

University Of California, Davis-Requirements For The B.S. Degree In

APPLIED PHYSICS

with concentration in

GEOPHYSICS

Preparatory: All Applied Physics majors must take Physics 9ABCD or 9HABCDE, Math 21ABCD, Math 22AB, Engineering: Computer Science 30, and Chemistry 2A or 2HA (2B-2C or 2HB-2HC highly recommended) (46 units). In addition, it is recommended that Applied Physics students concentrating in GEOPHYSICS take the following courses:

Geology 50 (Physical Geology)	3
Geology 50L (Physical Geology Lab)	2

Depth: All majors are required to take the common core of Physics 104A, 105A, 110AB, 112, 115A, 116AB, (Mathematical Methods, Mechanics, Electricity and Magnetism, Thermodynamics, Quantum Mechanics, Electronics) and to satisfy the minimum requirements of the concentration.

Lab Requirements: Physics 122 or 116C

COURSES

Minimum:

Physics 104B (Comp. Methods of Math Physics)	4
Physics 105C (Continuum Mechanics)	4
Geology 161 (Seismology)	3
Geology 162 (Geophysics of Solid Earth)	3

Additional Electives Must choose at least two additional courses from the following in consultation with a Geophysics adviser.

Atmos Science 120 (Atmos, Thermo & Statics)	4
Atmos Science 121AB (Atmos Dynamics)	8
Geology 163 (Planetary Geology)	3
Physics 105B (Mechanics)	4
Physics 127 (Astrophysics)	4
Physics 116C (Data Acquisition)	4

SUGGESTED SCHEDULE

	Fall	Winter	Spring
Junior	<u>PHY104A</u>	<u>PHY104B</u>	<u>PHY105C</u>
	<u>PHY105A</u>	PHY105B	<u>PHY110B</u>
	PHY102	<u>PHY110A</u>	<u>PHY115A</u>
	<u>GEL161</u>	<u>GEL162*</u>	
Senior	<u>PHY112</u>	<u>PHY116B</u>	PHY116C
	<u>PHY116A</u>	<u>PHY122</u>	ATM121B
	ATM120	ATM121A	PHY127*
		GEL163*	
		PHY127	

*Offered in alternate years

+Also offered other quarters

The student is responsible for knowing the required prerequisites and/or Physics substitutions for other department courses. Applied Physics Adviser for Geophysics Concentration: P.M. Yager (752-2227)

GEOPHYSICS

APPLIED PHYSICS ACADEMIC PLAN for _____
with the **GEOPHYSICS** concentration.

Requirements are those listed in the 2004-06 catalog. Courses required for the major should be taken for a letter grade.

Adviser: Record quarter & year courses to be taken.

LOWER DIVISION COURSES REQUIRED & completed to satisfy requirements. **Include transfer courses.**

**Physics	Math	ECS	Chem	
9A _____	21A _____	30 _____	2A _____	Required
9B _____	21B _____		2B _____	Recomm.
9C _____	21C _____	*GEL	2C _____	Recomm.
9D _____	21D _____	50 _____		
9HA _____	22A _____	50L _____		
9HB _____	22B _____			
9HC _____				
9HD _____				
9HE _____				

*Recommended

** Credit loss in the 9 series if you have taken any part of the series of Physics 1 or 7. See General Catalog for details.

UPPER DIVISION REQUIREMENTS

The common core of Physics 104A, 105A, 110AB, 112, 115A, 116AB, and the requirements of the concentration are underlined below.

	Fall	Winter	Spring
Junior	<u>PHY104A</u> (4) <u>PHY105A</u> (4) <u>GEL161</u>	<u>PHY104B</u> (4) <u>PHY105B</u> (4) <u>PHY110A</u> (4) <u>GEL162*</u>	<u>PHY105C</u> (4) <u>PHY110B</u> (4) <u>PHY115A</u> (4)
Senior	<u>PHY112</u> (4) <u>PHY116A</u> (4) ATM120 (3)	<u>PHY122</u> (4) <u>PHY116B</u> (4) ATM121A (3) GEL163* (4) PHY127	PHY116C (4) ATM121B (3) PHY127*

*offered in alternate years..

+also offered other quarters

If you are proposing any substitutions, list them here and in the above schedule. Advisor initial & date substitution proposals.

Approval: _____
Applied Physics Advisor (Date)

(Required for declaration of major
& any subsequent substitutions.)

Approval: _____
Departmental Approval (Date)

(Required only if there are substitutions.)