

Marine Science, B.S.

Freshmen Pathway 2026-2027

Fall Freshmen Courses	Course or GE Title	Units	GE/Major
FYS 143 OR FYS 145 OR FYS 148	First Year Seminar that fulfills GE area 3B	3	3B, FYS
MATH 130 (w MATH 30 if needed)	Precalculus (w co-req support course)	5	2
HCOM 125 or SSCI 110	English Composition GE	3	1A
CHEM 109	Introductory Chemistry	3	5A
MSCI 185	Adventures in Marine Science	1	Elective
Total Units		15	
Spring Freshmen Courses	Course or GE Title	Units	GE/Major
CHEM 110 + CHEM 110L	General Chemistry I & Chem 1 Lab	5	5A,5C, Major
MATH 150	Calculus I	4	2, Major
HCOM 110	Fundamentals of Speaking & Listening	3	1C
Any 3A GE course	Arts General Education Course	3	3A
Total Units		15	
Fall Sophomore Courses	Course or GE Title	Units	GE/Major
CHEM 111 & CHEM 111L	General Chemistry II & Chem II Lab	5	Major
MSCI 270	Intro to Oceanography	3	Major
SBS 249 or HCOM 243	Ethnic Studies & US History	3	6, US 1
HCOM200, HCOM202, BIO131 or ENSTU130	Critical Thinking GE	3	1B
Total Units		14	
Spring Sophomore Courses	Course or GE Title	Units	GE/Major
BIO 211 & BIO 211L	Ecology, Evolution, Biodiversity, Plants & Lab	5	5B, 5C, Major
BIO 211D	Ecol, Evol, Biodiv & Plant Discussion	1	Elective
PHYS 220	Physics I	4	Major
SL210S or ED212S or HCOM260S	Civics & Lower Division Service Learning	3	DCSL & US2/3
Elective	Any Class	3	Elective
Total Units		16	

Fall Junior Courses	Course or GE Title	Units	GE/Major
BIO 210 & BIO 210L	Cell & Molec Bio & Animal Physio & Lab	5	Major
STAT 250	Applied Stats for Science & Tech	4	Major
ENSTU 280 or BUS 201 or 202	Environmental Econ or Macro or Micro Econ	3	4A, Major
Elective	Any Class	3	Elective
Total Units		15	
Spring Junior Courses	Course or GE Title	Units	GE/Major
MSCI 340 and MSCI 340L	Marine Ecology & Marine Ecology Lab	6	Major, GWAR
MSCI 345	Marine Biodiversity & Functional Morphology	3	Major, UD5
MSCI 370	Biological-Physical Oceanography	3	Major
MSCI 3XX, or BIO 330, BIO 340, BIO 380	MSCI Group A Elective	4	Major
Total Units		16	

Fall Senior Courses	Course or GE Title	Units	GE/Major
MSCI 350	Quantitative Marine Science	4	Major
MSCI 359S or BIO 379S or ENSTU 349S or ENSTU 384S or ENSTU 369S (spring only)	Upper Division Service Learning	3	Major, UDSL
ENVS 332	Intro to GIS/GPS	4	Major
MSCI 3XX or 4XX or BIO 330, BIO 340, BIO 380 or BIO 420	MSCI Group A Elective	3	Major
Elective	Any Class	1	Elective
Total Units		15	

Spring Junior Courses	Course or GE Title	Units	GE/Major
MSCI 430 or 437 or 445 or 455 or 472 (spring) or MSCI 475 or 485 (Fall)	MSCI Capstone Project Course	4	Major
MSCI 410	MSCI Group Capstone Seminar	1	Major
JAPN 350 or SPAN 350	World Culture & Language and UD3	3	UD3, WCL
Upper-Division Social & Behavior Sciences Course	UD4 Social & Behavioral Sciences	3	UD4
MSCI Group A or B Elective	MSCI Group A or B Elective	3	Major
Total Units		14	
Total Overall Units:		120	