



College of Engineering and Computer Science
Academic Learning Compacts

Computer Science - B.S.

Discipline Specific Knowledge, Skills, Behavior and Values

1. Graduates of the CS program will have the ability to: **analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.** *Assessment:* CDA 3103 and COP 4600. *Mapping:* ABET outcome #1
2. Graduates of the CS program will have the ability to: **design , Implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.** *Assessment:* COP 4600 and COP 4935. *Mapping:* ABET outcome #2
3. Graduates of the CS program will have the ability to: **communicate effectively in a variety of professional contexts.** *Assessment:* COP 4934 and COP 4935. *Mapping:* ABET outcome #3
4. Graduates of the CS program will have the ability to: **Recognize professional responsibilities and make informed judgements in computing practice based on legal and ethical principles .** *Assessment:* COP 4934 and COP 4935. *Mapping:* ABET outcome #4
5. Graduates of the CS program will have the ability to: **apply computer science theory and software development fundamentals to produce computing-based solutions.** *Assessment:* CDA 3103 and COP 3503C. *Mapping:* ABET outcome #6

Critical Thinking

1. Graduates of the CS program will have the ability to: **analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.** *Assessment:* CDA 3103 and COP 4600. *Mapping:* ABET outcome #1
2. Graduates of the CS program will have the ability to: **apply computer science theory and software development fundamentals to**

produce computing-based solutions. *Assessment:* CDA 3103 and COP 3503C. *Mapping:* ABET outcome #6

Communication

1. Graduates of the CS program will have the ability to: communicate effectively in a variety of professional contexts. *Assessment:* COP 4934 and COP 4935. *Mapping:* ABET outcome #3
2. Graduates of the CS program will have the ability to: **function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.** *Assessment:* COP 4934 and COP 4935. *Mapping:* ABET outcome #5

This outcome is aligned with the university's outcome for an educated citizenry: Produce an educated citizenry with oral and written communication skills.

Assessment of Computer Science - B.S. Outcomes

These outcomes will be assessed using a variety of assessment methods, including:

- Data are collected for the assessment through surveys (alumni, industry, graduating students), the computer science foundation exam, Industrial Affiliates Board, School of EECS Technical Area Committees, the Computer Science Curriculum Oversight and Review Committee, and course assessment reports.