

Chemistry (Fall 2024 & Later)

Minimum 120 credits required for Bachelor's degree

Foundational Core (27-29 Credits) Grade

FYWS-125 ¹	First Year Seminar	
MA	Foundational Core Math course	
Choose 1 course from each area *		
² Natural/Physical Science		
Literature		
History	HI-100,102,110, or 115	
Arts/Design/Comm.		
Philosophy		
Theology/Relig		
Social/Behavioral Science		

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

CIT 201	CIT Seminar I	
CIT 202	CIT Seminar II	

Liberal Arts Explorations (LAE) (12 Credits Total)

Student must complete 4 courses from at least 2 different subjects and one course in each area. (see list on Registrar's Website - checksheets)		
Humanistic Inquiry (3 credits)		
Social and Global Awareness (3 credits)		
Scientific Literacy (3 credits)		
LAE in any area (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 Major

Grade

CH 151	General Chemistry 1	
CH 152	General Chemistry 2	
CH 153	General Chemistry 1 Lab	
CH 154	General Chemistry 2 Lab	
CH 221	Organic Chemistry 1	
CH 222	Organic Chemistry 2	
CH 223	Organic Chemistry 1 Lab	
CH 224	Organic Chemistry 2 Lab	
CH 252	Analytical Chemistry	
CH 254	Analytical Chemistry Lab	
CH 331	Physical Chemistry 1	
CH 333	Physical Chemistry 1 Lab	
CH 351	Instrumental Analysis	
CH 353	Instrumental Analysis Lab	
CH 355	Inorganic Chemistry	
CH 357	Inorganic Chemistry Lab	
CH 341	Biochemistry I	
CH 343	Biochemistry I lab	
&/OR	Research or Internship/Project (minimum 3 credits)	
	At least 7 credits from the following list	
CH 342	Biochemistry II	
CH 344	Biochemistry II Lab	
CH 332	Physical Chemistry II	
CH 334	Physical Chemistry II Lab	
CH 399	Special topics (can be repeated if different topic)	

Required Supporting courses

Grade

MA 151	Calculus 1	
MA 152	Calculus 2	
PY 151	Principles of Physics 1 (or sub w/ PY 111)	
PY 152	Principles of Physics 2 (or sub w/ PY 112)	
PY 153	Principles of Physics 1 Lab (or sub w/ PY 113)	
PY 154	Principles of Physics 2 Lab (or sub w/ PY 114)	

General Electives (number of credits vary)

Grade

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 Chemistry (Fall 2024 & Later)

Description of major or career/graduate school opportunities (Optional)

Recommended for:

Pre-Law

Graduate Studies Toward a PhD Degree

Work in Chemistry Industry

Pre-med (with additional biology classes)

SUGGESTED FOUR YEAR SEQUENCE OF STUDY:

YEAR 1	SEMESTER 1	YEAR 1	SEMESTER 2
FYWS 125		FYWS 125	
or	First Year Seminar OR	or	First Year Seminar OR
XX	Foundational Core	XX	Foundational Core
CH 151	General Chemistry 1	CH 152	General Chemistry 2
CH 153	General Chemistry 1 Lab	CH 154	General Chemistry 2 Lab
MA 151	Calculus 1	MA 152	Calculus 2
	Foundational Core		Foundational Core
	Foundational Core		

YEAR 2	SEMESTER 3	YEAR 2	SEMESTER 4
CIT 201	Catholic Intellectual Tradition Seminar	CIT 202	Catholic Intellectual Tradition Seminar
PY 151 or 111	Principles of Physics 1	PY 152 or 112	Principles of Physics 2
PY 153 or 113	Principles of Physics 1 lab	PY 154 or 114	Principles of Physics 2 Lab
CH 221	Organic Chemistry 1	CH 222	Organic Chemistry 2
CH 223	Organic Chemistry 1 Lab	CH 224	Organic Chemistry 2 Lab
	Foundational Core	CH 252	Analytical Chemistry
		CH 254	Analytical Chemistry Lab

YEAR 3	SEMESTER 5	YEAR 3	SEMESTER 6
CH 331	Physical Chemistry 1	CH 351	Instrumental Analysis
CH 333	Physical Chemistry 1 Lab	CH 353	Instrumental Analysis Lab
CH 341	Biochemistry I		Advanced Chemistry elective
CH 343	Biochemistry I Lab		Advanced Chemistry elective lab
	Liberal Arts Exploration		Foundational Core
	Liberal Arts Exploration		Liberal Arts Exploration

YEAR 4	SEMESTER 7	YEAR 4	SEMESTER 8
CH 355	Advanced Inorganic Chemistry	CH395/390	Research Project and/or Internship
CH 357	Advanced Inorganic Chemistry Lab		Advanced Chemistry Elective
CH395/390	Research Project and/or Internship		Elective
	Liberal Arts Exploration		Elective
	Elective		Elective
	Elective		