

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 1002/1003	3 /4
General Chemistry I.....	CHEM 1127Q	4
Pre-calculus or Calculus I .....	MATH 1060Q or MATH 1131Q	3 /4
FYE (marine sciences freshman year experience – recommended).....	UNIV 1820	1
“Freshman” English (English Comp) .....	ENGL 1010 or 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 I or II .....	MATH 1131Q or 1132Q	4
Gen Ed or Freshman English .....	*/ ENGL 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 (Storrs and AP .....	PHYS 1401Q	4
OR		
General Physics w/o Calculus (not at AP, Storrs only) 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 II .....	PHYS 1402Q or PHYS 1202Q ****	4
Marine Sciences I or Mar. Sci. Seminar.....	MARN 2002/MARN 2801W	3
Statistics .....	STAT 1100Q	4
Gen Ed (such as macroeconomics) .....	ECON 1201	3
AND/OR		
Related area		<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. Total of 8 maximum required, 6 minimum if you “double dip”.

**Junior year**

**First semester (Fall)**

<u>Course</u>	<u>Credits</u>
Marine Sciences II ..... 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
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 Seminar <b><u>OR</u></b> ..... MARN 2801W/	3
New 3000 level MARN course (TBD)	
Environmental Reaction and Transport ..... MARN 3003Q	4
MARN elective(s) .....MARN 2060, 3000, 3014, 3015, 3505	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)**

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  $\geq 2000$  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 1002/1003	3 /4
General Chemistry I.....CHEM 1127Q	4
Pre-calculus or Calculus ..... MATH 1060Q, MATH 1110Q or 1171Q	3
FYE (marine sciences freshman year experience – recommended).....UNIV 1820	1
“Freshman” English (English Comp) ..... ENGL 1010 or 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 1110Q or 1171Q	3
Gen Ed or Freshman English ..... */ ENGL 1010/1011	<u>3 /4</u>
	14-15 total credits

### Sophomore Year

#### **First semester (Fall)**

General Biology II ..... BIOL 1108	4
General Physics w/ Calculus (Storrs and AP ..... PHYS 1401Q	4
OR	
General Physics w/o Calculus (not at AP, Storrs only) PHYS 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)**

Physics II .....PHYS 1402Q or PHYS 1202Q ****	4
Marine Sciences I or Mar. Sci. Seminar..... MARN 2002/MARN 2801W	3
Statistics ..... STAT 1100Q	4
Gen Ed (such as macroeconomics) ..... ECON 1201	3
AND/OR	
Related area	<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. Total of 8 maximum required, 6 minimum if you “double dip”.

**Junior year**

**First semester (Fall)**

<u>Course</u>	<u>Credits</u>
Marine Sciences II ..... 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
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 Seminar <b><u>OR</u></b> ..... MARN 2801W/ New 3000 level MARN course (TBD)	3
MARN elective(s) .....MARN 2060, 3000, 3014, 3015, 3505	3-6
2 Related areas	6
Content area Gen Ed	<u>3</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  $\geq$  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.

Minimum credits completed for B.S. by following above recommended sequence:

1000 level requirements: math, biology, chemistry, physics, statistics:	36-39 credits
6 General Education content area classes minimum:	18 credits
Related area classes without a minor/with minor	12/15 credits
Core requirements of the major	20 credits
<u>MARN electives (3)</u>	<u>9 credits</u>
Total credits	95 - 101

More commonly:

8 content area courses (no double dipping)	+ 6
W course outside of major if not part of a content area double dip	+ 4
<u>At least one dive class</u>	<u>+ 2-5</u>

Total credits = 95 to 113 (116 with adv. dive class)

This leaves anywhere from 25 to just 4 extra credits for additional MARN classes, research, or an additional minor.

This drops further for students who come in without the language requirement. They may take as many as  $95/98 + 3 + 6 + 16 = 120$  to 123 credits. Average of 15/semester.

The low end of the credit range is for students who are working most efficiently at with course selection.