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 participating in educational events. 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

This minor program requires a minimum of 16 credits.

These credits are earned in the following ways:

- Foundation classes: 1-3 credits, depending on student background
- Electives classes: 9-12 credits, depending on student background
- Experiential Learning class: 3 credits

The students will earn their 16 minor credits through one of three pathways, depending on their prior academic background.

Pathways:

1. Computer Science/Computer Engineering Pathway (for students who have taken CMSC216)

Course	Title	Credits
Foundations Courses		
HACS202	Group Project in Cybersecurity	3
HACS318	Cybersecurity Professionals Colloquium Series (HACS318A)	1
Electives Courses		9
HACS408 seminars and/or substitution courses		
Experiential Learning Courses		3
HACS479	Undergraduate Research in Cybersecurity	
HACS498	Cybersecurity Group Problem Solving	
HACS497	Cybersecurity Experience Reflection	
Total Credits		**16**

2. ACES Living-Learning Pathway (for students who have taken HACS100, HACS101, and HACS200)

Course	Title	Credits
Foundations Courses		
HACS318	Cybersecurity Professionals Colloquium Series (HACS318A)	1
Electives Courses		12
HACS408 seminars and/or substitution courses		
Experiential Learning Courses		3
HACS479	Undergraduate Research in Cybersecurity	
HACS498	Cybersecurity Group Problem Solving	
HACS497	Cybersecurity Experience Reflection	
Total Credits		**16**

3. Pathway for Students not in Computer Science, Computer Engineering, or the ACES Living-Learning Program

Course	Title	Credits
Foundations Courses		
HACS201	Introduction to UNIX	1
HACS202	Group Project in Cybersecurity	3
HACS318	Cybersecurity Professionals Colloquium Series (HACS318A)	1
Electives Courses		9
HACS408 seminars and/or substitution classes		
Experiential Learning Course		3
HACS479	Undergraduate Research in Cybersecurity	
HACS498	Cybersecurity Group Problem Solving	
HACS497	Cybersecurity Experience Reflection	
Total Credits		**17**

[1] Students may substitute one or two electives from courses including: BUDT758D, CCJS318I, CMSC412, CMSC414, CMSC417, CMSC456, ENEE447, ENEE456, ENEE457, ENEE459B, ENME442, ENME442, INST464, INST467, and PLCY388C.

Notes:

- At the time of application students must have 30 university credits completed (including transfer credit, and excluding AP, IB, and dual enrolled credits), a minimum cumulative GPA of a 3.2, and at least 3 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 3.2 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