

# CYBERSECURITY, M.S.

Offered through Saint Louis University's School for Professional Studies, our Master of Science in Cybersecurity will teach you to apply information security principles to analyze, detect and mitigate vulnerabilities and intrusions to your organization's cyber infrastructure. You will also gain a deeper appreciation and understanding of security and privacy's social, policy, ethical, and legal aspects.

Graduates with an M.S. in cybersecurity are prepared to manage and lead cyber teams and programs in roles ranging from government cybersecurity analysts to data security consultants. A unique aspect of SLU's cybersecurity program is the ability to earn a graduate certificate that complements a master's degree, often without taking additional credits. This allows you to tailor the program to your specific interests.

Along the way, you'll learn from a network of diverse peers from around the world, merging technology with human and organizational structures as you engage in knowledge discovery, management and dissemination of industry-critical knowledge.

You can also earn a graduate certificate that complements a master's degree, often without taking additional credits, allowing you to tailor the program to your specific interests.

As part of the School for Professional Studies, this 30-credit master's program offers data-driven professionals like you a flexible option to meet your career goals. With multiple start terms, you can begin the master's program in the fall or spring. You will join a community of academics and practitioners from a wide range of subjects and professional backgrounds, providing the opportunity to learn from a network of peers.

The 100% online program offers flexible courses in eight-week terms, making advanced education more accessible for working professionals.

Some SPS programs are also offered in on-campus versions, created so that international students can meet their visa requirements.

## Faculty

As a student in the School for Professional Studies at Saint Louis University, you'll learn from exceptional faculty who are leading experts in their fields. They bring real-world knowledge to the classroom and are dedicated to your professional success. Learn more about the SPS faculty (<https://www.slu.edu/professional-studies/contact-us/faculty/>).

## Careers

SLU's master's degree in cybersecurity prepares you to manage and lead cyber teams and programs. Graduates of the cybersecurity program have the foundation necessary to succeed as network and computer systems administrators, government cybersecurity analysts, computer systems analysts, information security analysts, computer and information systems managers, and data security consultants.

## Tuition

Tuition	Total Program Cost
<b>On-Ground</b> MS Applied AI and Decision Analytics, MS Cybersecurity, MS Information Systems and Emerging Technologies, MS Project Management, MS Technology Leadership	\$42,000

Tuition	Cost Per Credit
<b>Online</b> Graduate Degrees and Post-Baccalaureate Certificates	\$810

Additional charges may apply. Other resources are listed below:

Information on Tuition and Fees (<https://catalog.slu.edu/academic-policies/student-financial-services/tuition/>)

Miscellaneous Fees (<https://catalog.slu.edu/academic-policies/student-financial-services/fees/>)

Information on Summer Tuition (<https://catalog.slu.edu/academic-policies/student-financial-services/tuition-summer-current/>)

## Scholarships and Financial Aid

For priority consideration for graduate assistantship, apply by Feb. 1.

For more information, visit the Office of Student Financial Services (<https://www.slu.edu/financial-aid/>).

## Learning Outcomes

1. Graduates will be able to apply program-specific knowledge to address practical problems using an ethical, evidence-based framework.
2. Graduates will be able to utilize argumentation skills appropriate for a given problem or context.
3. Graduates will be able to construct and implement networks and data management systems that protect intellectual property using cybersecurity principles.
4. Graduates will be able to apply information security principles to analyze, detect and mitigate vulnerabilities and intrusions.

## Requirements

### Admission Requirements

- Completed application
- Undergraduate degree (most successful applicants have an undergraduate grade point average of 3.0 or better)
- Official transcript from a degree-granting institution
- Resume or curriculum vitae
- External reference recommendations (encouraged but not required)

Upon admission, a new online student\* must successfully complete a virtual meeting with their academic coach to be enrolled in first-term coursework.

\* This is for 100% online students only. International on-campus graduate students will meet their academic coach at on-campus orientation.

## Requirements for International Students

All admission policies and requirements for domestic students apply to international students, along with the following:

- Applicants must demonstrate English language proficiency. Some examples of demonstrated English language proficiency include minimum score requirements for the following standardized tests:
  - Paper-based TOEFL: 550
  - Internet-based TOEFL: 80
  - IELTS: 6.5
  - PTE: 54
- Academic records, in English translation, of students who have undertaken postsecondary studies outside the United States must include the courses taken and/or lectures attended, practical laboratory work, the maximum and minimum grades attainable, the grades earned or the results of all end-of-term examinations, and any honors or degrees received. WES and ECE transcripts are accepted.

