

www.mainemaritime.edu/ocean-studies/

Faculty Representative



Jessica F. Muhlin, Ph.D.
Associate Professor of Marine Biology
Chair of Ocean Studies
jessica.muhlin@mma.edu

Student Ambassadors



Abby L'Abbe
Marine Science (Class of 2020)
NROTC, USS Bonhomme Richard
Cross country team, IT, Admissions



Phoebe Churney
Marine Biology/SVO (Class of 2023)
Dive Teaching Assistant

Ice breaker: What do you love about the ocean?



One department, six majors

Marine Biology

Focus on organisms of the sea (ecology, physiology, cell biology, genetics)

(MB)

Coastal and Marine Environmental Science

Focus on human impacts of the coastal ocean & its future (CMES)

Oceanography

Focus on physical, chemical, biological and geological processes

(OCE)

Dual Major Option

Ocean Studies offers all majors the opportunity to pursue a dual major with **Small Vessel Operations**

AAUS Scientific Diving Certification













What we offer: OS majors

What if I don't know which major is for me?

Marine Biology Coastal and Marine Environmental Science Oceanography

Common First Year

Different Second/Third Year

Research in Junior/Senior Semesters







Student perspective

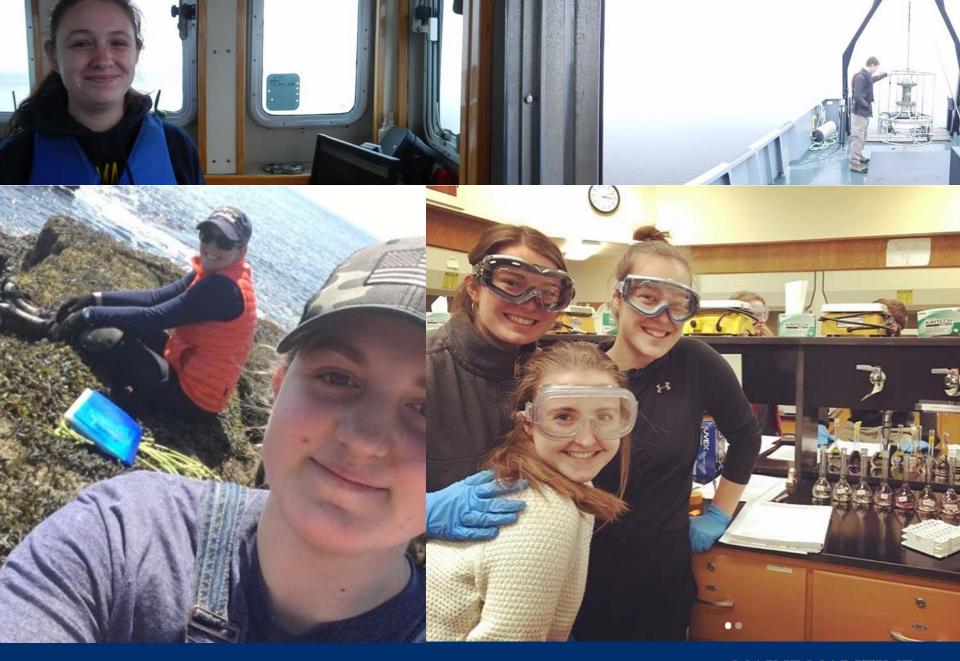




Who we are: a community of ocean scientists



Who we are: immersive, hands-on



Who we are: student-centered



Where you will go: ocean laboratory



Where you will go: summer experiences

Representative Research Science Congressional Trainer Manager Collection Submarine Researcher Commander Data
Submarine Researcher Oceanographer Field Binette Insurance Marine Calibration Doctoral Geospatial Specialist Service Fisheries Vessel Biologist

Director Aquarist Logistics Tactics Analyst Alliances

Corps Technicis Vessel Biologist

Natural Educator/Intern Analyst Alliances

Corps Technicis Octation Pipette Pipette Geospatial Pipette Pipe Associate Resource Leader/Supervisor Officer

Lab Chief General Fishery Survey Rov Hydrographic Aquarium Medical Specialist/Program Northeast Educator NOAA Customer Language Team Teacher Assistant

Where you will go: professions word cloud

Looking forward to seeing you on campus!

