, pre-test loops, post-test loop, iterative loops Counters, scope (visibility and lifetime), global variables, and static variables.

Course Schedule

Course Schedule		
Week	Topic	Exercises
Week 1 - August 26	<ul style="list-style-type: none"> • Impact of Digital Technology • Microsoft Windows 11 	<ul style="list-style-type: none"> • Discussion • Module 1 Training • Module 1 Exam • Concept Videos
Week 2 - September 2	<ul style="list-style-type: none"> • The Web • Microsoft Windows 11 	<ul style="list-style-type: none"> • Discussion • Module 2 Training • Module 2 Exam • Concept Videos
Week 3 - September 9	<ul style="list-style-type: none"> • Computer Hardware • Microsoft Word 	<ul style="list-style-type: none"> • Discussion • Module 3 Training • Module 3 Exam • Concept Videos
Week 4 - September 16	<ul style="list-style-type: none"> • Operating Systems and File Management • Microsoft Word 	<ul style="list-style-type: none"> • Discussion • Module 4 Training • Module 4 Exam • Concept Videos
Week 5 - September 23	<ul style="list-style-type: none"> • Software and Apps • Microsoft Excel 	<ul style="list-style-type: none"> • Discussion • Module 5 Training • Module 5 Exam • Concept Videos
Week 6 - September 30	<ul style="list-style-type: none"> • Security and Safety • Microsoft Excel 	<ul style="list-style-type: none"> • Discussion • Module 6 Training • Module 6 Exam • Concept Videos
Week 7 - October 7	<ul style="list-style-type: none"> • Digital Media 	<ul style="list-style-type: none"> • Discussion • Module 7 Training

Course Schedule		
Week	Topic	Exercises
	<ul style="list-style-type: none"> • Microsoft PowerPoint 	<ul style="list-style-type: none"> • Module 7 Exam • Concept Videos
Week 8 - October 14	<ul style="list-style-type: none"> • Program and App Use and Development • Microsoft PowerPoint • Mid-Term 	<ul style="list-style-type: none"> • Discussion • Module 8 Training • Module 8 Exam • Concept Videos • Mid-Term
Week 9 - October 21	<ul style="list-style-type: none"> • Web Development • Microsoft Access 	<ul style="list-style-type: none"> • Discussion • Module 9 Training • Module 9 Exam • Concept Videos
Week 10 - October 28	<ul style="list-style-type: none"> • Networking • Microsoft Access 	<ul style="list-style-type: none"> • Discussion • Module 10 Training • Module 10 Exam • Concept Videos
Week 11 - November 4	<ul style="list-style-type: none"> • Digital Communication • Python 	<ul style="list-style-type: none"> • Discussion • Module 11 Training • Module 11 Exam • Concept Videos
Week 12 - November 11	<ul style="list-style-type: none"> • Digital Transformation: Cloud, E-Commerce, and AI • Python 	<ul style="list-style-type: none"> • Discussion • Module 12 Training • Module 12 Exam • Concept Videos
Week 13 - November 18	<ul style="list-style-type: none"> • Databases • Python 	<ul style="list-style-type: none"> • Discussion • Module 13 Training • Module 13 Exam • Concept Videos
Week 14 - November 25	<ul style="list-style-type: none"> • Digital Ethics and Lifestyle • Python 	<ul style="list-style-type: none"> • Discussion • Module 14 Training • Module 14 Exam • Concept Videos
Week 15 - December 2	<ul style="list-style-type: none"> • Python 	<ul style="list-style-type: none"> • Discussion

Course Schedule		
Week	Topic	Exercises
		<ul style="list-style-type: none"> • Interactive Summary Unit 11 • Interactive Situation Quiz Unit 11
Week 16 - December 9	<ul style="list-style-type: none"> • Python • Final Exam 	<ul style="list-style-type: none"> • Discussion • Practice Quiz Unit 11 • SAM Exam Concepts Unit 11 • Test Unit 11 • Final Exam

Exam Schedule	
Date	Subject
Week 8 - October 14	Mid-term Weeks 1 - 7
Week 16 - December 9	Final Exam - All course materials

Assignments and Grading Policies

Assignments are graded by the end of each week. The expectation is that the class starts on time, the assignments and modules are available on time, the assignments are turned in on time and they are graded on time.

