

Amber Wagner

Assistant Professor of Applied CS

Limited Resources

- Two faculty
- 7 required courses in major
- 1 elective offered each term
- Adjunct for web design
- Electives from other majors:
Cognitive Psychology
Logic (Philosophy)
Matlab Programming (Physics)
Math courses
Digital Humanities

Accessibility/Inclusivity

- Recorded lectures with captioning
- Project-based, limited exams
- Lectures posted ahead of time
- Importance of design, accessibility modules integrated into courses
- Bias in software
- Current articles
- Who's Who in Computing

Interdisciplinary

- Teach topics through a lens
 - OS/Networking > cyber security
 - Comp Arch > IOT, Robotics
 - DB or Machine Learning
 - Jan Term Exploration

Applied Computer Science

Core Computer Science Courses for all majors

Specialization

Computer Engineering

MA 231:
Calculus I

MA 232:
Calculus II

MA 317:
Linear Algebra

CAC 320:Computer
Architecture

*CAC 420:
Computer
Engineering
Course

CAC 240:
Robotics Course

Physics I

Physics II

Software Engineering

MA 231:
Calculus I

MA 232:
Calculus II

MA 240:
Discrete Math

*CAC 440:
Software
Engineering

CAC 410: Systems
and CyberSecurity

CAC Elective

Physics I

Media Manipulation

2 MFS Courses

2 Art Courses

2 Theatre Courses

Applied CS Track

MA 207 or MA 231

AR 111

4 CAC Electives

An internship will be strongly encouraged within all specializations. It is also a CAC elective.

*New course to be proposed

**Senior Project course
should be a capstone project
within the specialization.