Available for Q & A at 7:30pm

Can Zoom one-on-one with any student or parent





Where you will go: graduate stories

Ocean Studies Curricula Temporary link on Ocean Studies website

www.mainemaritime.edu/ocean-studies/

SECOND YEAR - MB

	Fall			Spring			Fall		Spring		
Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credit s
Bi101	General Biology I	4.0	Bi102	General Biology II	4.0	Bi220	Marine Botany	4.0	Bi210	Marine Zoology	4.0
Ch210	Chemistry I	4.0	Cl-220	Chamiatan II	4.0		Writing Intensive				
Ms101	Pre-Calculus	4.0	Ch220	Chemistry II	4.0	Ch310	Introduction to	4.0	Os212	Chemical Oceanography	4.0
Os101	Introduction to Oceanography and	4.0	Ms150	Calculus	4.0		Organic Chemistry Writing Intensive		00010	onement o comingraphy	
	Environmental Science		Hc111	Composition	3.0	Hc220	Humanities I	3.0	Os203	Design and Applied Statistics	4.0
							Hum-SS elective	3.0	Ps102	Tech Physics I	4.0
			Os001	Seminar 1	1.0		Train 55 elective	5.0			
Fy100	First Year Experience	1.0		0 1 1 100	â. 	Os002	Seminar 2	1.0	Os003	Seminar 3	1.0
Os000	Seminar 0	0.0	PeXXX	Swim-related PE course	0.5						
05000							Total	15.0		Total	17.0
	Total	17.0		Total	16.5		10tai	15.0		Iotai	17.0

THIRD YEAR - MB

FOURTH YEAR - MB

	Fall			Spring			Fall			Spring	
Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credits
Bi201	Ecology	4.0	Os400	Research Prep	4.0	Os401	Research	4.0	Bi312	Genetics	3.0
Bi301	Marine Organism Physiology	4.0	Bi308	Cell Biology	4.0	Hc230	Humanities II	3.0		Hum-SS Elective	3.0
Os210	Physical Oceanography	4.0		Depart./Program Elective	3.0-4.0		Free Elective	3.0		Free Elective	3.0
Ps301	Tech Physics III	4.0		Depart./Program Elective	3.0-4.0		Hum-SS Elective	3.0		Free Elective	3.0
Os004	Seminar 4	1.0	OS005	Seminar 5	1.0						
	Total	17.0	PeXX X	Any PE course	0.5	Os006	Seminar 6	1.0			
ı				Total	15.5- 16.5		Total	14.0		Total	12.0

Marine Biology (MB) curriculum MAINE MARITIME ACADEMY

FIRST YEAR - MB/SVO

SECOND YEAR - MB/SVO

	Fall			Spring			Fall			Spring			
Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credit s		
Bi101	General Biology I	4.0	Bi102	General Biology II	4.0	Bi220	Marine Botany Writing Intensive	4.0	Bi210	Marine Zoology	4.0		
Ch210	Chemistry I	4.0				Ch310	Ch310 Introduction to		Os212	Chemical Oceanography	4.0		
Ms101	Pre-Calculus	4.0	Ch220	Chemistry II	4.0		Organic Chemistry Writing Intensive		00212	one mem o comograpity			
Os101	Introduction to	4.0				Hc220	Humanities I	3.0	Os203	Design and Applied	4.0		
	Oceanography and Environmental Science		Ms150	Calculus	4.0	Ns101	Introduction to	2.0		Statistics			
	Latvirolimental belefice						Nautical Science		Ps102	Tech Physics I	4.0		
			Hc111	Composition	3.0		Hum/SS Elective	3.0	OS003	Seminar 3	1.0		
Fy100	First Year Experience	1.0				Os002	Seminar 2	1.0	USCG2	Firefighting live burn	0.0		
,	•		Os001	Seminar 1	1.0	Pe100	Basic Sailing	0.5	USCG2	rirengnung iive burn	0.0		
Os000	Seminar 0	0.0	OS001	Semmar 1	1.0				USCG3	Lifeboat Exam	0.0		
Pe114	Ocean Survival	0.5			44.0	USCG1	Firefighting	0.0		m . 1	47.0		
	Total	al 17.5		Total		Total	16.0					Total	17.0
	Total	17.	17.0					Total	17.5				

