The Curriculum

This curriculum includes the roadmap to completing the Associate in Science in Computer Science for Transfer Degree (AS-T). Consult with a Los Medanos College counselor to develop your education plan including appropriate GE coursework.

YEAR 1

Fall Semester (16 units)
- COMSC 122 Programming Concepts & Methodologies I (3 units)
- MATH 050 Calculus and Analytic Geometry I (4 units)
- IGETC GE (9 units)

Spring Semester (15 units)
- COMSC 132 Programming Concepts & Methodologies II (3 units)
- MATH 060 Calculus and Analytic Geometry II (4 units)
- PHYS 040 Physics for Scientists and Engineers I (4 units)
- IGETC GE (4 units)

YEAR 2

Fall Semester (17 units)
- COMSC 142 Computer Architecture and Organization (3 units)
- MATH 070* Calculus and Analytic Geometry III (4 units)
- PHYS 041 Physics for Scientists and Engineers II (4 units)
- IGETC GE (6 units)

Spring Semester (16 units)
- MATH 160 Discrete Math (4 units)
- IGETC GE (12 units)

TOTAL UNITS FOR THIS DEGREE: 60

Note: To complete this degree at Los Medanos College with no more than 60 units, students must follow IGETC General Education Requirements. Students will not be able to complete the degree within 60 units following the CSU General Education Breadth Requirements. Therefore, students are highly encouraged to consult with their counselor when choosing general education classes.

Total Major Requirement: 29 units
Total Additional Requirement: 4 units
Total IGETC-GE Requirement: 31 units
Total Unit Requirement: 60 units

* MATH 070 is a prerequisite/co-requisite for PHYS 041, therefore it does not count towards the 60 unit total.

Careers in Computer Science:
Do you think it would be cool to design the technologies that make devices work better? To invent new ones? To help make people’s lives and jobs easier? Then maybe computer science is the right path for you! Computer scientists use technology to solve problems. They write software to make computers do new things or accomplish tasks more efficiently. They create applications for mobile devices, develop websites, and program software.

One of the biggest things computer science majors learn is how to logically think through a problem and find a way to solve it. Computer scientists also understand teamwork and are good communicators. They work with other people all the time, including those who don’t come from a computer science background. Some students go into computer science because they like working with computers. Others want to solve problems with technology. Whatever your passion, a computer science degree is a great foundation for all kinds of jobs.


National Annual Salary Averages for Computer Science Careers
- Computer Systems Analyst: $81,190
- Software Developer, Systems Software: $101,410
- Computer and Information Systems Manager: $123,950
- Computer Network Architect: $95,380
- Software Quality Assurance Engineer and Tester: $82,340
- Video Game Designer: $82,340
- Bioinformatics Scientist: $72,720

Associate in Science in Computer Science for Transfer Degree

The Associate in Science in Computer Science for Transfer Degree is designed for students desiring advanced degrees in computer science. The Los Medanos College (LMC) computer science courses meet the lower division transfer requirements for computer science and prepare students to transfer and study at a California State University (CSU). A baccalaureate degree is the recommended preparation for those considering professional careers in computer science.

To achieve the Associate in Science in Computer Science for Transfer Degree, students must complete 60 semester units noted in the left column that are eligible for transfer to the CSU system; fulfill the Intersegmental General Education Transfer Curriculum (IGETC) or the CSU General Education – Breadth Requirements; complete a minimum of 29 semester units in computer science major (see left column), obtain a minimum grade point average of 2.0, earn a “C” grade or better in all courses required for the computer science major. A “P” (Pass) grade is not acceptable grade for courses in the major.

www.losmedanos.edu
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Where can I transfer if I major in computer science?
Los Medanos College computer science students have successfully transferred to UC Davis, Cal State East Bay, San Jose State, San Francisco State, and many other university and colleges.

What resources are available to help STEM transfer students succeed?
The MESA (Math, Engineering, and Science Achievement) Center offers tutoring and support in all STEM fields. Students are encouraged to join MESA, a national program for first generation college students interested in STEM fields of study. We have a STEM counselor who helps students develop an education plan for transfer. Math labs are available at the Pittsburg and Brentwood campuses. In addition, students can receive help from STEM faculty during office hours and from tutors in the Center for Academic Support.

Does LMC offer TAGs and TAAAs?
Yes, we offer both. A TAG is a Transfer Admission Guarantee offered by 6 UC campuses. The program guarantees transfer admission to students who apply and meet specified criteria. A TAA is a Transfer Admission Agreement. In addition to UC campuses, LMC has TAAs with several California private schools, and some out-of-state colleges such as HBCUs (Historically Black Colleges & Universities). For more information, visit: www.losmedanos.edu/transfer/colleges.asp

Do I need to complete the AS-T degree in Computer Science before I can apply for transfer to a university or college?
You do not need to complete the AS-T in Computer Science in order to transfer to a college or university, but it may be highly desirable. It is important to check with the LMC STEM Counselor for transfer information.

Want to know more?
Visit www.losmedanos.edu/computerscience. We also recommend that you make an appointment to meet with our LMC STEM Counselor for personalized planning.

Want to become an LMC student?
Visit www.losmedanos.edu/registration to apply and more.

Prabhjot (Prince) Singh
Computer Science student

Studying computer science at LMC feels natural to me. It has prepared me to tackle all sorts of real life scenarios, thanks to the faculty, staff, and all the equipment provided. The curriculum is constantly updated in order to stay up to date with current technology. Having studied many computer science classes including computer programming, game design, and hardware, I don’t think I have missed out on anything.

While at LMC, I’ve become a STEM Scholar, an Honors Scholar, a tutor for both the Math and MESA labs, involved with Alpha Gamma Sigma (AGS), and even started my own calculus club (C.A.L.C.). My plan is to transfer and ultimately to become a software engineer working with a space agency such as NASA or SpaceX. Thanks to the vast experiences and lessons shared by my wise teachers, I am already confident enough to work at a professional setting.