

**Major Requirements for a B.S in Applied Physics
with a concentration in
Physical Oceanography**

Requirements listed are those in the 2018-2019 catalog. The required courses for the major should be taken for a letter grade. All courses are required unless otherwise indicated.

Preparatory Subject Matter

Course	No	Units	Qtr	Grade	GP
PHY	9A	5	F,S		
	9B	5	F,W		
	9C	5	W,S		
	9D	4	F,S		
	or				
PHY	9HA	5	F		
	9HB	5	W		
	9HC	5	S		
	9HD	5	F		
	9HE	5	W		
	and				
MAT	21A	4	F,W,S		
	21B	4	F,W,S		
	21C	4	F,W,S		
	21D	4	F,W,S		
	22A	3	F,W,S		
	22B	3	F,W,S		
PHY	40	4	S		
PHY	80*	4	W,S		
	185*	1	S		
	190*	1	F		
ATM	60*	4	F		

Laboratory Requirement

Course	No	Units	Qtr	Grade	GP
PHY	122A/B	4	W		
	or				
	116C	4	S		

Concentration Courses

Course	No	Units	Qtr	Grade	GP
PHY	105C	4	S#		
ATM	120	4	F		
	121A	4	W		
	121B	4	S		
GEL	116N	3	W		
	150A	4	F		

Additional Electives

Choose 1 course in consultation with the major advisor

Course	No	Units	Qtr	Grade	GP
PHY	104B	4	W		
	112	4	F		
	116C	4	S		
MAT	118A	4	F		
	118B	4	W		

Core Subject Matter

Course	No	Units	Qtr	Grade	GP
PHY	102	1	F		
	104A	4	F		
	105A	4	F		
	110A	4	W		
	110B	4	S		
	115A	4	S		
	116A	4	F		
	116B	4	W		

Substitutions : PHY102 is waived for students who take PHY104B.

PHY 80 will be a pre-requisite for PHY 122A/B starting W2020

Course not offered every year

*Recommended Course

Overall	
Upper Div	

Major GPA

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Suggested Schedule

The core major courses as well as the minimum requirement concentration courses are underlined below. Elective courses are in italics.

	Fall	Winter	Spring
Junior	<u>PHY102 (1)</u> <u>PHY104A (4)</u> <u>PHY105A (4)</u> <i>MAT118A (4)</i>	<u>PHY110A (4)</u> <u>GEL116N (3)</u> <i>PHY104B (4)</i> <i>MAT118B (4)</i>	<u>PHY 080 (4)</u> <u>PHY110B (4)</u> <u>PHY115A (4)</u>
Senior	<u>PHY116A (4)</u> <u>ATM120 (4)</u> <u>GEL150A (4)</u> <i>PHY112 (4)</i>	<u>PHY116B (4)</u> <u>ATM121A (4)</u> <i>PHY122 (4)</i>	<u>PHY105C (4)#</u> <u>ATM121B (4)</u> <i>PHY116C (4)</i>

Core, Concentration and Addtl. Electives Total _____
60 Total Units

Course not offered every year.

Course Substitution/ Waiver requests should be submitted well in advance, preferably prior to enrollment in the course.

1. Student must first speak with a faculty advisor.
2. Faculty advisor submits course substitution/waiver request to the Undergraduate Curriculum Committee for approval.

Advisor please Initial & date substitution/waiver requests and submit to the Chair of the Undergraduate Curriculum Committee.

Approval: _____ (Required for delcaration of major & any subsequent substitutions)
Physics Advisor Date

Approval: _____ (Required only if there are substitutions.)
Departmental Approval Date