

# ADVANCED CYBERSECURITY EXPERIENCE FOR STUDENTS MINOR

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The ACES (Advanced Cybersecurity Experience for Students) Minor is housed in the Honors College but is open to all undergraduate students in all majors. This minor takes a multidisciplinary approach to cybersecurity education in that students gain knowledge about many of the fields that intersect in cybersecurity (e.g., legal and public policy aspects, criminal justice, journalism, and computer science and engineering). With an emphasis on hands-on experiences, students will gain practical skills through coursework, seminars, group projects, internships, and research, both on and off campus.

Students in the ACES Minor will also have opportunities to engage in the larger ACES community, including serving as peer mentors, tutors, and advisors for ACES Living-Learning Program students; participating in educational events; and serving as student leaders on the ACES Student Board. ACES Minor students will also have regular interactions with corporate and governmental leaders in cybersecurity, who will serve as both mentors and professional contacts.

## Requirements

The ACES Minor features a customizable 16-credit curriculum.

Course	Title	Credits
<b>PREREQUISITES: Required for students who have not completed the ACES Living-Learning Program</b>		
HACS201	Introduction to UNIX <sup>1</sup>	1
HACS202	Group Project in Cybersecurity	3
Total Credits		4

<sup>1</sup> HACS201 is waived for students who have completed CMSC216

Course	Title	Credits
<b>Required Course <sup>2</sup></b>		
HACS318	Cybersecurity Professionals Colloquium Series	1
<b>Electives <sup>3</sup></b>		
HACS402	Applied Security Analysis and Visualization	3
HACS404		3
HACS408	Advanced Seminar in Cybersecurity	3
<b>Experiential Learning</b>		
Select a minimum of 3 and a maximum of 6 credits		
HACS479	Undergraduate Research in Cybersecurity	1-3
HACS498	Cybersecurity Group Problem Solving	3
Total Credits		14-16

<sup>2</sup> Required for all ACES Minor students

<sup>3</sup> Select at least 3 courses. Students may also substitute one or two electives from courses including CCJS418B, CMSC414, CMSC456, CMSC498R, ENEE459C, ENEE459D, ENEE459E, and ENME442.

### Notes:

- At the time of application students must have 30 university credits completed (including transfer credit), a minimum cumulative GPA of a 3.0, and at least 4 semesters remaining prior to graduation
- Upon admission to the minor students will become part of the Honors College and are subject to its policies
- Students must maintain a 3.0 cumulative GPA to remain in good standing in the minor per Honors College requirements
- All courses used to satisfy the requirements of the minor must be completed with a grade of "C-" or better
- A maximum of 2 courses may be used to satisfy the requirements of both a major and a minor