

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

APPLIED PHYSICS

with concentration in

ATMOSPHERIC PHYSICS

Preparatory: All Applied Physics majors must take Physics 9ABCD or 9HABCDE, Math 21ABCD, Math 22AB, Engineering: Computer Science 30, and Chemistry 2A or 2AH (2B-2C or 2BH-2CH highly recommended). Additionally, for students in Atmospheric Physics, Atmospheric Science 60 is recommended.

Depth: All majors are required to take the common core of Physics 102, 104A, 105A, 110AB, 112, 115A, 116AB, (Mathematical Methods, Mechanics, Computational Laboratory in Mechanics, Electricity and Magnetism, Thermodynamics, Quantum Mechanics, Electronics,), along with satisfying the minimum requirements of the concentration.

Lab Requirements: Physics 122 or 116C

CONCENTRATION COURSES

Minimum:	Physics 105C (Continuum Mechanics)	4
	Atmos Sci 120 (Atmos Thermo & Statics)	4
	Atmos Sci 121AB (Atmos Dynamics)	8
	Geology 150A (Phys & Chem Oceanography)	4

Additional Electives: Must choose at least one additional course from the following in consultation with the Atmospheric Physics advisor:

Physics 104B (Comp. Methods of Math Physics)	4
(102 is waived for students who take 104B)	
Physics 116C (Data Acquisition)	4
Atmos Sci 128 (Atmos Rad & Satellite Meteorology)	4
Geology 116 (The Oceans)	3
Math 118AB (Partial Differential Equations)	8

SUGGESTED SCHEDULE

	Fall	Winter	Spring
Junior	<u>PHY104A</u>	PHY104B	<u>PHY110B</u>
	<u>PHY105A</u>	<u>PHY110A</u>	<u>PHY115A</u>
	<u>PHY102</u>	<u>PHY116B</u>	
	<u>PHY116A</u>	GEL 116 ⁺	
Senior	<u>PHY112</u>	<u>PHY122</u>	PHY116C
	<u>ATM120</u>	<u>ATM121A</u>	<u>ATM121B</u>
	<u>GEL150A</u>	ATM128	<u>PHY105C</u>
	MAT118A	MAT118B	

⁺ 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
Atmospheric Physics Concentration: P.M. Yager (752-2227) 2000-01

ATMOSPHERIC

APPLIED PHYSICS ACADEMIC PLAN for _____
with the **ATMOSPHERIC PHYSICS** 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*	Physics*	Math	Chem
9A _____	9HA _____	21A _____	2A/2HA _____ Required
9B _____	9HB _____	21B _____	2B/2HB _____ Recomm.
9C _____	9HC _____	21C _____	2C/2HC _____ Recomm.
9D _____	9HD _____	21D _____	
	9HE _____	22A _____	Other
ATM 9 (Recommended)		22B _____	ECS 30 _____
60 _____			

*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 102, 104A, 105AB, 110AB, 112, 115A, 116AB, 122 and the minimum requirements of the concentration are underlined below.

	Fall	Winter	Spring
Junior	<u>PHY104A</u> (4)	PHY104B (4)	<u>PHY110B</u> (4)
	<u>PHY105A</u> (4)	<u>PHY110A</u> (4)	<u>PHY115A</u> (4)
	<u>PHY102</u> (1)	<u>PHY116B</u> (4)	
	<u>PHY116A</u> (4)	GEL 116 ⁺ (3)	
Senior	<u>PHY112</u> (4)	<u>PHY122</u> (4)	PHY116C (4)
	<u>ATM120</u> (4)	<u>ATM121A</u> (4)	<u>ATM121B</u> (4)
	<u>GEL 150A</u> (4)	ATM128 (4)	<u>PHY105C</u> (4)
	MAT118A (4)	MAT118B (4)	

⁺ Also offered other quarters.

The student is responsible for knowing the required prerequisites and/or Physics substitutions for other department courses.

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

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

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