Computer Science

Explore Catalog Search Courses

Computer science involves the study of computers and computer programming. Computer scientists develop new computer technologies as part of the tech sector, but also apply cutting-edge computer technology to solve problems in virtually every other industry, such as healthcare, energy, education, and financial services, to name a few.

The computer science field of study at Lee College is designed to lay a foundation that will allow a student to transfer to a four-year university and continue their studies toward a bachelor's degree in computer science.

What Will I Learn?

This program of study prepares students to design, develop, document, test, and analyze simple computer programs using leading programming languages, such as Python, C++, or Java.

What Can I Do with This Course of Study?

Computer Science degrees can lead to a variety of different careers in fields such as:

- Computer and information research scientists
- Computer programmers
- Computer systems analysts
- Database administrators

- Information security analysts
- Software developers

Degrees and Certificates

Associate of Science

Students will be prepared by this program to transfer into a bachelor's degree program in computer science or software engineering.

Computer Science UHCL Transfer Plan

Please note that MATH 1314 & MATH 2412 are pre-requisites for MATH 2413. The remainder of the plan includes course options for transferring into the COMPUTER SCIENCE BS program at the University of Houston-Clear Lake. The plan includes more than the 60 hours required for an Associate of Science and allows students to complete additional bachelor's degree requirements prior to transfer.

Foundations: These are the courses students need in order to progress in their career/college pathway, as they either provide a certificate or lay the groundwork for moving to the next set of courses.

Lee College		UHCL
Course	**Course Title**	**Counts Toward**
EDUC 1200	Learning Frameworks	PSYC 1100
ENGL 1301	English Composition 1	WRIT 1301
MATH 2413	Calculus 1	MATH 2413
COSC 1436	Programming Fundamentals 1; Lecture and lab	CSCI 1470
CHEM 1411	General Chemistry 1; Lecture and lab	CHEM 1111/ 1311
ARTS 1303 or 04	Art History 1 OR Art History 2	ARTS 1303 or 1304

Knowledge Building: These courses further the students' knowledge in the area of study and increase their preparation for the degree completion.

Lee College		UHCL
Course	**Course Title**	**Counts Toward**
ENGL 1302	English Composition 2	WRIT 1302
MATH 2414	Calculus 2	MATH 2414
COSC 1437	Programming Fundamentals 2; Lecture and lab	CSCI 1471
PHYS 2425	University Physics 1; Lecture and lab	PHYS 2125/2325
GOVT 2305	Federal Government	POLS 2305
HIST 1301	History of the United States to 1877	HIST 1301

PSYC 2301 or SOCI 1301 Introduction to Psychology PSYC 2301 or SOCI 1301
or Introductory Sociology

**Completion: These are the courses the student needs in order
to complete the degree plan and prepare to enter the workforce.**

Lee College		UHCL
Course	**Course Title**	**Counts Toward**
MATH 2318	Linear Algebra	MATH 2318
COSC 2325	Computer Organization	CSCI 2331
HIST 1302	History of the United States since 1877	HIST 1302
GOVT 2306	Texas Government	POLS 2306
SPCH 1315	Principles of Public Speaking	COMM 1315
HUMA 1301	Introduction to Humanities	HUMN 1301
PHYS 2426	University Physics 2; Lecture and lab	PHYS 2126/2326

 CAREERS IN
COMPUTER SCIENCE
My Next Move

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Contact Info

James Camp
Math, Engineering & Sciences Department/ FT Faculty - Biology
jcamp@lee.edu
281.425.6226

Curtis White
Division Chair, Math, Engineering & Sciences / FT Faculty - Mathematics
cwhite@lee.edu
281.425.6254

Contact an advisor/counselor