

# COMPUTER SCIENCE UNDERGRADUATE MAJOR (BA, BS, HBA, HBS)

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The computer science (CS) undergraduate curriculum has the following Program Educational Objectives (PEOs) (see the ABET Accreditation for CS website).

1. Graduates of the program will have successful careers.
2. Graduates of the program will continue to learn and adapt to a changing world.
3. Graduates of the program will practice ethical and inclusive principles that foster collaborative environments.

Entering undergraduate students must choose and complete options 1 or 2 to earn a degree in CS. Entering post-baccalaureate students may select options 1 and 2 that are offered on campus or the online Computer Science Double Degree option offered by Ecampus.

1. Applied Computer Science (BA, BS, HBA, HBS) - on campus and via Ecampus
2. Computer Systems (BA, BS, HBA, HBS) - on campus only
3. Computer Science Double Degree (BS, HBS) - via Ecampus only

For students entering the undergraduate program, the recommended high school preparation is four years of mathematics, science, and English. High school programming or computer applications courses should not be taken in place of other college preparatory courses.

## Major Code: 307

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Apply computer science theory and software development fundamentals to produce computing-based solutions.

Each option has its own requirements. Please select a specific option for details.

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