

Marine Science 4-Year Pathway 2022-2023

Fall Freshman Courses (15 units total)	Course or GE Title	Units	GE/Major
FYS 143 or 144 or 145 or 147 or 148	FYS that fulfills GE area C2	3	C2, FYS
MATH 130 (w MATH 30 if needed)	Precalculus (w co-req support course)	5	B4
HCOM 120 or 125, or (CAD 102 + 90)	Critical Reading and Writing	3	A2
CHEM 109	Introductory Chemistry	3	B1
MSCI 185	Adventures in Marine Science	1	elective
Spring Freshman Courses (15 units total)	Course or GE Title	Units	GE/Major
HCOM 110	Fundamentals of Speaking & Listening	3	A1
MATH 150	Calculus I	4	B4, major
CHEM 110 +CHEM 110L	General Chemistry I & Chem 1 Lab	4+1	B1, B3, major
Any C1 GE course	Arts General Education course	3	C1
Fall Sophomore Courses (15 units total)	Course or GE Title	Units	GE/Major
HCOM200, HCOM202, BIO131 or ENSTU130	Critical Thinking GE	3	A3
CHEM 111 & CHEM 111L	General Chemistry II & Chem II Lab	4+1	Major
PHYS 220	Physics I with Lab	4	Major
SBS 249 or HCOM 243	US History with Ethnic Studies	3	F, US1
Spring Sophomore Courses (14 units total)	Course or GE Title	Units	GE/Major
BIO 210 & BIO 210L	Cell & Molec Bio & Animal Physio& Lab	4+1	B2, B3, Major
MSCI 270	Intro to Oceanography	3	Major
SL210S, ED212S, GS280S, HCOM260S, SBS212S	Civics/Service Learning GE course	3	DCSL, US2&3
HDFS 200, KIN 161, KIN 263, PSY 210	Area E Lifelong Lrng &Self-Devel	3	E
Fall Junior Courses (16 units total)	Course or GE Title	Units	GE/Major
BIO 211 & BIO 211L	Ecology, Evolution, Biodiv, Plants & Lab	4+1	Major
BIO 211D	Ecol, Evol, Biodiv & Plant Discussion	1	optional
STAT 250	Applied Stats for Science & Tech	4	Major
ENSTU 280 or BUS 201 or 202	Environ Econ or Macro or Microecon	3	DGSS, Major
Additional C1 or C2 course	Lower-division Arts or Humanities	3	C1 or C2
Spring Junior Courses (16 units total)	Course or GE Title	Units	GE/Major
MSCI 340	Marine Ecology	5	GWAR, major
MSCI 345	Marine Biodiversity	3	UDB, Major
MSCI 370	Biological-Physical Oceanography	4	Major
MSCI 3xx, BIO 330, BIO 340, BIO 380 or BIO 420	MSCI group A elective not taken previously	4	Group A elective
Fall Senior Courses (15 units total)	Course or GE Title	Units	GE/Major
MSCI 350	Quantitative Marine Science	4	Major
MSCI 359S or BIO 379S or ENSTU 3xxS	MSCI or BIO or ENSTU Svc Learn	3	UDSL, Major
ENVS 332	Intro GIS/GPS	4	Major
MSCI 3xx or 4xx or BIO 330, BIO 340, BIO 380 or BIO 420	MSCI group A elective not taken previously	4	Group A elective
Spring Senior Courses (14 units total)	Course or GE Title	Units	GE/Major
MSCI 430, MSCI 445, 455, 472, or 485	MSCI Capstone Project course	4	Major
MSCI 410	MSCI Group Capstone	1	Major
MSCI Group A or B elective	MSCI Group A or B elective	3	Major
SPAN 340 or 350 or JAPN 340 or 350	UD C with World Culture & languages	3	UDC, WCL
Any upper-division Social Science GE	UD Social Science GE	3	UDD
Total Units Marine Science 4-yr path		120	