STEM ENTREPRENEURSHIP, M.S.

Saint Louis University's M.S. in STEM Entrepreneurship was developed to build a STEM-trained workforce with the entrepreneurial skillset necessary to create true change and tackle global societal challenges, such as the NAE Grand Challenges (http://www.engineeringchallenges.org/challenges.aspx) or the UN Sustainable Development Goals (https://sdgs.un.org/goals/), in alignment with our Jesuit mission.

This 11-month Master of Science degree program is a cohort-based program that begins each summer and spans three terms: summer, fall and spring. This unique program, administered jointly between the School of Science and Engineering and the Chaifetz School of Business, is focused on technology innovation, entrepreneurship and commercialization.

Curriculum Overview

The M.S. in STEM Entrepreneurship is an 11-month cohort-based program consisting of 36 credit hours spanning technical, STEM, entrepreneurship and business coursework, and an experiential entrepreneurship studio research sequence. Each cohort starts in June, with participants taking nine credit hours, including their foundational entrepreneurship coursework and the initiation of their year-long entrepreneurship research sequence. The fall term includes 15 credit hours and offers participants the opportunity to identify a technical STEM elective course and to pursue coursework towards select business certificates. The spring term concludes the program with 12 credit hours, another technical STEM elective, completion of their business certificates, and the finalization of their entrepreneurship research project.

Careers

The M.S. in STEM Entrepreneurship is designed to provide individuals with technical backgrounds in STEM fields with the entrepreneurship and business skills necessary to become innovators in lead industrial growth areas such as geospatial, agricultural technology, bioscience and health innovation, digital transformation, financial technology and advanced manufacturing.

Admission Requirements

- · Bachelor's degree with a minimum cumulative GPA of 3.0
- Background (completed major / minor OR job related experience) in chemistry, biology, physics, computer science, engineering, geographic information systems, biochemistry, environmental science, technology, data analytics / handling, etc.
- · Official transcripts from all undergraduate and graduate institutions
- · Application packet submissions:
 - Statement of Intent (Why this program? Why is this important for your career aspirations?)
 - Entrepreneurship Statement (Why do you think you will make a good entrepreneur? What have you done or plan to do to become more entrepreneurial?)
 - · Resume or CV
- · Three (3) recommendations

International Requirements

All admission policies and requirements for domestic students apply to international students. International students must also meet the following additional requirements:

- Demonstrate English Language Proficiency (https://catalog.slu.edu/ academic-policies/office-admission/undergraduate/englishlanguage-proficiency/)
- Financial documents are required to complete an application for admission and be reviewed for admission and merit scholarships.
- · Proof of financial support that must include:
 - A letter of financial support from the person(s) or sponsoring agency funding the student's time at Saint Louis University
 - A letter from the sponsor's bank verifying that the funds are available and will be so for the duration of the student's study at the University
- Academic records, in English translation, of students who have undertaken postsecondary studies outside the United States must include:
 - · 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
 - · Any honors or degrees received.

WES and ECE transcripts are accepted.

Tuition

Tuition	Cost Per Credit
Graduate Tuition	\$1,370

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

Both the School of Science and Engineering and the Chaifetz School of Business offer generous scholarships to make attaining a graduate degree from our programs accessible. Some competitive donor scholarships include:

- · Donald and Nora Manahan Scholarship and Research Fund
- Gerald E. Dreifke Engineering Scholarship
- · Malcolm and Elizabeth Jacobs Scholarship
- · SSE Graduate Fellowship
- · Peter Jackalus Graduate Fellowship

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

Learning Outcomes

- Students will demonstrate the ability to develop creative/innovative solutions to technological problems and to implement those as business opportunities.
- 2. Students will demonstrate proficiency in technical communication skills in written and oral formats.
- Students will demonstrate knowledge of ethical concepts and corporate social responsibility and be able to evaluate both business and technical problems from multiple ethical perspectives.
- Students will develop a strategic level understanding of the key functions of business: accounting, economics, finance, international business, management, marketing, operations and statistics.

Requirements

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	Code	Title	Credit	ts
	EESR Sequence			
	SE 5810	Experiential Entrepreneurship Studio Research -	· [3
	SE 5820	Experiential Entrepreneurship Studio Research -	· [[3
	SE 5830	Experiential Entrepreneurship Studio Research -	-	3
	Technical Elective	s *		6
Students will take 6 credits graduate coursework in any of the				

following disciplines: AEME, ASCI, BIOL, BME, CHEM, CSCI, CVNG, EAS, ECE, GIS, & PHYS

Entrepreneurship Requirements			
MGT 6000	Management	3	
MGT 6200	New Venture Initiation [†]	3	
MGT 6209	Managing Resources in Startups [†]	3	
MGT 6210	Advanced Business Plan - New Ventures [†]	3	
Business Electives or Business Certificate			

Students can select from the options below OR one of the business certificates

OPM 6050	Business Process and Operations Management
MKT 6400	Social Media and Digital Marketing
ITM 6550	Big Data in Organizations
MKT 6150	New Product Management

Other business courses or other STEM technical electives with program approval

Business Analytics, Post-Baccalaureate Certificate (https://catalog.slu.edu/colleges-schools/business/business-administration/business-analytics-post-baccalaureate-certificate/)

Digital Marketing, Post-Baccalaureate Certificate (https://catalog.slu.edu/colleges-schools/business/marketing/digital-marketing-post-baccalaureate-certificate/)

Product and Brand Management, Post-Baccalaureate Certificate (https://catalog.slu.edu/colleges-schools/business/marketing/product-brand-mqt-post-baccalaureate-certificate/)

Supply Chain Management, Post-Baccalaureate Certificate (https://catalog.slu.edu/colleges-schools/business/operations-information-technology-management/supply-chain-management-post-baccalaureate-certificate/)

Total Credits 36

* Pre-reqs can be waived with instructor consent as needed. The intention here is that students in this program can choose to further their STEM background beyond their undergraduate experience OR

- could choose new technical elective courses that will provide valuable technical skills for their EESR project.
- † Completion of select Management courses fulfill the requirements of the Entrepreneurship Post-Baccalaureate Certificate. (https://catalog.slu.edu/colleges-schools/business/management/entrepreneurship-post-baccalaureate-certificate/)

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.

Course	Title	Credits
Year One		
Summer		
SE 5810	Experiential Entrepreneurship Studio Research - I	3
MGT 6000	Management	3
MGT 6200	New Venture Initiation	3
	Credits	9
Fall		
SE 5820	Experiential Entrepreneurship Studio Research - II	3
MGT 6209	Managing Resources in Startups	3
Technical Elective Business Electives or Business Certificate Courses		3
		6
	Credits	15
Spring		
SE 5830	Experiential Entrepreneurship Studio Research - III	3
MGT 6210	Advanced Business Plan - New Ventures	3
Technical Elective		3
Business Elective or Business Certificate Course		
	Credits	12
	Total Credits	36

Contact Us

For more information about the M.S. in STEM Entrepreneurship program, email ssegrad-admissions@slu.edu.