THIRD YEAR - MB/SVO

FOURTH YEAR - MB/SVO

	111	IKD IEA	K-MD/	340		FOURTH TEAR - MB/SVO						
	Fall			Spring			Fall			Spring		
Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credits	
Bi301	Marine Organism Physiology	4.0	Os400	Research Prep	4.0	Os401	Research	4.0	Bi312	Genetics	3.0	
Bi201	Ecology	4.0	Bi308	Cell Biology	4.0	Hc230	Humanities II	3.0		Dept./Program Elective	3.0-4.0	
			D1308	Cell blology	4.0					Free Elective	3.0	
Os210	Physical Oceanography	4.0		Depart./Program Elective	3.0-4.0		Hum-SS Elective	3.0		Free Elective	3.0	
Ps301	Tech Physics III 4.0	Tech Physics III 4.0		Depart./Program	3.0-4.0	Os006	Seminar 6	1.0		Free Elective	3.0	
				Elective						Total	15.0-	
Os004	Seminar 4	1.0	Ns241	Seamanship	2.0	Ns132	Small Craft	3.0			16.0	
03001	Selfiniar 1	1.0					Technology			Summer		
Ns103	Introduction to Vessel Operations	2.0	Os005	Seminar 5	1.0	Ns135	Small Craft Construction	3.0	Course Number	Course Title	Credits	
	Total	19		Total	17.0		Total	17.0	Co223	SVO Coop	3.0	

FIFTH YEAR - MB/SVO

	Fall			Spring	
Course Number	Course Title	Credits	Course Number	Course Title	Credits
Ns122	Cargo I	3.0	Ns221	Meteorology	3.0
Ns232	Marine System	3.0	Ns262	Navigation Rules	3.0
NI 071	//	2.0	Ns292	Electronic Navigation	3.0
Ns271	Terrestrial Navigation	3.0	Ns293	Electronic Navigation	1.0
Ns272	Terrestrial Navigation	1.0		Lab	
	Lab		Ns298	Topics in Small Vessel Operations	2.0
Nsxxx	SVO Departmental Elective	3.0	Ns299	200 Ton License seminar	1.0
	Total	13.0		Total	13.0

FIRST YEAR - CMES

SECOND YEAR - CMES

	Fall			Spring			Fall			Spring		
Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Cred	
Bi101	General Biology I	4.0	Bi102	General Biology II	4.0		Hum-SS elective	3.0	Ps102	Tech Physics I	4.0	
Ch210	Chemistry I	4.0	Ch220	Chemistry II	4.0	Hc220	Humanities I	3.0	Os212	Chemical Oceanography	4.0	
Ms101 Os101	Pre-Calculus Introduction to	4.0	Ms150	Calculus	4.0	Os204	Physical Geology	4.0	Os203	Design and Applied Statistics	4.0	
	Oceanography and Environmental Science		Hc111	Composition	3.0	En202	Introduction to Sustainability	3.0	Os225	Land Margin Ecosystems	4.0	
Fy100	First Year Experience	1.0	Os001	Seminar 1	1.0							
Os000	Seminar 0	0.0				0.000			0.002	0 2	1.0	
		17.0	PeXXX	Swim-related PE course	0.5	Os002	Seminar 2	1.0	Os003	Seminar 3	1.0	
				Total	16.5		Total	14.0		Total	17.0	

THIRD YEAR - CMES

FOURTH YEAR - CMES

	Fall			Spring			Fall			Spring	
Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Cı
Oc210	Physical Oceanography	4.0	Os400	Research Prep	4.0	Os401	Research	4.0		Dept./Program Elective	3.0
Bi201	Ecology	4.0	Ge221	GIS	4.0	Hc230	Humanities II	3.0		Hum-SS Elective	3.0
Os230	Global Environmental Change Writing Intensive	3.0		Hum-SS Elective	3.0		Depart./Program Elective	3.0		Free Elective	3.0
Ps301	Tech Physics III	4.0		Depart./Program Elective	3.0	Os321	Coastal Resource Management	3.0		Free Elective	3.0
Os004	Seminar 4	1.0	Os005	Seminar 5	1.0						
PeXXX	Any PE course	PE course 0.5		15.0	Os006	Seminar 6	1.0				
	Total	16.5		Total	15.0		Total	14.0		Total	12.0

FIRST YEAR - CMES/SVO

	Fall			Spring	
Course Number	Course Title	Credits	Course Number	Course Title	Credits
Bi101	General Biology I	4.0	Bi102	General Biology II	4.0
Ch210	Chemistry I	4.0	D1102	General blology II	4.0
Ms101	Pre-Calculus	4.0	Ch220	Chemistry II	4.0
Os101	Introduction to	4.0		,	
	Oceanography and Environmental Science		Ms150	Calculus	4.0
			Hc111	Composition	3.0
Fy100	First Year Experience	1.0			
Os000	Seminar 0	0.0	Os001	Seminar 1	1.0
Pe114	Ocean Survival	0.5		-	
	Total	17.5		Total	16.0

