

B.S. STEM Major (Fall 2021 & Later)

Minimum 120 credits required for Bachelor's degree

Foundational Core (30-32 Credits)

		Grade
FYWS 125 ¹	First Year Seminar	
CTL-125	Critical Thinking	
Choose 1 course from each area:		
College-level Math Course		
² Natural/Physical Science		
Literature		
History	HI-100 or HI-102	
Arts/Design/Comm.		
Philosophy		
Theology/Religion		
Social/Behavioral Sciences		

Human Journey Seminars: Great Books in CIT (6 Credits)

CIT 201	CIT Seminar I	
CIT 202	CIT Seminar II	

Liberal Arts Explorations (LAE) (9 Credits Total)

Website - checksheets)		
Humanistic Inquiry (3 credits)		
Social and Global Awareness (3 credits)		
Scientific Literacy (3 credits)		

* See list of courses.

¹(Requires Grade C or higher)

²Science/Natural Science courses includes

approved Math and Computer Science courses. Students are required to take at least one course in Biology, Chemistry, or Physics in the Foundational or Liberal Arts Exploration Core.

CS and MA courses may be used as a Science/Natural Science in either the Foundational Core **or** as a requirement in the LAE Core but not in both categories.

Note: MA 006 and ESL courses **will not** count towards the 120 credit graduation requirement.

Approved Study Abroad courses may be used to satisfy requirements for the foundational core or a Liberal Arts Exploration

A maximum of 8 Applied Music credits may be applied towards graduation

Required Curriculum for Degree in Major¹

		Grade
BI109	Biology for Elementary Teachers with Lab	
BIXXX	Biology Elective	
CH101	The Physical World Lecture and Lab	
CHXXX	Chemistry Elective	
CS 104 or CS111	CS 104: Digital Animation and Gaming for Non-majors	
	CS 111: Introduction to Structured Programming	
ENGR 125	Engineering Explorations	
MA 107	Math for Elementary Teachers (4 credits)	
MA 108	Geometry for Educators	
PY 101	Earth and Space Science Lecture and Lab	
PYXXX	Physics Elective	
PS 273	Adolescent Psych	

Required Supporting Courses

		Grade
ENG 245	American Literature for Elementary Educators	
GS 150	World Geography	
HI 222 or 223	U.S. History to 1865 OR since 1865	
PO 121	Introduction to American Government	
PS 110	Intro to Psychology	
MA111 or MA131	Alg&Data for Elem Teachers or Elem. Stats	

Professional Education Sequence (42 credits)

Required Undergraduate Courses in the Farrington School of Education

ED 404	Creating Positive Elementary Classroom Environments	
ED 311	Junior Clinic and Seminar 1	Grade
ED 343	Introduction to Language & Literacy	
ED 314	Methods and Practice in Teaching Social Studies and Humanities	
ED 411	Junior Seminar and Clinic 2	
ED 440	Assessment	
ED 344	Methods and Practice in Teaching Foundational Literacy	
ED 410	Methods and Practice in Teaching Science	
ED 420	Methods and Practice in Teaching Mathematics	
ED 412	Senior Seminar and Clinic	
ED 491	Student teaching (9 credits)	
ED 490	Student teaching seminar	

Checksheet Key

T	Course transferred and Requirement satisfied
W	Requirement waived
TW	Course transferred and Requirement waived

SACRED HEART UNIVERSITY
College of Arts and Sciences

BS STEM (Fall 2021 & Later)

The STEM Major is designed to meet the needs of aspiring elementary school teachers interested in focusing on the sciences. Students who are not planning to become elementary teachers may select the STEM Major. For both groups, the STEM major is excellent preparation in the liberal arts, with focus on science, technology, engineering, and mathematics

SUGGESTED FOUR-YEAR SEQUENCE OF STUDY:

YEAR 1	SEMESTER 1 (16 credits)
FYWS 125 OR CTL 125	First Year Writing Seminar or Critical Thinking
PO 121 OR PS110	Intro to American Government or Intro to Psych
MA 107	Math for Elementary Teachers
HI 100	Western Civilizations
XXX	Foundational Core (FA/COMM, PH, TRS)

YEAR 1	SEMESTER 2 (16 credits)
FYWS 125 OR CTL 125	First Year Writing Seminar or Critical Thinking
PO 121 OR PS110	Intro to American Government or Intro to Psych
BI109	Biology for Elementary Teachers
GS150	World Geography (LAE: Global)
ENGR 125	Engineering Explorations
CS 104 OR 111	Introduction to Structured Programming

YEAR 2	SEMESTER 3 (15 credits)
CIT 201	The Journey to God
PY 101	Earth and Space Science/Lab
MA 108	Geometry for Elementary Teachers
ENG 245	Foundational Core - American Lit for Elem Educators
XXX	Foundational Core (FA/COMM, PH, TRS)

YEAR 2	SEMESTER 4 (15-16 credits)
CIT 202	The Journey to the World
CH 101	The Physical World/ Phys. Sci. Lab
HI 222 OR 223	US History to/since 1865 (LAE Humanistic)
MA 111/131	Algebra/Stats for Elem Teach/Statistics (LAE: Natural)
CH XXX	Chem Elective (3-4 credits)

INCLUDE TIME TO SPEND ONE DAY A WEEK IN CLINIC

YEAR 3	SEMESTER 5 (12 credits)
PY XXX	Physics Elective
ED 311	Junior Clinic and Seminar 1
XXX	Foundational Core (FA/COMM, PH, TRS)
ED 343	Intro to Language and Literacy
PS 273	Adolescent Psych
XXX	Free Elective

Take PRAXIS CORE This Semester

YEAR 3	SEMESTER 6 (15-16 credits)
ED 404	Creating Positive Eled Classroom Climates
ED 411	Junior Clinic and Seminar 2
ED 344	Methods and Practice in Foundational Literacy
ED 410	Methods & Practice Science
BI XXX	BI Elective (3-4 credits)

INCLUDE TIME TO SPEND ONE DAY A WEEK IN CLINIC

YEAR 4	SEMESTER 7 (15-16 credits)
ED 412	Senior Seminar and Clinic Elem
ED 400	Teaching Comp & Vocab
ED 420	Methods and Practice in Teaching Mathematics
ED 440	Assessment in Teaching and Learning
xxx	Free Elective

YEAR 4	SEMESTER 8 (14 credits)
ED 491	Student Teaching (9)
ED 490	Student Teaching Seminar
ED 314	Methods & Practice Social Studies

Major requirements begin fall semester Freshman Year and end spring semester Senior Year.
Professional Education Courses begin fall semester Junior Year and end Spring semester Senior Year.