

AI FOR CYBERSECURITY, POST-BACCALAUREATE CERTIFICATE

The Post-Baccalaureate Certificate in AI for Cybersecurity prepares students to apply artificial intelligence and machine learning within cybersecurity environments. The curriculum focuses on enhancing threat detection, supporting security operations, and improving decision-making through AI-driven tools. Students gain foundational knowledge in AI applications for security while developing an understanding of responsible and effective technology use. Graduates are equipped to contribute to modern cybersecurity efforts in an evolving digital landscape.

Careers

Potential careers include:

- AI Security Analyst
- Cybersecurity Analyst
- Threat Intelligence Analyst
- Security Automation Engineer
- Machine Learning Security Engineer
- Security Operations (SOC) Analyst
- Cyber Risk Analyst
- AI Governance Specialist (Cybersecurity)
- Security Solutions Architect

Tuition

Tuition	Cost Per Credit
Online 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/>)

Learning Outcomes

1. Graduates will be able to apply artificial intelligence techniques to detect and respond to cyber threats, integrate AI tools into security infrastructures, and address the ethical, legal and security challenges of AI in cybersecurity.

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

- Statement of purpose (about 500 words)
- Resume or curriculum vitae
- External reference recommendations (encouraged but not required)

Upon admission, a new student must successfully complete a virtual meeting with their academic coach to enroll in first-term coursework.

Requirements for International Students

Along with the general admission requirements above, the following must be provided by prospective international students:

- Demonstration of English Language Proficiency (<https://catalog.slu.edu/academic-policies/office-admission/graduate/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, for post-secondary studies outside the United States. These 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 (<https://www.slu.edu/apply.php>)

Program Requirements

Code	Title	Credits
CYBR 5260	Applied AI for Cybersecurity	3
CYBR 5280	AI Governance, Law, and Ethics	3
AA 5011	Foundations of Applied Artificial Intelligence & Machine Learning	3
Total Credits		9

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 "I" 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.

Course	Title	Credits
Year One		
Fall		
Fall 1		
AA 5011	Foundations of Applied Artificial Intelligence & Machine Learning	3
CYBR 5280	AI Governance, Law, and Ethics	3

Fall 2		
CYBR 5260	Applied AI for Cybersecurity	3
Credits		9
Total Credits		9

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.