

CYBERSECURITY CERTIFICATE

Cybersecurity is the practice of managing information related risks by ensuring confidentiality, integrity, authentication, availability, and non-repudiation of data. In addition to the national interest in cybersecurity, local businesses are increasingly reliant on secure computer infrastructures for their daily operations. A graduate-level certificate is a logical step to enhance the skill set of local and at-a-distance cybersecurity professionals. Additionally, the certificate program can serve as a feeder into the MS in cybersecurity degree should the students in the certificate choose to continue their graduate education.

Program Related Information

Program Contact

si2gpc@unomaha.edu

Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/school-of-interdisciplinary-informatics/cybersecurity/cybr-graduate-certificate.php>)

Admissions

General Application Requirements and Admission Criteria (<http://catalog.unomaha.edu/graduate/admission/>)

Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

Other Requirements

- The minimum undergraduate grade point average requirement for the program is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a four-year undergraduate degree.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
 - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** a two-page, double-spaced, word-processed essay that addresses the following two topics:
 - Discussion of two accomplishments that demonstrate your potential for success in the graduate program
 - Discussion of your unique personal qualities and life experiences that distinguish you from other applicants to this graduate program
- **Resume:** Submit a detailed resume indicating your work experience and background

Degree Requirements

Code	Title	Credits
Required Courses		
CYBR 8366	PRINCIPLES OF SECURE SYSTEM DESIGN	3

Select one of the following: 3

CYBR 8410	DISTRIBUTED SYSTEMS AND NETWORK SECURITY
CYBR 8420	SOFTWARE ASSURANCE
CYBR 8490	CYBER INVESTIGATIONS
Electives 6	
CYBR 8396	MOBILE DEVICE FORENSICS
CYBR 8436	QUANTUM COMPUTING AND CRYPTOGRAPHY
CYBR/ISQA 8570	INFORMATION SECURITY POLICY AND ETHICS
CYBR 8446	INDUSTRIAL CONTROL SYSTEM SECURITY
CYBR 8450	APPLIED CRYPTOGRAPHY
CYBR 8456	ETHICAL HACKING - MALWARE ANALYSIS
CYBR 8460	SECURITY OF EMBEDDED SYSTEMS
CYBR 8466	ETHICAL HACKING - NETWORK ANALYSIS
CYBR 8470	SECURE WEB APPLICATION DEVELOPMENT
CYBR 8480	SECURE MOBILE DEVELOPMENT
CYBR 8546	COMPUTER SECURITY MANAGEMENT
CYBR 8080	SPECIAL TOPICS IN CYBERSECURITY
CYBR 8900	INDEPENDENT STUDY AND RESEARCH IN CYBERSECURITY
CYBR 8910	INTERNSHIP
CYBR 8986	SPECIAL TOPICS IN CYBERSECURITY
CSCI 8340	DATABASE MANAGEMENT SYSTEMS II
CSCI 8530	ADVANCED OPERATING SYSTEMS
CSCI/MATH 8566	NUMBER THEORY & CRYPTOGRAPHY
CSCI 8610	FAULT TOLERANT DISTRIBUTED SYSTEMS
ISQA 8060	RESEARCH IN MIS
ISQA 8080	SEMINAR IN MANAGEMENT INFORMATION SYSTEMS
ISQA 8546	COMPUTER SECURITY MANAGEMENT
ISQA 8560	INFORMATION WARFARE AND SECURITY
ISQA 8580	SECURITY RISK MANAGEMENT AND ASSESSMENT

Total Credits 12

Incoming certificate students that do not have a cybersecurity background may also require foundation courses as needed prerequisites, depending on which core courses are selected and depending on the background of the student.

Completion of the Certificate

During what is expected to be the semester the certificate is completed and prior to the posted deadline, students should apply for the certificate through MavLINK on or before the deadline. Information can be found here (<http://www.ses.unomaha.edu/registrar/graduate.php>). If you complete the application form and do not complete all of the requirements for the certificate, contact the Office of Graduate Studies as soon as possible. You must reapply during the next semester in which you expect to complete the certificate; no additional fee is charged to reactivate your application.

The following requirements are due 12 working days prior to commencement:

- “Incomplete” and “NR” grades from previous terms must be removed so that the grade will be in the Office of Graduate Studies.
- All fees, fines, and other obligations due the university must be settled.

For students currently enrolled in courses that are a part of their plan of study, enrollment must be maintained in order to complete the certificate. A grade for any current enrollment must be received by the Registrar's Office no later than the close of business on the fifteenth working day following the end of a semester.

Awarding of Graduate Certificates

The Office of Graduate Studies will mail the certificate to students when all requirements are completed and all obligations to the university are satisfied. The Graduate College will not approve any changes in the student's permanent record once the certificate is awarded.