- **NO EXTRA-CREDIT ASSIGNMENTS**
- **TESTS/EXAMS** are all cumulative. They may include multiple choice, matching, short answer, and timeline questions. Tests/Exams may be taken only once (1).
- No make-up exams will be given. Don't bother asking; the answer is no.
- **Quizzes:** may be retaken as many times as needed to achieve a higher score.
- **Class conduct:** This includes your participation in class discussions and your professional/collegial behavior online.
- **Attendance** online is expected and is vital to your grade. Students will log in at the beginning of each week (Monday) and plan according to the amount of work assigned.

Assignments are weighted by group:

Group	Weight
Assignments	15%
Projects and Concept Videos	15%
Cengage Exams	20%
Discussions	20%
Mid-Term and Final Exam	30%
Total	100%

Important Dates

Important Dates

DEADLINES:	HOLIDAYS:
Last date to enroll with a permission number: 09/04/2024	September 2 Labor Day - Campus Closed (Monday)
Last date to drop this class without a "W": 09/04/2024	November 11 - Veterans Day - Campus Closed (Monday)
Last date to drop with a "W": 10/06/2024	November 28, 29 - Thanksgiving - Campus Closed
Last date to drop with a refund/no fee owed: 08/30/2024	

Missed or Late Work

Late submissions will not be accepted. It is the responsibility of students to meet all assignment deadlines. Exceptions will be made only for documented medical emergencies or other unforeseen and extenuating circumstances, with prior approval from the instructor.

1. **Medical Emergency:** Hospitalization or serious illness supported by medical documentation.
2. **Family Emergency:** Death or critical illness of an immediate family member.
3. **Technical Issues:** Sudden and unforeseen computer or internet failures during a critical assignment period.
4. **Natural Disaster:** Disruption due to a natural disaster, such as a hurricane, earthquake, or wildfire.
5. **University-Sanctioned Events:** Participation in university-sanctioned events with prior approval (e.g., academic conferences, athletic competitions).

Remember, students should provide appropriate documentation to support their claims of extenuating circumstances when requesting exceptions to late work policies.

Participation

As your professor for this online course, I have certain expectations regarding your online presence and participation:

1. **Weekly Login Requirement:** It is expected that you log in to the course platform at least once every week.
2. **Recommended Weekly Routine:** I strongly advise you to log in early in the week to assess your workload for the upcoming week.
3. **Navigating the Week:** Begin by reviewing the week's start page and the designated discussion topic.
4. **Reading Assignments:** Take note of the assigned readings to plan your study schedule accordingly.
5. **Participation Expectation:** You should actively engage in class discussions, ensuring you contribute a minimum of two (2) meaningful posts per week. Please post your initial contribution no later than Wednesday each week.

Consistent engagement and timely participation are essential for your success in this online course.

Regular and Effective Contact

This is an online course, and all our interactions will occur on Canvas. Please expect frequent communication and feedback from me via private messages, announcements, assignment feedback, and discussion forums.

I typically return grades within 7 days of assessment completion, in the form of qualitative and quantitative feedback. I usually reply to messages on the Pronto App the same day they are received, but please give me up to 48 hours to respond.

Ultimately, we will regularly and substantively interact with each other many times each week, throughout the term. Your role will be to check your grades, messages, announcements, and interact with me and your peers in the discussions.

