

MARINE ENVIRONMENTAL SCIENCE

Meteorology and Oceanography Minor

Academic Year 2007/8

May Admit

The Marine Environmental Science major is designed to provide students with a strong multidisciplinary scientific background and laboratory skills in physical, earth and life sciences. The program incorporates fundamental courses in biology, chemistry, physics, geology, oceanography, meteorology and mathematics with specialized classes in environmental chemistry, environmental pollution, and environmental law and policy.

Approved STA-21 Options: Core, SWO, Pilot, NFO, Specwar, SpecOps, Intell

Degree Plan: [Marine Environmental Science major, Marine Biology minor](#)

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B.S. in Marine Environmental Science for STA-21

Transfer Credits			
PS 111, Professional Studies	2	PS 113, Basic Safety Training	2
NVSC 103, MMO I	1	MES 510, Prof. Experience	6
PE 100, Basic Swimming	1	PE 101, Lifetime Fitness & Condition	1
Totals			13

Summer 2007			
Calculus I*	4	Calculus II*	4
ENGL 101, Freshman English I	3	ENGL 102, Freshman English II	3
Totals			14

* Math101-102 or Math 111-112

Academic Year 2007/8			
Fall Semester	cr.	Spring Semester	cr.
CS 100, Intro to Business Computing	2	MATH 251, Statistics	3
CS 101, Computer Laboratory	1	PHYS 214/216, General Physics II	4.5
PHYS 211/213, General Physics I	3.5	CHEM 123/124, General Chemistry II	4
CHEM 121/122, General Chemistry I	4	BIO 210, Ecology	3
BIO 201, General Biology	4	METE 201, Meteorology for Mariners	3
NVSC 201, Management	3	NVSC 220, Leadership Lab	.5
NVSC 200, Leadership Lab	.5		
Totals	18	Totals	18

Summer 2008			
HUMN 201, Humanities I	3	HUMN 202, Humanities II	3
Science/Mathematics Elective	3		
Totals			9

Academic Year 2008/9			
Fall Semester	cr.	Spring Semester	cr.
METEO 350, Synoptic Meteorology	4	METE 408, Dynamic Meteorology	3
BIO 315, Marine Biology	3	OCEA 415, Marine Biogeochemistry	4
GBLW 435, Enviro Law & Policy	3	ES 304, Remote Sensing	2
OCEAN 303, General Oceanography	4	CHEM 221/222, Organic Chemistry	4
CHEM 220, Environmental Chemistry	3	OCEA 308, Dynamic Oceanography	3
NVSC 300, Leadership Lab	.5	NVSC 402, Leadership and Ethics	3
		NVSC 330, Leadership Lab	.5
Totals	17.5		19.5

Summer 2009

HIST 101, American Civilization I	3	HIST 102, American Civilization II	3
Elective	3		
Totals			9

Academic Year 2009/10

Fall Semester	cr.	Spring Semester	cr.
MES Elective	3		
ES 420, Environmental Pollution	3		
GEOG 301, General Geology	3		
Humanities or Social Science Elective	3		
PE 411, Medical Care Provider	1		
PE 20x, Lifetime Sports	1		
MES Elective	3		
NVSC 400, Leadership Lab	.5		
Totals	17.5		
		Total Credits	135.5

MARINE ENVIRONMENTAL SCIENCE ELECTIVES

Recommended elective courses for the Marine Biology minor:

- BIOL 420 Ecotoxicology (4 credits)
- ES 410 Marine Microbiology (3 credits)
- ES 430 Environmental Impact Assessment (3 credits)

Recommended elective courses for the Meteorology & Oceanography minor:

- METE 402 Tropical Cyclones (3 credits)
- METE 410 Marine Climatology (2 credits)
- METE 422 Weather Forecasting (3 credits)
- OCEA 414 Marine Geology (3 credits)
- OCEA 402 Estuaries & Coastal Processes (3 credits)
- OCEA 425 Marine Environmental Issues (3 credits)