



**COURSES  
AVAILABLE  
ONLINE OR  
ON CAMPUS**

**BACHELOR OF SCIENCE  
COMPUTER SCIENCE**



**START WITH LONE STAR COLLEGE. FINISH AT LAMAR UNIVERSITY!**

**Your Future**

Computer Science involves every aspect of the human endeavor, from common technologies like mobile phones, artificial intelligence, medical imaging, cybersecurity, software engineering, networks and distributed systems, real-embedded systems, 3D printing, and game development. Our department encompasses a broad-based program that emphasizes the areas of computer programming languages, data structures, information systems, software engineering, applications of computer science and computer architecture.

Our industry-driven approach to computer game development focuses on a mixed skill set, including: programming, art and design. Many developers look for candidates with one of these while the best developers are capable of all three. With this diverse skill set, our graduates are prepared for advanced roles within the industry.

**Career Opportunities**

- Computer Systems Analyst
- Database Administrator
- Software Developer
- Web Developer
- Computer Programmer
- IT Manager
- Network Security Analyst
- Software Engineer
- Software Architect

**LU SCHOLARSHIPS**

AMOUNT/YEAR	TRANSFERABLE GPA	RENEWABLE?
<b>TRANSFER ACADEMIC EXCELLENCE SCHOLARSHIP*</b>		
<b>\$2,000</b>	3.5-4.0	YES
<b>\$1,500</b>	3.0-3.49	YES
<b>PHI THETA KAPPA (PTK) SCHOLARSHIP</b>		
<b>\$1,000</b>	3.0-3.49	YES

*\*Based on availability and for full-time students who have earned more than 30. but less than 90 transfer credits and enrolled in on-campus programs*

**TO APPLY FOR SCHOLARSHIPS**

- Complete your admissions application
- Visit [lamar.edu/myscholarships](http://lamar.edu/myscholarships)
- Complete the General Application

**PRIORITY DEADLINES**

Fall – July 1  
Spring – December 1

## A.S. COMPUTER SCIENCE

### FALL SEMESTER

EDUC 1300 (1) or US HIST 1302 - Learning Framework:  
1st Year Exp. or History II

COSC 1436 - Programming Fundamentals I  
ENGL 1301 - Composition & Rhetoric I  
MATH 2413 - Calculus I  
PHED 1164 - Intro to Phys Fitness & Wellness

### SPRING SEMESTER

COSC 1437 - Programming Fundamentals II  
MATH 2414 - Calculus II  
CHEM 1411 - General Chemistry I  
ENGL 1302 - Composition & Rhetoric II

### SUMMER AT LSC

SPCH 1315 or SPCH 1321 - Public Speaking or Business &  
Professional Speech  
HIST 1310 - US History I

### FALL SEMESTER

COSC 2436 - Programming Fundamentals III  
MATH 2305 - Discrete Mathematics  
PHYS 2425 - University Physics I  
GOVT 2305 - Federal Government

### SPRING SEMESTER

COSC 2325 - Computer Organization  
PHYS 2426 - University Physics II  
MATH 2318 - Linear Algebra  
Lang/Phil/Culture

### SUMMER AT LSC

GOVT 2306 - Texas Government

## B.S. COMPUTER SCIENCE

### FALL SEMESTER

MATH 2415 or 3322 - Calculus & Analytic Geomentry III or  
Intro to Advanced Mathematics

COSC 1172 - Think, Speak, Write  
COSC 1173 - Programming Laboratory  
COSC 2375 - Discrete Structures  
COSC 3302 - Intro to Computer Theory  
Creative Arts - Choose from LSC Core Curriculum

### SPRING SEMESTER

COSC 3304 - Analysis and Design Algorithms  
MATH 3370 - Intro to the Theory of Statistical  
Interference  
COSC 3308 - Design Programming Languages  
COSC 1174 - Fundamentals of Computing Laboratory  
Social/Bhv. Science - Choose from LSC Core Curriculum

### FALL SEMESTER

COSC 4310 - Intro to Computer Architecture  
COSC 4302 - Operating Systems  
Elective (2) - COSC/CPSC/ELEN Elective - see below  
Elective (3) - COSC/CPSC/ Elective - see below

### SPRING SEMESTER

COSC 4272 - Senior Assessment  
CPSC 4360 - Software Engineering  
CPSC 4340 - Database Design  
Elective (2) - COSC/CPSC/ELEN Elective - see below  
Elective (3) - COSC/CPSC/ Elective - see below

## NOTES AND COMMENTS:

- (1) EDUC 1300 is required for First Time in College (FTIC) students. If not FTIC, student will complete HIST 1302. All students must complete HIST 1302 to earn AS.
- (2) COSC/CPSC/ELEN options (complete 6 credit hours): COSC 4301, 4307, 4309, 4319, 4322, 4324, 4345; CSPC 3316, 4315, 4316, 4320, 4328, 4330, 4370; ELEN 3381, 4486, 4387, 4304.
- (3) COSC/CPSC options (complete 6 credit hours): COSC 4301, 4307, 4309, 4319, 4322, 4324, 4345; CSPC 3316, 4315, 4316, 4320, 4328, 4330, 4370.



**I'm ready to apply.  
What's next?**

**You've made a great choice!  
Follow the steps below to becoming a Cardinal.**

## HOW TO APPLY

### REQUIRED STEPS

- 1. Finish your degree at Lone Star College**
- 2. Complete your application and transfer to Lamar University through ApplyTexas.org**



OFFICE OF ADMISSIONS & RECRUITMENT  
**LAMAR UNIVERSITY**



/lamaruadmissions  
@lamaruadmissions

**PLAN A VISIT TO CAMPUS** (409) 880-8316

**plan or take a virtual tour at [lamar.edu/visit](http://lamar.edu/visit)**