Student Services at LAMC

Email: lmcstudentsupport@lacc.edu

Phone: [\(818\) 364-7700](tel:(818)364-7700)

At Los Angeles Mission College, we do everything we can to help our students succeed. That's why we provide a supportive learning environment that includes [Financial Aid](#), [Counseling](#), [Disabled Student Programs and Services \(DSPS\)](#), [Veterans Resources](#), and [Health Services](#).

Associated Student Organization: Get involved in student government! Represent the student voice in campus government and organize clubs and events.

CalWORKS: If you qualify for CalWORKs, you can get money for books/supplies and an array of support services to help you achieve self-sufficiency.

Campus Sheriff: In the event of an emergency, you should call the campus sheriff; please put the number in your phone now: 818 364-7843

Counseling: Do you know what classes you need to reach your educational goals? Create a roadmap to success with an academic counselor!

Disabled Students Programs & Services: DSPS is committed to developing strategies that provide equal opportunity and promote academic success for students with disabilities.

EOP&S: We help economically and educationally underrepresented students to achieve their educational goal(s). If you qualify, you'll receive benefits such as academic counseling, Student Educational plans, priority registration, transfer assistance, tutoring, cash & book grants, meal vouchers, and assistance with technology.

Financial Aid & Scholarships Office: Find out if you qualify for financial aid (including federal and state grants, loans, work-study jobs, and scholarships) by talking to one of our financial aid specialists.

Foster and Kinship Care/Guardian Scholars Programs: If you're a foster youth, or a foster/resource parent, we can help you—in English or Spanish—with training and advocacy for parents and support services for former/current foster youth students.

Honors Program: Want to increase your chances of acceptance into a University? Take an Honors class!

Learning Resource Center: Visit the LRC to get tutoring (both individual and group), topic-specific workshops, and review sessions -- all free of charge!

Library: Gain access to a wide range of information resources -- books, eBooks, magazines, journals, and newspaper articles from LA Mission College.

Program Mapper: Access the online system that helps you decide on a major, determine exactly what classes you need for the degree or certificate you desire, plan out your schedule, and more!

Pathway Coaches: A Pathway Coach supports students throughout their college experience from beginning to end, helping them with enrollment, financial aid, counseling, tutoring, and basic needs.

See the Pathway Coaches section here:

Student Portal: Update your email address, view your schedule and grades from past semesters through the portal. Go to – “students” – “My Mission student portal access” if you have not yet changed your pin it’s your birthdate (MMDD)

Los Angeles Mission College Race, Equity, and Inclusion Statement of Affirmation

We – the Los Angeles Mission College Faculty, Classified Professional Staff, and Administration – are unified in our commitment to end institutional discrimination and racism. We pledge to address the inherent racism that is rooted in our society’s major institutions, including our very own educational system. Further, we promise to examine our personal role in creating an anti-racist academic environment, and we ask others to join us in our mission to dismantle the systemic barriers which create additional challenges for our students based on:

- race/ethnicity
- gender identity and expression
- sexuality
- national origin
- socioeconomic status
- ability or differing abilities
- language
- religion or belief system
- age
- physical appearance
- intersections of these identities

We acknowledge our presence on the traditional, ancestral, and unceded territory of native tribes and recognize the Tataviam people as the traditional land caretakers of Tovaangar (San Fernando Valley, Los Angeles Basin, and South Channel Islands).

We are committed to closing all existing equity gaps and strive to achieve equality for the success of all students.

We affirm the importance of diversity and will dedicate our efforts to creating an inclusive and supportive environment for all members of our community.

We strive to ensure respectful dialogue at all times as well as language that is responsible and sensitive to the opinions of others, in and outside the classroom.

We recognize our purpose as facilitators in helping students achieve their goals and will support and empower them on their academic paths. We respect academic freedom and promote a

community that provides opportunities for collaboration and enrichment so that all voices and ideas can be heard, respected, and supported.

I look forward to having a great time on this course as we work together to learn and share new ideas. Please do not hesitate to reach out to me at any time during the course.