ANALYTICS, M.S.

In Saint Louis University's Master of Science in Analytics program, you will learn to design and implement analytics projects to solve complex organizational problems through statistical and analytical techniques for analyzing datasets of various sizes. Through your coursework studying analytics at SLU, you'll gain project management and decision-making skills and learn how to communicate the intricacies of complex data more effectively.

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 33-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.

The on-campus version of this program, created so that international students can meet their visa requirements, is also offered in flexible terms.

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 M.S. in analytics provides students with skills in data mining, data visualization, predictive analytics, design and implementation of analytics projects and data management. Graduates from this program are ready to discover the patterns within large quantities of data and provide insightful recommendations that inform organizational decision-making.

Recent trends in the job market data and experts' predictions indicate that the job market for data analytics, business analytics and similar skill sets will continue to grow.

Tuition

Tuition	Total Program Cost
On-Ground MS Analytics, MS Cybersecurity, MS Information Systems, Master of Professional Studies, MS Project Management	$42,000
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/)

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 employ research methodologies appropriate for the field of analytics.
2. Graduates will be able to apply program-specific knowledge to address practical problems using an ethical, evidence-based framework.
3. Graduates will be able to implement analytics systems that facilitate context-appropriate decision-making.
4. Graduates will be able to utilize argumentation skills appropriate for a given problem or context.

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 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 post-secondary 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
Graduate Core Courses		
AA 5221	Applied Analytics & Methods I †	3
ORLD 5050	Ethical, Evidence-Based Decision Making	3
Foundation Courses		
AA 5050	Programming & Problem Solving	3
AA 5000	Foundations of Analytics	3
AA 5100	Information Retrieval ‡	3
AA 5200	Visualization, Feedback and Dissemination	3
AA 5222	Applied Analytics & Methods II: Survey Approaches	3
or AA 5223	Applied Analytics & Methods II: Experimental Approaches	
Electives or Post-Baccalaureate Certificate		**9**
Three courses, 9 credits, of electives can be taken from the following courses or as part of the Advanced Analytics, Post Baccalaureate Certificate. Other courses whose learning objectives align with those of the MS Analytics program may also count as electives, subject to approval by the program director.		
AA 5300	Advanced Analytics	
AA 5750	Contemporary Issues in Analytics	
AA 5800	Simulation and Modeling	
ORLD 5700	Advanced Evidence-Based Decision Making	
Advanced Analytics, Post-Baccalaureate Certificate (https://catalog.slu.edu/colleges-schools/professional-studies/advanced-analytics-pbc/)		
Master's Project		**3**
AA 5960	Masters Research Project	
Total Credits		**33**

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

‡ Former computer science students may substitute CSCI 5710 Databases (3 cr) for AA 5100 Information Retrieval (3 cr) and former business students may substitute ITM 6550 Big Data in Organizations (3 cr) for AA 5100 Information Retrieval (3 cr)

Continuation Standards

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

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.

100% Online Roadmap

Course	Title	Credits
Year One		
Fall		
Fall 1		
AA 5000	Foundations of Analytics	3
Fall 2		
ORLD 5050	Ethical, Evidence-Based Decision Making	3
	Credits	**6**
Spring		
Spring 1		
AA 5221	Applied Analytics & Methods I	3
Spring 2		
AA 5222 or AA 5223	Applied Analytics & Methods II: Survey Approaches or Applied Analytics & Methods II: Experimental Approaches	3
OR		
AA 5250	Project Management	3
	Credits	**9**
Year Two		
Fall		
Fall 1		
AA 5200	Visualization, Feedback and Dissemination	3
Pick one of the following:		3
AA 5300	Advanced Analytics	
AA 5750	Contemporary Issues in Analytics	
AA 5800	Simulation and Modeling	
	Credits	**6**
Spring		
Spring 1		
Pick one of the following (not previously taken):		3
AA 5300	Advanced Analytics	
AA 5750	Contemporary Issues in Analytics	
AA 5800	Simulation and Modeling	
Spring 2		
AA 5100	Information Retrieval	3
	Credits	**6**

Summer		
AA 5960	Masters Research Project	3
Pick one of the following (not previously taken):		3
AA 5300	Advanced Analytics	
AA 5750	Contemporary Issues in Analytics	
AA 5800	Simulation and Modeling	
	Credits	**6**
	Total Credits	**33**

On-campus Roadmap

Course	Title	Credits
Year One		
Fall		
16 Week Course (Covers Fall 1 and Fall 2)		
AA 5050	Programming & Problem Solving	3
Fall 1		
AA 5221	Applied Analytics & Methods I	3
Fall 2		
AA 5222 or AA 5223	Applied Analytics & Methods II: Survey Approaches or Applied Analytics & Methods II: Experimental Approaches	3
	Credits	**9**
Spring		
Spring 1		
AA 5000	Foundations of Analytics	3
AA 5200	Visualization, Feedback and Dissemination	3
Spring 2		
AA 5100	Information Retrieval	3
ORLD 5050	Ethical, Evidence-Based Decision Making	3
	Credits	**12**
Year Two		
Fall		
Fall 1		
AA 5300 or ORLD 5700	Advanced Analytics or Advanced Evidence-Based Decision Making	3
AA 5800	Simulation and Modeling	3
Fall 2		
AA 5750	Contemporary Issues in Analytics	3
	Credits	**9**
Spring		
16 Week Course (Covers Spring 1 and Spring 2)		
AA 5960	Masters Research Project	3
	Credits	**3**
	Total Credits	**33**