BS Mathematics - Traditional (Fall 2022 & Later)

Minimum 120 credits required for Bachelor's degree

Foundational Core (30-32 Credits)

Course		Grade
FYWS 125[1]	First Year Seminar	
CTL-125	Critical Thinking	
MA ____	Foundational Math course	XXXXX
Choose 1 course from each area *		
[2]Natural/Physical Science		
Literature		
History	HI-100 or HI-102	
Arts/Design/Comm.		
Philosophy		
Theology/Relig		
Social/Behavioral Science		

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

Course		Grade
CIT 201	CIT Seminar I	
CIT 202	CIT Seminar II	

Liberal Arts Explorations (9 Credits Total)

Student must complete one course in each area.		
Humanistic Inquiry (3 credits)		
Social and Global Awareness (3 credits)		
Scientific Literacy (3 credits)		

* See list of courses.

[1](Requires Grade C or higher)

[2]Science/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 Major

Course		Grade
MA 151	Calculus I	
MA 152	Calculus II	
MA 201	Introduction to LaTeX	
MA 253	Calculus III	
MA 261	Linear Algebra	
MA 301	Mathematical Structures and Proofs	
MA 362	Abstract Algebra	
MA 371	Real Analysis	
MA 398	Senior Seminar	
MA___	One of MA 314, 318, 320, 325, 372	
MA ___	One of MA 254, 331, 332, 337, 341, 349	
MA ___	Mathematics Elective*	
MA ___	Mathematics Elective*	
*Mathematics electives must be at the 250-level or higher.		
Students may not get credit for both MA 279 and MA 280.		

Required Supporting Courses

Choose ONE of the following sequences:	Grade
Biology 111/113 & 112/114	
Chemistry 151/153 & 152/154	
Physics 151/153 & 152/154	
Economics 202 & 203	
Computer Science 111 & 112	

General Electives (number of credits vary)

		Grade

Checksheet Key

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

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SACRED HEART UNIVERSITY
College of Arts and Sciences

BS Mathematics - Traditional (Fall 2022 & Later)

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The Bachelor of Science program in Mathematics (Traditional) at Sacred Heart University is designed to prepare students for advanced studies or employement in areas where analytical and computational skills are in demand. The Mathematics curriculum was developed in accordance with the recommendations of the Committee on the Undergraduate Program in Mathematics of the Mathematical Association of America. It consists of courses which prepare our students for a variety of successful careers in finance, statistics, computer science, engineering, or education. The traditional concentration is ideal for students who plan to pursue a secondary education teaching certificate in mathematics, and for students who intend to pursue graduate studies in mathematics. The Mathematics major requires completion of 40 credits in Math plus a 6-8 credit sequence in a supporting discipline.

SUGGESTED FOUR YEAR SEQUENCE OF STUDY:

YEAR 1	SEMESTER I	YEAR 1	SEMESTER 2
FYWS 125 or	First Year Seminar	FYWS 125 or	First Year Seminar or
CTL-125	Critical Thinking	CTL-125	Critical Thinking
MA 151	Calculus I	MA 152	Calculus II
	Foundational Core		Foundational Core
	Foundational Core		Foundational Core
	Foundational Core		Foundational Core

YEAR 2	SEMESTER 3	YEAR 2	SEMESTER 4
MA 253	Calculus III	MA 261	Linear Algebra
MA 201	Introduction to LaTeX	MA 301	Mathematical Structures and Proofs
CIT 201	Catholic Intellectual Tradition Seminar I	CIT 202	Catholic Intellectual Tradition Seminar II
	Foundational Core		Liberal Arts Exploration
	Liberal Arts Exploration		Free Elective
	Liberal Arts Exploration		

YEAR 3	SEMESTER 5	YEAR 3	SEMESTER 6
MA 371	Real Analysis	MA 362	Abstract Algebra
MA	Mathematics Elective	MA	Mathematics Elective
	Required Supporting Course		Required Supporting Course
	Free Elective		Free Elective
	Free Elective		Free Elective

YEAR 4	SEMESTER 7	YEAR 4	SEMESTER 8
MA 398	Senior Seminar in Mathematics	MA	Mathematics Elective
MA	Mathematics Elective		Free Elective
	Free Elective		Free Elective
	Free Elective		Free Elective
	Free Elective		Free Elective

Note: Foundational Core should be completed by the end of sophomore year.