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## Fast Facts: STEM + ED Teacher Preparation Program

### Why become a STEM Teacher?

- Jobs! The Florida Department of Education (FLDOE) has annually identified critical teacher shortages in the areas of science and math. These critical shortages translate into a high demand for STEM trained and certified teachers.
- Make an impact in the lives of children and young adults.
- Improve the quality of STEM education for current and future students in your community.
- Share your love of biology or math with others

### Become an ACES Scholar

Pursue your passion for STEM and teaching with a scholarship funded by the National Science Foundation. Awarding Career Educators in STEM (ACES) is a scholarship specifically designed for students who major in mathematics or biology, and minor in education. For more information, please visit: <https://www.saintleo.edu/stem-teaching> or email [ACES@saintleo.edu](mailto:ACES@saintleo.edu).

### Why STEM teacher prep at Saint Leo?

- Individualized academic advising by one of a select number of specialist faculty members dedicated to advising STEM major + Ed minor (i.e. STEM Teacher Preparation Program) students.
- Unique avatar (virtual reality) technology assisted and brain-based learning teacher preparation courses designed to enhance the training of STEM teachers moving into middle and high school positions.
- Faculty support and networking with existing teachers while a student at Saint Leo that also continues after graduation.
- Expert FLDOE Teacher Certification Exams preparation and assistance.
- Professional job placement assistance.
- Small class sizes, exceptional faculty, and values-based education.

### STEM + ED, STEM Teacher Preparation Program Course Requirements B.A. Mathematics + Education Minor | B.S. Biology + Education Minor

B.A. Mathematics	B.S. Biology (General Track)	Education Minor
<b>Required Courses (credit hours)</b>		
Programming in C/C++ (3)	Biological Principles I and Lab (4)	Teaching Diverse Populations (3)
Introduction to Statistics (3)	Biological Principles II and Lab (4)	
Calculus I (4)	Gateway Exam	The Adolescent Learner (3)
Calculus II (4)	Chemistry I and Lab (4)	Teaching Reading in the Secondary Content Areas (3)
Introduction to Discrete Math (3)	Chemistry II and Lab (4)	Educational Management & Organization (3)
Calculus III (4)	Organic Chemistry and Lab (4)	Educational Assessment (3)
Linear Algebra (3)	Physics I and Lab (4)	Practicum and Seminar (2)
Differential Equations (3)	Genetics and Lab (4)	Science/Math Methods in the Middle and Secondary School (3)
Preliminary Research Seminar (1)	Experimental Design (3)	Comprehensive ESOL (3)
Senior Project in Math (3)	Senior Seminar (1)	
15 credit hours of major electives. Students must select at least 9 credits from any 300- or 400-level mathematics courses. Students can take up to 6 credits to be selected from the list: • Mathematics Internship (3 – 6) • Circuit Theory and Analysis (3) • Mechanics and Materials (3) • Engineering Mechanics (3) • Algorithms and Data Structures (3) • Decision Support Systems (3) • Artificial Intelligence (3)	General Biology Track Requirements: Statistics (3) or Calculus I (4), Botany & Lab (4), Zoology and Lab (4), Biochemistry and Lab (4), Ecology and Lab (4), Org. Chem. II and Lab (4), Physics II and Lab (4)  At least 14 BIO elective credit hours, 9 of which at 300/400 level	Optional: • Education, Governance, History and Philosophy • Additional Teaching Internship



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