B.S. IN MARINE AND ENVIRONMENTAL BIOLOGY AND POLICY

Major Requirements/Biology - MEBP (39 credits) BY-119	Code	Title	Credits			
BY-109 Introduction to Biodiversity and Evolution (Satisfies Natural Sciences in General Education) BY-110 Introduction to Cell and Molecular Biology 4 BY-205 Zoology 3 BY-214 Botany 3 BY-216 Introduction to Genetics 4 (Satisfies Technological Literacy (TL) in General Education) BY-220 Environmental Biology and Policy 3 BY-341 Marine Biology 4 BY-342 Coastal Zone Management 3 BY-395 Seminar in Marine and Environmental 3 Biology (Satisfies Reasoned Oral Discourse (RD) in General Education) BY-440 Ecology 4 BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course 7 Type: MEBP Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-324 Applied Microbiology BY-324 Applied Microbiology BY-325 Laboratory in Molecular and Cellular Biology BY-326 Ecosystems Analysis BY-420 Ecosystems Analysis BY-420 Ecosystems Analysis BY-420 Ecosystems Analysis BY-420 Environmental Chemistry CE-220 Environmental Chemistry Laboratory CE-220 Environmental Chemistry Laboratory CE-221 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	Major Requir	ements/Biology - MEBP (39 credits) ¹				
(Satisfies Natural Sciences in General Education) BY-110 Introduction to Cell and Molecular Biology 4 BY-205 Zoology 3 BY-214 Botany 3 BY-216 Introduction to Genetics 4 (Satisfies Technological Literacy (TL) in General Education) BY-220 Environmental Biology and Policy 3 BY-341 Marine Biology 4 BY-342 Coastal Zone Management 3 BY-395 Seminar in Marine and Environmental 3 Biology (Satisfies Reasoned Oral Discourse (RD) in General Education) BY-440 Ecology 4 BY-442 Natural Resource Conservation and Management 3 Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course 7 Type: MEBP Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-324 Applied Microbiology BY-324 Applied Microbiology BY-325 Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry Laboratory CE-220 Environmental Chemistry Laboratory CE-221 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-119	Introductory Biology Major Seminar	1			
BY-110 Introduction to Cell and Molecular Biology BY-205 Zoology 3 3 BY-214 Botany 3 3 BY-216 Introduction to Genetics 4 (Satisfies Technological Literacy (TL) in General Education) BY-220 Environmental Biology and Policy 3 BY-341 Marine Biology 4 BY-342 Coastal Zone Management 3 BY-395 Seminar in Marine and Environmental Biology (Satisfies Reasoned Oral Discourse (RD) in General Education) BY-440 Ecology BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-324 Applied Microbiology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220 Environmental Chemistry Laboratory CE-221 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-109	4				
BY-205 Zoology 3 BY-214 Botany 3 BY-216 Introduction to Genetics 4 (Satisfies Technological Literacy (TL) in General Education) BY-220 Environmental Biology and Policy 3 BY-341 Marine Biology 4 BY-342 Coastal Zone Management 3 BY-395 Seminar in Marine and Environmental Biology (Satisfies Reasoned Oral Discourse (RD) in General Educaiton) BY-440 Ecology 4 BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course 15 rype: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-324 Applied Microbiology BY-324 Applied Microbiology BY-324 Applied Microbiology BY-325 Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry Laboratory CE-240 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS)	(Satisfies Natural Sciences in General Education)					
BY-214 Botany BY-216 Introduction to Genetics (Satisfies Technological Literacy (TL) in General Education) BY-220 Environmental Biology and Policy 3 BY-341 Marine Biology 4 BY-342 Coastal Zone Management 3 BY-395 Seminar in Marine and Environmental Biology (Satisfies Reasoned Oral Discourse (RD) in General Education) BY-440 Ecology 4 BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-325 Laboratory in Molecular and Cellular Biology BY-426 Ecosystems Analysis BY-427 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220 Environmental Chemistry CE-220 Lenvironmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-110	Introduction to Cell and Molecular Biology	4			
BY-216 Introduction to Genetics (Satisfies Technological Literacy (TL) in General Education) BY-220 Environmental Biology and Policy 3 BY-341 Marine Biology 4 BY-342 Coastal Zone Management 3 BY-395 Seminar in Marine and Environmental 3 Biology (Satisfies Reasoned Oral Discourse (RD) in General Education) BY-440 Ecology 4 BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course 15 Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-325 Laboratory in Molecular and Cellular Biology BY-426 Ecosystems Analysis BY-427 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220 Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-205	Zoology	3			
(Satisfies Technological Literacy (TL) in General Education) BY-220 Environmental Biology and Policy 3 BY-341 Marine Biology 4 BY-342 Coastal Zone Management 3 BY-395 Seminar in Marine and Environmental 3 Biology (Satisfies Reasoned Oral Discourse (RD) in General Education) BY-440 Ecology 4 BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course 15 Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 lethyology BY-324 Applied Microbiology BY-351 Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-421 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220 Environmental Chemistry CE-220 Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-236 Marine Applications of Geographic	BY-214	Botany	3			
