

Recommended Undergraduate Course Sequence for Marine Sciences, Bachelors of Science

Freshman year

First semester (Fall)

<u>Course</u>	<u>Credits</u>
Introduction to Oceanography..... MARN 1002E/1003E	3 /4
General Chemistry I.....CHEM 1127Q	4
Pre-calculus or Calculus IMATH 1060Q or MATH 1131Q	3 /4
FYE (marine sciences freshman year experience – recommended)UNIV 1820 or 1810	1
“Freshman” English (English Comp) ENGL 1007/1010/1011	4
OR	
General Education/Content Area course..... *consult schedule of courses	<u>3</u>
	14 – 16 total credits

Second semester (Spring)

General Biology I BIOL 1107	4
General Chemistry II CHEM 1128Q	4
Calculus I or II MATH 1131Q or 1132Q	4
Gen Ed or Freshman English ENGL 1007/1010/1011	<u>3 /4</u>
	15-16 total credits

Sophomore Year

First semester (Fall)

General Biology II BIOL 1108	4
General Physics w/ Calculus PHYS 1401Q	4
OR	
General Physics w/o Calculus PHYS 1201Q	4
Calculus II..... MATH 1132Q **	4
Content Area General Education (such as ANTH, MUSI, DRAM)	3
Introduction to Scientific Diving (optional) MARN 1160	2
Related area if Math sequence complete (such as Chemistry, Math, Ecology, Geography, etc. >2000 level) ***	<u>3 -4</u>
	15-18 total credits

Second semester (Spring)

Physics IIPHYS 1402Q or PHYS 1202Q****	4
Marine Sciences and Society.....MARN 2801WE	3
Statistics STAT 1100Q	4
Gen Ed (such as macroeconomics) ECON 1201	3
and/or related area, and/or MARN elective	<u>3-4</u>
	14-18 Total credits

*See CLAS General Education Audit sheet. Content Area (CA) General Education (Gen Ed) courses must compose 1 each of CA1 A – D, 2 from CA 2, and 2 from CA 4, with at least one “international” from CA 4. Courses may satisfy more than one content area, such as ANTH 1000 but no more than one CA course may be used to satisfy CA 4. Total of 8 maximum required, 6 minimum courses if you “double dip”. The 2 courses required in Content Area 3 are already included in the MARN program requirements.

Junior year

First semester (Fall)

<u>Course</u>	<u>Credits</u>
Marine Sciences Fundamentals (1).....MARN 3001	4
MARN elective such as Marine Invertebrates, Plankton Ecology, Marine Mammals..... MARN 3012, 3017 or 3811	3
Related area (Environmental Law, Ecology, etc.)	3-4
Content area Gen Ed	3
And/Or	
Second related area or Independent Study MARN	2-3
Scientific Diving (or intro to Sci. Div., both optional).... MARN 1160 or 4160	<u>2-3</u>
	15 - 18 total credits

Second semester (Spring)

Marine Sciences Fundamentals (2)..... MARN 3002	3
Environmental Reaction and Transport MARN 3003Q	4
MARN elective(s)MARN 3014, 3000E, 3812	3-6
Related area	3
Content area Gen Ed	<u>3</u>
	16 total credits

Senior Year

First semester (Fall)

Measurement and Analysis in Coastal Ecosystems.....MARN 4001	4
MARN elective	3
General Education (s) (if still needed)	3
Related area (s) (if still needed)	3 -6
Scientific Diving (optional)MARN 4160	3 -6
Independent study (optional)	<u>1-3</u>
	15-18 total credits

Second semester (Spring)

CAPTSONE: Science and the Coastal Environment.....MARN 4002	3
Remaining MARN electives area 1 or 2	3
Gen Ed (any remaining)	3
AND/OR	
Related area (any remaining)	3
Independent Study/Senior Thesis (optional) ...MARN 3899/MARN 4896W	<u>3</u>
	12-18 Total credits

** If Math sequence is completed, use the opportunity to take a related area class or scientific diving.

*** Related areas must be ≥ 2000 and include Ecology and Evolutionary Biology (EEB), Organic Chemistry (CHEM), Economics of the Oceans (ECON), Maritime studies (MAST), Geography (GEOG), Maritime Law (POLS) and others.

