OCEANOGRAPHY MINOR

A minor in Oceanography examines the physical aspects of ocean currents, tides and the intimate relationship between the ocean and atmosphere, with significant emphasis on the ocean's role in climate change. Offering a comprehensive classroom instruction and field training in the physical, chemical, geological and biological aspects of oceanography, students acquire a rigorous education in the fundamental theories, but also experience practical field and laboratory applications currently used by working oceanographers.

Regulations Governing Minor Course Work

- 1. There shall be a minimum of 18.0 credit hours with a minimum Millersville QPA of 2.0.
- 2. Only one course which counts toward your major may be counted toward your minor.
- Courses that count toward a minor are also eligible to be used to satisfy the current University-wide General Education requirements subject to normal distribution requirements.
- 4. At least two courses should be at the upper-division level (300-400). Exceptions may be requested upon evidence of program depth.
- 5. No course needed for the minor may be taken Pass-Fail.
- One-half or more of the work required for the minor must be completed at Millersville University.
- 7. No student may minor in his or her major.

Minor in Oceanography

Code	Title	Hours
Credits Required for Minor		
	true	
Minimum Reside	ncy 50% of minor credits	
	true	
Minimum GPA 2.0	0 for Minor	
	true	
2 Courses Must b	oe Upper-Division	

		true	
E	SCI 261	Introduction to Oceanography	4
R	equired Core Co	urses - Choose 2 of the following:	6
	ESCI 362	Marine Geology	
	ESCI 363	Chemical Oceanography	
	ESCI 369	Physical Oceanography and Climate	
	ESCI 465	Biological Oceanography	
R	Required Methods Courses - Choose 2 of the following:		
	ESCI 267	Field Methods in Oceanography	
	ESCI 282	FORTRAN Programming for Earth Sciences Applications	

Total Hours	19	
ESCI 468	Ocean Data Analysis and Presentation	
ESCI 464	Ocean Ecosystems	
ESCI 445	Num Modeling of Atmos and Ocns	
ESCI 385	Global Climate Change: Sci & Policy	
ESCI 366	Marine Resources and Policy	
Earth Science E	lective - Choose 1 of the following:	3
ESCI 386	Sci Prg Lang:	
ESCI 380	Remote Sensing & Image Interpretation	