THIRD YEAR - CMES/SVO

	Fall			Spri
Course Number	Course Title	Credits	Course Number	Course '
Oc210	Physical Oceanography	4.0	Os400	Research Prep
Bi201	Ecology	4.0	Ge221	GIS
				Hum-SS Electiv
Os230	Global Environmental Change Writing Intensive	3.0		Depart./Program
Ps301	Tech Physics III	4.0	Os005	Seminar 5
Os004	Seminar 4	1.0		
Ns103	Introduction to Vessel Operations	2.0	Ns241	Seamanship
PeXXX	Any PE course	0.5	PeXXX	Any PE course
	Total	18.5		Total

SECOND YEAR - CMES/SVO

	Fall			Spring
Course Number	Course Title	Credits	Course Number	Course Title
	Hum-SS elective	3.0	Ps102	Tech Physics I
Hc220	Humanities I	3.0	Os212	Chemical Oceanography
Os204	Physical Geology	4.0	Os203	Design and Applied Statistics
En202	Introduction to Sustainability	3.0	Os225	Land Margin Ecosystems
Os002	Seminar 2	1.0		
Ns101	Introduction to Nautical Science	2.0	Os003	Seminar 3
Pe100	Basic Sailing	0.5	USCG2	Firefighting live burn
USCG1	Firefighting	0.0	USCG3	Lifeboat Exam
	Total	16.5		Total

FOURTH YEAR - CMES/SVO

	Fall			Spring	
Course Number	Course Title	Credits	Course Number	Course Title	Credits
Os401	Research	4.0		Dept./Program Elective	3.0
Hc230	Humanities II	3.0		Dept./Program Elective	3.0
				Hum-SS Elective	3.0
Os321	Coastal Resource Management	3.0		Free Elective	3.0
Os006	Seminar 6	1.0		Free Elective	3.0
Ns132	Small Craft	3.0		Total	15.0
	Technology			Summer	
Ns135	Small Craft Construction	3.0	Course Number	Course Title	Credits
	Total	17.0	Co223	SVO Coop	3.0

FIFTH YEAR - CMES/SVO

	Fall		Spring				
Course Number	Course Title	Credits	Course Number	Course Title	Credits		
Ns122	Cargo I	3.0	Ns221	Metereology	3.0		
Ns232	Marine System	3.0	Ns262	Navigation Rules	3.0		
			Ns292	Electronic Navigation	3.0		
Ns271	Terrestrial Navigation	3.0	Ns293	Electronic Navigation	1.0		
Ns272	Terrestrial Navigation	1.0		Lab			
	Lab		Ns298	Topics in Small Vessel Operations	2.0		
Nsxxx	SVO Departmental Elective	3.0	Ns299	200 Ton License seminar	1.0		
	Total	13.0		Total	13.0		

FIRST YEAR - OCE

SECOND YEAR - OCE

	Fall			Spring			Fall			Spring		
Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credits	
Bi101	General Biology I	4.0	Bi102	General Biology II	4.0	Bi220 or	Marine Botany or	4.0	Os211	Geological Oceanography	3.0	
Ch210	Chemistry I	4.0		37		Ch310	Organic Chemistry					
Ms101	Pre-Calculus	4.0	Ch220	Chemistry II	4.0		Writing Intensive		0.040	61 1 10 1	4.0	
	Introduction to Oceanography and Environmental Science	4.0	Ch220	Chemistry II	4.0	Ns101	Introduction to Nautical Science	2.0	Os212	Chemical Oceanography	4.0	
		nvironmental	Ms150	Calculus	4.0	Hc220	Humanities I	3.0	Os203	Design and Applied Statistics in Science	4.0	
			Hc111	Composition	3.0	Os204	Physical Geology	4.0	Ps102	Tech Physics I	4.0	
							Free Elective	3.0	Os003	Seminar 3	1.0	
Fy100	First Year Experience	1.0	Os001	Seminar 1	1.0							
Os000	Seminar 0			1.0	Os002	Seminar 2	1.0	PeXX	Swim-related PE	0.5		
	Total	17.0		Total	16.0					Total	16.5	
	Totai	17.0					Total	17.0				