BY-220 Environmental Biology and Policy BY-341 Marine Biology BY-342 Coastal Zone Management BY-395 Seminar in Marine and Environmental BY-395 Seminar in Marine and Environmental BY-396 Seminar in Marine and Environmental BY-400 Ecology BY-440 Ecology BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 lethyology BY-324 Applied Microbiology BY-325 Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220 Environmental Chemistry CE-220 Environmental Chemistry Laboratory CE-221 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-216	Introduction to Genetics	4			
BY-341 Marine Biology 4 BY-342 Coastal Zone Management 3 BY-395 Seminar in Marine and Environmental Biology 4 BY-395 Seminar in Marine and Environmental Biology 6 (Satisfies Reasoned Oral Discourse (RD) in General Educaiton) BY-440 Ecology 4 BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course 15 Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-324 Applied Microbiology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry Laboratory CE-220 Environmental Chemistry Laboratory CE-220 Environmental Chemistry Il AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	(Satisfies Tech	hnological Literacy (TL) in General Education)				
BY-342 Coastal Zone Management 3 BY-395 Seminar in Marine and Environmental Biology (Satisfies Reasoned Oral Discourse (RD) in General Educaiton) BY-440 Ecology 4 BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course 15 Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-234 Marine Applications of Geographic	BY-220	Environmental Biology and Policy	3			
BY-395 Seminar in Marine and Environmental Biology (Satisfies Reasoned Oral Discourse (RD) in General Educaiton) BY-440 Ecology 4 BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course 15 Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-322 Icthyology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220 Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-341	Marine Biology	4			
Biology (Satisfies Reasoned Oral Discourse (RD) in General Educaiton) BY-440 Ecology 4 BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course 15 Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-325 Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220 Environmental Chemistry CE-221 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-342	Coastal Zone Management	3			
BY-440 Ecology 4 BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course 15 Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-395		3			
BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course 15 Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-325 Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic	•	· · ·				
BY-442 Natural Resource Conservation and Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course 15 Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-325 Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic	,		1			
Management MEBP Electives (15 credits) Select 15 credits from courses designated with Course Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220 Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic		3 ,				
Select 15 credits from courses designated with Course Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-325 Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	D1 442		o			
Type: MEBP. Nine (9) credits must be at the 300+ level or highter. BY-221 Introduction to Global Sustainability BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic	MEBP Electiv	ves (15 credits)				
BY-223 General Microbiology BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220 Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	Type: MEBP.	3	15			
BY-264 Environmental Field Methods BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-221	Introduction to Global Sustainability				
BY-290 Open Water Scuba Certification Course BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-223	General Microbiology				
BY-303 Biological Oceanography BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-264	Environmental Field Methods				
BY-310 Biochemistry and Lab BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-290	Open Water Scuba Certification Course				
BY-317 Tropical Island Ecology BY-322 Icthyology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-303	Biological Oceanography				
BY-322 Icthyology BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-310	Biochemistry and Lab				
BY-324 Applied Microbiology BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-317	Tropical Island Ecology				
BY-375L Laboratory in Molecular and Cellular Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-322	Icthyology				
Biology BY-420 Ecosystems Analysis BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-324	Applied Microbiology				
BY-424 Evolution BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-375L					
BY 299/BY 399/BY 499 Independent Study PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-420	Ecosystems Analysis				
PH-270 Physical Oceanography CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY-424	Evolution				
CE-220 Environmental Chemistry CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	BY 299/BY	/ 399/BY 499 Independent Study				
CE-220L Environmental Chemistry Laboratory CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	PH-270	Physical Oceanography				
CE-242 Organic Chemistry II AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	CE-220	Environmental Chemistry				
AN-278 Maritime History/Underwater Archaeology GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	CE-220L	Environmental Chemistry Laboratory				
GIS-224 Introduction to Geographic Information Systems (GIS) GIS-336 Marine Applications of Geographic	CE-242	Organic Chemistry II				
Systems (GIS) GIS-336 Marine Applications of Geographic	AN-278	Maritime History/Underwater Archaeology				
GIS-336 Marine Applications of Geographic	GIS-224	<u> </u>				
	GIS-336	Marine Applications of Geographic				