**** Physics must be taken in sequence: 1401/1402 or 1201/1202. May not take 1402 after 1201.

Undergraduate Course Sequence for Marine Sciences, Bachelors of Arts

Freshman year

First semester (Fall)

<u>Course</u>	<u>Credits</u>
Introduction to Oceanography..... MARN 1002E/1003E	3 /4
General Chemistry I.....CHEM 1127Q	4
Pre-calculus or Calculus MATH 1060Q, MATH 1110Q or 1071Q	3
FYE (marine sciences freshman year experience – recommended).....UNIV 1810 or 1820	1
“Freshman” English (English Comp) ENGL 1007/1010/1011	4
OR	
General Education/Content Area course..... *see schedule of courses	<u>3</u>
	14 – 16 total credits

Second semester (Spring)

General Biology I BIOL 1107	4
General Chemistry II CHEM 1128Q	4
Calculus MATH 1071Q	3
Gen Ed or Freshman English ENGL 1007/1010/1011	<u>3 /4</u>
	14-15 total credits

Sophomore Year

First semester (Fall)

General Biology IIBIOL 1108	4
General Physics w/o CalculusPHYS 1201Q	4
Content Area General Education (such as ANTH, MUSI, DRAM)	3
Introduction to Scientific Diving (optional) MARN 1160	2
Related area if Math sequence complete (Such as Chemistry, Math, Ecology, Geography, etc. >2000 level) ***	<u>3 -4</u>
	15-18 total credits

Second semester (Spring)

“Marine Sciences and Society”MARN 2801WE	3
StatisticsSTAT 1100Q	4
2 CA Gen Eds (such as macroeconomics) ECON 1201	6
AND/OR	
Related area	<u>3-4</u>
	13-18 Total credits

*See CLAS General Education Audit sheet. Content Area (CA) General Education (Gen Ed) courses must be composed of 5 CA 1 courses, at least 1 from each of CA 1 A – D may include CA 1 E. 2 from CA 2, and 2 from CA 4, with at least one “international” from CA 4. Courses may satisfy more than one content area, such as ANTH 1000, but not more than one course from CA 2 may be used for content area 4. Total of 9 maximum required (as a science major), 7 minimum if you “double dip”. The 2 courses required in Content Area 3 are already included in the MARN program requirements.

Junior year

First semester (Fall)

<u>Course</u>	<u>Credits</u>
Marine Sciences FundamentalsMARN 3001	4
MARN elective such as Marine Invertebrates, Plankton Ecology, Marine Mammals..... MARN 3012, 3017 or 3811	3
Related area (Environmental Law, Ecology, etc.)	3
Content area Gen Ed	3
And/Or	
Second related area or Independent Study MARN course	2-3
Scientific Diving (or intro to Sci. Div., both optional).... MARN 1160 or 4160	<u>2-3</u>
	15 - 18 total credits

Second semester (Spring)

Marine Sciences Fundamentals MARN 3002	3
MARN elective(s)MARN 3000E, 3014, 3015, 3812	3-6
2 Related areas	3-6
Content area Gen Ed	<u>3-6</u>
	15 total credits

Senior Year

First semester (Fall)

Measurement and Analysis in Coastal Ecosystems.....MARN 4001	4
MARN elective	3
General Education (s) (if still needed)	3
1-2 Related area (s)	3 -6
Scientific Diving (optional)MARN 4160	2-5
Independent study (optional)	<u>1-3</u>
	15-18 total credits

Second semester (Spring)

Science and the Coastal Environment.....MARN 4002	3
Remaining MARN electives MARN 4010, 4018, 4050, 4066, 3995	3
Gen Ed (any remaining)	3
AND/OR	
Related area (any remaining)	3
Independent Study/Senior Thesis (optional) ...MARN 3899/MARN 4896W	<u>3</u>
	12-18 Total credits

** If Math sequence is completed, use the opportunity to take a related area class or scientific diving.

*** Related areas must be ≥ 2000 and include Ecology and Evolutionary Biology (EEB), Organic Chemistry (CHEM), Economics of the Oceans (ECON), Maritime studies (MAST), Geography (GEOG), Maritime Law (POLS) and others.