BS Coastal & Marine Science Major (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 cou	rse from each area *	
² Natural/Physi	cal Science	
Literature		
History	HI-100,102,110, or 115	
Arts/Design/C	omm.	
Philosophy		
Theology/Relig	g	
Social/Behavioral Science		

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

CIT 201	CIT Seminar I	
CIT 202	CIT Seminar II	
Liberal Arts E	Explorations (LAE) (12 Cred	its Total)
Student must	complete 4 courses from a	at least 2
different subj	ects and one course in eac	h area.
	egistrar's Website - checks	sheets)
Humanistic Inc	quiry (3 credits)	
Social and Glo	obal Awareness (3 credits)	
Scientific Liter	acy (3 credits)	
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LAE in any are	ea (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 <u>or</u> 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 Coastal & Marine Science major (42 credits) Grade BI 111 Concepts in Biology I BI 112 Concepts in Biology II BI 113 Concepts in Biology I Laboratory Concepts in Biology II Laboratory BI 114 Genetics & Evolution BI 201 BI 202 Ecology & Evolution BI 203 Genetics & Evolution Laboratory BI 204 Ecology & Evolution Laboratory Senior Seminar BI 399 Coastal & Marine Science Core BI 274 Coastal Management BI 278 or Coastal Ecology Marine Biology BI 260 GIS for Environmental Science BI 303 BI 390 or Supervised Research (3 credits) or BI 360 Internship (3 credits)

Three additional Biology courses comprising at least two in the Environmental area, and one in the Organismal area. One of the 3 courses must be at the 300 level. Two of the 3 courses must include labs (including one at the 300 level).

200/300 w/lab	
200/300	
300 w/lab	

	porting courses	Grade
CH 151	General Chemistry I	
CH 152	General Chemistry II	
CH 153	General Chemistry Laboratory I	
CH 154	General Chemistry Laboratory II	
CH 221/223	Organic Chemistry I with Lab	
MA 131	Statistics	
MA 140 or 151	PreCalculus or Calculus	
PY	Physics 100 level with Lab	
HI 251	Coastal Communities	
SO 254 or	Society & Economic Change	
SO 258	Society & the Environment	
EC 203	Principles of Macroeconomics	

General Electives (number of credits vary)	Grade

Checksheet Key

Course transferred & requirement satisfied
Requirement waived
Course transferred & requirement waived

SACRED HEART UNIVERSITY COLLEGE OF ARTS & SCIENCES BS Coastal & Marine Science (Fall 2024 & Later)

The Coastal and Marine Science major combines a rigorous grounding in the foundational principles of biological science at all scales of organization from molecules to ecosystems with significant coursework in coastal science, marine science, ecology, conservation biology, environmental restoration, and related areas of the biological sciences. The curriculum requires students to participate in "real world" experiences through fieldwork in courses, independent research projects, and/or internships with outside partner organizations. Students also have the opportunity to study abroad in Ireland during spring of their junior year.

The Coastal & Marine Science major provides the intellectual and technical skills necessary for a wide range of productive careers in a rapidly changing world. Majors are well prepared for numerous job opportunities in coastal/marine/ecological research and environmental management. Likewise, students are very well prepared to pursue graduate studies in a wide range of fields.

Students majoring in Coastal & Marine Science are required to complete 42 credits in Biology: 18 credits in the Biology core and 24 credits in the Coastal & Marine Science core. 32 credits are also required in the supporting areas of Chemistry, Mathematics, Physics, History, Sociology, and Economics.

YEAR 1	SEMESTER I	YEAR 1	SEMESTER 2
XX	First Year Writing Seminar or	FYWS 125 or XX	First Year Writing Seminar or
	Elective (Foundational Core)		Elective (Foundational Core)
BI 111/BI 113	Concepts in Biology I with Laboratory	BI112/BI114	Concepts in Biology II with Laboratory
CH 151/153	General Chemistry I with Laboratory	CH 152/154	General Chemistry II with Laboratory
MA140 or 151	PreCalculus or Calculus	MA 131	Statistics
	Elective (Foundational Core)		Elective (Foundational Core)
YEAR 2	SEMESTER 3	YEAR 2	SEMESTER 4
BI202/204	Ecology & Evolution with Laboratory	BI201/203	Genetics & Evolution with Laboratory
CH 221/223	Organic Chemistry I with Lab	CIT 202	Human Journey CIT II
CIT 201	Human Journey CIT I	SO 254 or SO 258	Sociology required course (LAE)
	Elective (Foundational Core)		Elective (Foundational Core)
	Elective (Foundational Core)		Elective (Foundational Core)
YEAR 3	SEMESTER 5	YEAR 3	SEMESTER 6
BI	Environmental Biology elective	BI 303	GIS for Environmental Applications
BI	Organismal Biology elective	BI	Environmental Biology elective
HI 251	History required course (LAE)	BI 278/279	Coastal Ecology
EC 203	Economics required couse (LAE)		Elective (Free)
	Elective (Free)		Elective (Free)
YEAR 4	SEMESTER 7	YEAR 4	SEMESTER 8
BI 390 or BI 360	Research or Internship	BI 274	Coastal Management
PY 1XX	Physics With Lab	BI 399	Senior Seminar
	Elective (Free)		Elective (Free)
			Elective (Free)
	Elective (Free)		

SUGGESTED FOUR YEAR SEQUENCE OF STUDY:

Note: Students must average 15 or more credits/semester to graduate on an 8 semester schedule.