GO-332	Climate Change Adaptation and Policy			
PS-330 Environmental Policy				
Interdisciplin	nary Requirements (27 credits)			
Select 3 cred	lits from the following:	3		
(MA-115 o General Ed	r MA-116 or MA-125 satisfies Mathematics in ducation)			
MA-115	Pre-Calculus Modeling for the Biological Sciences			
MA-116	Calculus for the Biological Sciences			
MA-125	Calculus with Analytic Geometry I			
MA-151	Statistics with Applications	3		
CE-111	General Chemistry I	3		
CE-111L	General Chemistry Laboratory I	1		
CE-112	General Chemistry II	3		
CE-112L	General Chemistry Laboratory II	1		
CE-241	Organic Chemistry I ²	3		
CE-241L	Organic Chemistry Laboratory I	2		
PH-105	Physics for the Life Sciences I	3		
PH-105L	Physics for the Life Sciences Laboratory I	1		
PH-106	Physics for the Life Sciences II	3		
PH-106L	Physics for the Life Sciences Laboratory II	1		
Free Elective	es (9 credits)			
Complete up	9			
General Educ	cation Requirements (30 credits)			
Complete 30 table. ⁴	credits as outlined on the General Education	30		
Total Credits		120		

- BY-102 Applications in Biotechnology (3 cr.), BY-104 Human Biology (3 cr.), BY-105 Introductory Biology and Human Development (3 cr.), and BY-106 The Brain Highs and Lows (3 cr.) are not available to BY majors.
- A second semester of Organic Chemistry (CE-242 Organic Chemistry II (3 cr.)) may be required for certain graduate programs in marine or environmental science.
- Please consult with your advisor regarding the required number of free electives that must be completed.
- The General Education curriculum requires the completion of 45 credits. However, students may be able to share credits from within their major or interdisciplinary requirements. Please consult with your advisor to determine which General Education (http://catalog.monmouth.edu/undergraduate-catalog/academic-programs-support-services-regulations/general-education-requirements) courses must be completed.

Notes

• 54 credits must be completed at the 200 level or higher.

Sequence Chart

First Year		
Fall	Credits Spring	Credits
EN-101 College Composition I	3 EN-102 College Composition II	3
BY-110 Introduction to Cell and Molecular Biology or 109	4 CE-112 & 112L (Gen*Ed Natural Science (NS) BY,CE,PH,SC,GL)	4
BY-119 Introductory Biology Major Seminar	1 BY-109 Introduction to Biodiversity and Evolution or 110	4

CE-111 & 111L (Gen*Ed Natural Science (NS) BY,CE,PH,SC,GL)	4	FO-xxx World Language	3
MA-115 Pre-Calculus Modeling for the Biological Sciences or 116 (Gen*Ed Mathematics)	3	Gen*Ed Social Science Survey (SS.SV)	3
Semester Credits	15	Semester Credits	17
Second Year			
Fall	Credits	Spring	Credits
BY-205 Zoology	3	MA-151 Statistics with Applications	3
MEBP Elective (see curriculum chart)	3	Gen*Ed Literature (LIT)	3
CE-241 & 241L	5	BY-214 Botany	3
Gen*Ed Aesthetics (AT) AR,DA,MU,TH	3	BY-216 Introduction to Genetics	4
		MEBP Elective	3
Semester Credits Third Year	14	Semester Credits	16
Fall	Credits	Spring	Credits
PH-105 & 105L	4	BY-342 Coastal Zone Management	3
Gen*Ed Cultural Diversity (CD) or Global Understanding (GU)	3	BY-395 Seminar in Marine and Environmental Biology	3
BY-220 Environmental Biology and Policy	3	PH-106 & 106L	4
BY-341 Marine Biology	4	MEBP Elective (see curriculum chart)	3
		Free Elective	3
Semester Credits	14	Semester Credits	16
Fourth Year			
Fall		Spring	Credits
BY-440 Ecology	4	BY-442 Natural Resource Conservation and Management	3
MEBP Elective	3	Gen*Ed Social Science Survey (SS.SV)	3
PR-4xx Interdisciplinary Perspectives (ISP)	3	MEBP Elective	3
Gen*Ed Historical Perspectives (HS.SV) or Social Science Survey (SS.SV)		Free Elective	3
Free Elective	3		
Semester Credits	16	Semester Credits	12