Apply Now (<https://www.slu.edu/apply.php>)

## Program Requirements

Code	Title	Credits
<b>Graduate Core Courses</b>		
AA 5221	Applied Analytics & Methods I <sup>†</sup>	3
ORLD 5050	Ethical, Evidence-Based Decision Making	3
IS 5101	AI-Enhanced Software Development Practice	3
<b>Foundation Courses</b>		
CYBR 5000	Cybersecurity Principles	3
CYBR 5010	Networking Concepts	3
CYBR 5030	Cyber Threats and Defense	3
<b>Students must choose standard track or one of the following Post-Baccalaureate Certificates:</b>		<b>9</b>
<i>Standard Track</i>		
CYBR 5210	Digital Investigations	
CYBR 5220 or CYBR 5230	Incident Response and Mitigation Intrusion Detection and Analysis	
CYBR 5240	Cloud Security	
Cloud Computing, Post-Baccalaureate Certificate ( <a href="https://catalog.slu.edu/colleges-schools/professional-studies/cloud-computing-pbc/">https://catalog.slu.edu/colleges-schools/professional-studies/cloud-computing-pbc/</a> )		
Threat Intelligence, Post-Baccalaureate Certificate ( <a href="https://catalog.slu.edu/colleges-schools/professional-studies/threat-intelligence-pbc/">https://catalog.slu.edu/colleges-schools/professional-studies/threat-intelligence-pbc/</a> )		
AI for Cybersecurity, Post-Baccalaureate Certificate ( <a href="https://catalog.slu.edu/colleges-schools/professional-studies/ai-cybersecurity-pbc/">https://catalog.slu.edu/colleges-schools/professional-studies/ai-cybersecurity-pbc/</a> )		
<b>Master's Project</b>		<b>3</b>
CYBR 5960	Masters Research Project	
<b>Total Credits</b>		<b>30</b>

<sup>†</sup> Former business students may substitute OPM 5020 Applied Business Statistics (3 cr) for AA 5221 Applied Analytics & Methods I (3 cr)

## Continuation Standards

Students must maintain a cumulative grade point average (GPA) of 3.00 in all graduate/professional courses.

## Roadmap

This roadmap is just one example of a semester-by-semester plan of study for this program. There are other plans students can and do take. The plan of study for each particular student is established in consultation with each student's academic advisor; *this roadmap does not replace academic advising appointments.*

Roadmap notes:

- This Roadmap assumes full-time enrollment unless otherwise noted.
- Courses/Milestones marked with an "!" are critical and must be completed in the semester listed in the Roadmap to ensure a timely graduation.
- Course availability and sequencing are subject to change.

## Fall Entry

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
<b>Fall 1</b>		
AA 5221	Applied Analytics & Methods I	3
IS 5101	AI-Enhanced Software Development Practice	3
<b>Fall 2</b>		
CYBR 5010	Networking Concepts	3
<b>Credits</b>		<b>9</b>
<b>Spring</b>		
<b>Spring 1</b>		
CYBR 5000	Cybersecurity Principles	3
CYBR 5030	Cyber Threats and Defense	3
<b>Spring 2</b>		
ORLD 5050	Ethical, Evidence-Based Decision Making	3
<b>Credits</b>		<b>9</b>
<b>Year Two</b>		
<b>Fall</b>		
<b>Fall 1</b>		
Electives or Certificate Courses		6
<b>Fall 2</b>		
Elective or Certificate Course		3
<b>Credits</b>		<b>9</b>
<b>Spring</b>		
<b>Spring 1</b>		
CYBR 5960	Masters Research Project	3
<b>Credits</b>		<b>3</b>
<b>Total Credits</b>		<b>30</b>

## Spring Entry

Course	Title	Credits
<b>Year One</b>		
<b>Spring</b>		
<b>Spring 1</b>		
CYBR 5000	Cybersecurity Principles	3
CYBR 5030	Cyber Threats and Defense	3
<b>Spring 2</b>		
ORLD 5050	Ethical, Evidence-Based Decision Making	3
<b>Credits</b>		<b>9</b>
<b>Fall</b>		
<b>Fall 1</b>		
AA 5221	Applied Analytics & Methods I	3
IS 5101	AI-Enhanced Software Development Practice	3
<b>Fall 2</b>		
CYBR 5010	Networking Concepts	3
<b>Credits</b>		<b>9</b>
<b>Year Two</b>		
<b>Spring</b>		
<b>Spring 1</b>		
Electives or Certificate Courses		6
<b>Spring 2</b>		
Elective or Certificate Course		3
<b>Credits</b>		<b>9</b>
<b>Summer</b>		
CYBR 5960	Masters Research Project	3
<b>Credits</b>		<b>3</b>
<b>Total Credits</b>		<b>30</b>

## Contact Us

Apply for Admission (<https://www.slu.edu/professional-studies/becoming-a-student/>)

For additional admission questions, please call 314-977-2330 or email [sps@slu.edu](mailto:sps@slu.edu).