THIRD YEAR - OCE

FOURTH YEAR - OCE

	Fall			Spring			Fall			Spring	
Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credits	Course Number	Course Title	Credits
Os213	Biological Oceanography	3.0	Os400	Research Prep	4.0	Os401	Research	4.0		Depart./Program Elective	3.0-4.0
	Hum/SS Elective	3.0		Depart./Program Elective	3.0-4.0	Hc230	Humanities II	3.0		Free Elective	3.0
Ps301	Tech Physics III	4.0		Hum/SS Elective	3.0		Depart./Program Elective	3.0-4.0		Free Elective	3.0
Os210	Physical Oceanography	4.0		,			Hum-SS Elective	3.0		Free Elective	3.0
Os004	Seminar 4	1.0		Depart./Program Elective	3.0-4.0						
PeXXX	Any PE course (optional)	0.5	OS005	Seminar 5	1.0	Os006	Seminar 6	1.0			
	Total	15.5		Total	14-16		Total	14-15		Total	12-13

FIRST YEAR - OCE/SVO

SECOND YEAR - OCE/SVO

	Fall		Spring				
Course Number			Course Number	Course Title	Credits		
Bi101	General Biology I	4.0	Bi102	General Biology II	4.0		
Ch210	Chemistry I	4.0	D1102	General biology II	4.0		
Ms101	Pre-Calculus	4.0	Ch220	Chemistry II	4.0		
Os101	Introduction to	4.0					
	Oceanography and Environmental Science		Ms150	Calculus	4.0		
			Hc111	Composition	3.0		
Fy100	First Year Experience	1.0					
Os000	Seminar 0	0.0	Os001	Seminar 1	1.0		
Pe114	Ocean Survival	0.5					
	Total	17.5		Total	16.0		
Os000	Seminar 0 Ocean Survival	0.0		Seminar 1	1.0		

	Fall			Spring
Course Number	Course Title	Credits	Course Number	Course Title
Bi220 or Ch310	Marine Botany or Introduction to	4.0	Os211	Geological Oceanography
	Organic Chemistry Writing Intensive		Ps102	Tech Physics I
Hc220	Humanities I	3.0	Os212	Chemical Oceanography
Ns101	Introduction to Nautical Science	2.0	Os203	Design and Applied Statistics in Science
Os214	Physical Geology	4.0	Ns241	Seamanship
	Hum-SS elective	3.0	Os003	Seminar 3
Os002	Seminar 2	1.0	USCG	Firefighting live burn
Pe100	Basic Sailing	0.5	2	
USCG1	Firefighting	0.0	USCG 3	Lifeboat Exam
	Total	17.5		Total

THIRD YEAR - OCE/SVO

FOURTH YEAR - OCE/SVO

	Fall		Spring					
Course Number	Course Title	Credits	Course Number	Course Title	Credit			
Os213	Biological Oceanography	3.0	Os400	Research Prep	4.0			
Os210	Physical Oceanography	4.0		Depart./Program Elective	3.0-4.0			
	Hum/SS Elective	3.0		Free Elective	3.0			
Ps301	Tech Physics III	4.0		Depart./Program	3.0-4.0			
Os004	Seminar 4	1.0		Elective				
Ns103	Introduction to Vessel Operations	2.0	OS005	Seminar 5	1.0			
	Total	17		Total	14-16			

	Fall			Spring					
Course Number	Course Title	Credits	Course Number	Course Title	Credits				
Os401	Research	4.0		Dept./Program Elective	3.0-4.0				
				Free Elective	3.0				
Hc230	Humanities II	3.0		Free Elective	3.0				
	Hum-SS Elective	3.0		Free Elective	3.0				
	Dept./Program Elective	3.0-4.0		Total	12-13				
Os006	Seminar 6	1.0							
Ns132	Small Craft Technology	3.0		Summer					
Ns135	Small Craft Construction	3.0	Course Number	Course Title	Credits				
	Total	17.0	Co223	SVO Coop	3.0				

Credits

3.0

4.0

4.0

0.0

0.0

18.0

FIFTH YEAR - OCE/SVO

	Fall			Spring	
Course Number	Course Title	Credits	Course Number	Course Title	
Ns122	Cargo I	3.0	Ns221	Metereology	
Ns232 Marine Sy	Marine System	3.0	Ns262	Navigation Rules	3
			Ns292	Electronic Navigation	ion 3.0
Ns271	Terrestrial Navigation	3.0			
			Ns293	Electronic Navigation Lab	1
Ns272	Terrestrial Navigation	1.0		Lab	
	Lab		Ns298	Topics in Small Vessel Operations	2
Nsxxx	SVO Departmental Elective	3.0	Ns299	200 Ton License seminar	1
	Total	13.0		Total	1