

Computer Science and Engineering - Undergraduate

Programs

BACCALAUREATE DEGREES

- [Computer Engineering BS](https://catalog.uta.edu/engineering/computer/undergraduate/computer-engineering-bs/) (<https://catalog.uta.edu/engineering/computer/undergraduate/computer-engineering-bs/>)
- [Computer Science BS](https://catalog.uta.edu/engineering/computer/undergraduate/computer-science-bs/) (<https://catalog.uta.edu/engineering/computer/undergraduate/computer-science-bs/>)
- [Software Engineering BS](https://catalog.uta.edu/engineering/computer/undergraduate/software-engineering-bs/) (<https://catalog.uta.edu/engineering/computer/undergraduate/software-engineering-bs/>)

CERTIFICATES

- [Artificial Intelligence Certificate](https://catalog.uta.edu/engineering/computer/undergraduate/artificial-intelligence-cert/) (<https://catalog.uta.edu/engineering/computer/undergraduate/artificial-intelligence-cert/>)
- [Cybersecurity Certificate](https://catalog.uta.edu/engineering/computer/undergraduate/cybersecurity-minor/) (<https://catalog.uta.edu/engineering/computer/undergraduate/cybersecurity-minor/>)
- [Embedded Systems Certificate](https://catalog.uta.edu/engineering/computer/undergraduate/embedded-systems-cse-cert/) (<https://catalog.uta.edu/engineering/computer/undergraduate/embedded-systems-cse-cert/>)
- [Unmanned Vehicle Systems Certificate \(Computer Engineering\)](https://catalog.uta.edu/engineering/computer/undergraduate/unmanned-vehicle-systems-comp-engr-cert/) (<https://catalog.uta.edu/engineering/computer/undergraduate/unmanned-vehicle-systems-comp-engr-cert/>)
- [Unmanned Vehicle Systems Certificate \(Computer Science\)](https://catalog.uta.edu/engineering/computer/undergraduate/unmanned-vehicle-systems-comp-sci-cert/) (<https://catalog.uta.edu/engineering/computer/undergraduate/unmanned-vehicle-systems-comp-sci-cert/>)

MINOR

- [Computer Science Minor](https://catalog.uta.edu/engineering/computer/undergraduate/computer-science-minor/) (<https://catalog.uta.edu/engineering/computer/undergraduate/computer-science-minor/>)

Computer Science And Engineering Undergraduate Policies

In addition to [College of Engineering Undergraduate Policies](https://catalog.uta.edu/engineering/#policies) (<https://catalog.uta.edu/engineering/#policies>), the following specific policies apply to Computer Science and Engineering Policies students.

PRIOR PREPARATION

The BSCS, BSCpE, and BSSE are four-year programs and requirements for the degrees are based upon prior high school preparation through either an honors or college track. More specifically, entering students are expected to have a background in mathematics through precalculus, high school chemistry, and programming in a high-level language such as C, C++, Java or Python.

Students who have not had the appropriate preparation should contact the departmental advising office for assistance in structuring a degree plan that will include leveling courses. Students requiring leveling courses may require a longer period of time to complete their undergraduate program.

READINESS EXAMINATIONS

Students that have prior programming experience without having course credit for a programming course will have the option to take readiness examinations before enrolling in CSE courses at UTA. Students not passing the readiness examination must take these courses at UTA. A readiness examination may be taken only once per course and only before enrolling in any CSE courses. Additional information is available in the departmental office.

CSE 1310	INTRODUCTION TO COMPUTERS & PROGRAMMING	3
CSE 1320	INTERMEDIATE PROGRAMMING	3
CSE 1325	OBJECT-ORIENTED PROGRAMMING	3

TRANSFER STUDENTS AND TRANSFER CREDIT

After admission and prior to registration, transfer students should contact the Department of Computer Science and Engineering for advising. At the time of advising, a transfer student must present to the undergraduate advisor an official transcript (or copy) from each school previously attended. Only the equivalent courses in a program accredited by ABET or equivalent freshman, sophomore, or general education courses accepted by the department chairperson can be counted toward a degree in computer science and engineering.

COOPERATIVE EDUCATION PROGRAM

Cooperative education or Co-op programs are arrangements where students alternate periods of full-time employment with periods of full-time study, usually during the last two years of a degree program. The employment is directly related to the student's major and pays an attractive salary. Thus, Co-op students gain valuable career related experience before graduating, while earning a meaningful income. Cooperative education opportunities are plentiful for CS, CpE, and SE students.

HONORS PROGRAMS

The Computer Science and Engineering Department encourages qualified CS, CpE, and SE majors to participate in the Honors College described elsewhere in this catalog. Projects may be pursued in any one of the areas of concentration within the Department of Computer Science and Engineering.

GRADUATE DEGREE PATHS

Computing is a rapidly changing discipline requiring lifelong learning by its professionals. Completing a graduate degree enhances an individual's ability to assimilate and apply their knowledge and skills to meet on the job challenges and the needs of society. Pursuing a graduate degree on a full-time basis immediately after completing the baccalaureate is an attractive option for many students. Students are encouraged to discuss possibilities with a Graduate Advisor upon advancement to a Bachelor of Science professional program.

ORAL COMMUNICATION AND COMPUTER COMPETENCY REQUIREMENT

CS, CpE, and SE students will satisfy the oral competency requirement by completing COMS 2302 PROFESSIONAL AND TECHNICAL COMMUNICATION FOR SCIENCE AND ENGINEERING. They will satisfy the computer use competency requirement by completing CSE 1106.

COURSE OFFERINGS

All 1000- and 2000-level CSE courses are typically offered each semester as well as in the summer session. All 3000-level courses and required 4000-level courses are typically offered at least twice per year. Other 4000-level courses are typically offered only once per year unless there is a high demand. Ask a CSE advisor for more information on when classes are offered. The CSE department reserves the right to move students among equivalent sections of the same course.