

Cybersecurity

Department Information

- **Department Web Site:**
<https://www.ndsu.edu/cs/>
- **Credential Offered:**
B.S.; UG Certificate
- **Official Program Curriculum:**
catalog.ndsu.edu/undergraduate/program-curriculum/cybersecurity/ (<http://catalog.ndsu.edu/undergraduate/program-curriculum/cybersecurity/>)

Cybersecurity is designed to provide students with the knowledge and skills to allow students to succeed in the rapidly growing field of cybersecurity. It will prepare students to identify security issues with computing systems and networks, prior to attacks, and to detect and respond to ongoing attacks. This program will provide students with the skills that they will need to understand and respond to the computing, cybersecurity and relevant scientific challenges of today and tomorrow. Students will be prepared for entry level positions in a number of careers, such as cybersecurity analyst, defensive cybersecurity, penetration testing and computer and network forensics.

The cybersecurity certificate draws from the set of courses that are specific to the B.S. in Cybersecurity and the Cybersecurity track of B.S. in Computer Science degrees. The certificate can be of interest to professionals with computer science degrees who wish to expand their expertise in the area of cybersecurity. It is also targeted at current students who complete a different track of the B.S. in Computer Science and wish to cover more than one specialization.

Freshman			
Fall	Credits	Spring	Credits
CSCI 105		3 ENGL 120	3
ENGL 110		3 MATH 166 ¹	4
MATH 146 or 165 ¹		4 CSCI 160	4
CSCI 159		3 Gen Ed Wellness	2
Gen Ed Science/Tech & Lab		4 Gen Ed HUM/FA & Glob Persp	3
		17	16
Sophomore			
Fall	Credits	Spring	Credits
COMM 110		3 CSCI 161	4
CSCI 429		3 STAT 331 or 368 ¹	2-3
CSCI 222		3 Cyber Elective	3
CSCI 277		3 Gen Ed Science/Tech	3
STAT 330 or 367 ¹		3 Gen Ed Soc/Beh Sci & Cult Div	3
		15	15-16
Junior			
Fall	Credits	Spring	Credits
CSCI 366		3 CSCI 371	3
CSCI 403		3 CSCI 374	3
CSCI 405		3 CSCI 404	3
Gen Ed Soc/Beh Sci		3 ENGL 321 or 324	3
Gen Ed HUM/FA		3 Free Elective	3
		15	15
Senior			
Fall	Credits	Spring	Credits
CSCI 474		3 CSCI 445	3
CSCI 409		3 CSCI 408	3

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CSCI 410	3	CSCI 411	2
Cyber Elective	3	Free Elective	4
Free Elective	3		
	15		12

Total Credits: 120-121

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MATH 165/166 are required if taking the STAT 367 & 368 sequence.