ADVANCED ANALYTICS, POST-BACCALAUREATE CERTIFICATE

The Post-Baccalaureate Certificate in Advanced Analytics is designed for students with a foundational background in exploratory data analysis, offering advanced education in machine learning, deep learning, generative AI, and advanced statistical modeling.

The program equips students with the knowledge and skills needed to conceptualize, design and implement analytics projects that address specific business challenges. Graduates will be prepared for roles requiring expertise in these advanced analytical techniques, enabling them to drive data-informed decision-making and innovation in their organizations.

Admission Requirements

- Completed application
- Undergraduate degree (most successful applicants have an undergraduate grade point average of 3.00 or better)
- Applicants should have a background, through a combination of prior academic and/or professional work, in descriptive statistics and inferential statistical modeling. This can be demonstrated through a combination of academic transcripts, appropriate certifications, and resume.
- 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 Now (https://www.slu.edu/apply.php)

Tuition

Tuition	Cost Per Credit
Online Graduate Degrees and Post-Baccalaureate Certificates	$790

Additional charges may apply. Other resources are listed below:

Net Price Calculator (https://www.slu.edu/financial-aid/tuition-and-costs/calculator.php)

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/)

Learning Outcomes

1. Graduates will be able to design and implement analytics systems tailored to specific decision-making contexts.
2. Graduates will be able to communicate model uncertainty to decision makers, supporting informed, risk-aware decision-making.

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Program Requirements

Code	Title	Credits
AA 5300	Advanced Analytics	3
AA 5750	Contemporary Issues in Analytics	3
AA 5800	Simulation and Modeling	3
Total Credits		**9**

Roadmap

Roadmaps are recommended semester-by-semester plans of study for programs and assume full-time enrollment unless otherwise noted.

Courses and milestones designated as critical (marked with !) must be completed in the semester listed to ensure a timely graduation. Transfer credit may change the roadmap.

This roadmap should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their advisor/mentor each semester. Requirements, course availability and sequencing are subject to change.

Fall entry

Course	Title	Credits
Year One		
Fall		
Fall 1		
AA 5300	Advanced Analytics	3
Fall 2		
AA 5750	Contemporary Issues in Analytics	3
	Credits	**6**
Spring		
Spring 1		
AA 5800	Simulation and Modeling	3
	Credits	**3**
	Total Credits	**9**

Spring entry

Course	Title	Credits
Year One		
Spring		
Spring 1		
AA 5300	Advanced Analytics	3
Spring 2		
AA 5750	Contemporary Issues in Analytics	3
	Credits	**6**
Summer		
AA 5800	Simulation and Modeling	3
	Credits	**3**
	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.