# Cybersecurity - Master of Science

## Program requirements

### Admission

Admission to the Master of Science in Cybersecurity Program requires:

1. Completion of the prerequisite coursework: Introduction to Computer Science and either Calculus or Statistics. The Introduction to Computer Science course prerequisite should show evidence of programming and database competencies. Students will be required to satisfy all program prerequisites prior to formal admission into the program.
2. An overall undergraduate grade point average of at least 3.00 on a 4.00 scale.
3. A completed bachelor's degree.

### Curriculum

34 credits

| Code | Title | Credits |
|---|---|---|
| **Core** | | **21** |
| CYB 700 | Fundamentals of Cybersecurity | |
| CYB 703 | Network Security | |
| CYB 705 | Sociological Aspects of Cybersecurity | |
| CYB 707 | Cybersecurity Program Planning and Implementation | |
| CYB 710 | Introduction to Cryptography | |
| CYB 715 | Managing Security Risk | |
| CYB 720 | Communication in Cybersecurity | |
| **Choose one track** | | **9** |
| **Digital forensics track** | | |
| CYB 725 | Computer Forensics and Investigations | |
| CYB 730 | Computer Criminology | |
| CYB 735 | Network Forensics | |
| **Cyber response track** | | |
| CYB 740 | Incident Response and Remediation | |
| CYB 745 | Secure Operating Systems | |
| CYB 750 | Offensive Security and Threat Management | |
| **Governance and leadership track** | | |
| CYB 755 | Security Administration | |
| CYB 760 | Cybersecurity Leadership and Team Dynamics | |
| CYB 765 | Cybersecurity Management | |
| **Security architecture track** | | |
| CYB 770 | Security Architecture | |
| CYB 775 | Applied Cryptography | |
| CYB 780 | Software Security | |
| or CYB 785 | Cyber Physical System Security | |
| **Capstone** | | **4** |
| CYB 789 | Cybersecurity Pre-Capstone | |
| CYB 790 | Cybersecurity Capstone | |
| **Total Credits** | | **34** |

## University requirements

## University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (http://catalog.uwlax.edu/graduate/programrequirements/) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Dean of Graduate & Extended Learning. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)