

DEPARTMENT OF EARTH AND ATMOSPHERIC SCIENCES

ATMOSPHERIC SCIENCE CURRICULUM (Synoptic Meteorology Option)

<u>1st Semester</u>		<u>2nd Semester</u>	
(4)CHM	115 (General Chemistry)	(1)EAS	133 (Fr. Seminar in Atms. Science)
(5)MA	161 (Plane Analytic Geometry & Calculus I)	(4)CHM	116 (General Chemistry)
(4)ENGL	106 (Fr. Composition)	(5)MA	162 (Plane Analytic Geometry & Calculus II)
(3)EAS	109 (Dynamic Earth)	(3) xxx	101 (Foreign Language)
16		(3) xxx	xxx (General Education)
		16	
<u>3rd Semester</u>		<u>4th Semester</u>	
(3)EAS	225 (Science of the Atmos.)	(3)EAS	320 (Physics of Climate)
(4)PHYS	152 (Mechanics)	(3)PHYS	241 (Electriciy & Optics)
(4)MA	261 (Multivariate Calculus)	(1)PHYS	252 (Elec & Optics Lab)
(3)xxx	xxx (General Education)	(1)PHYS	290D (Thermo Unit)
(3) xxx	102 (Foreign Language)	(4)MA	262 (Linear Algebra & Differential Equations)
17		(3)xxx	201 (Foreign Language)
		15	
<u>5th Semester</u>		<u>6th Semester</u>	
(3)EAS	421 (Atmos. Thermodyn.)	(3)EAS	422 (Atmos. Dynamics I)
(1)EAS	431 (Synoptic Lab. I)	(1)EAS	432 (Synoptic Lab. II)
(3)MA	xxx (Math Elective)♦	(3)EAS	532 (Atmos. Physics I)
(3)CS	158 (Programming C)	(3) STAT	xxx (Statistics Elective)*
(3)xxx	xxx (General Education)	(3)xxx	xxx (Computer Elective)■
(3)xxx	202 (Foreign Language)	(3)xxx	xxx (Advanced Composition)
16		16	
<u>7th Semester</u>		<u>8th Semester</u>	
(3)EAS	423 (Atmos. Dynamics II)	(3)EAS	434 (Weather Analysis & Forecasting)
(1)EAS	433 (Synoptic Lab III)	(3)EAS	xxx (Synoptic Elective)♦
(3) EAS	535 (Atmos. Obs. & Meas.)	(3)xxx	xxx (General Education)
(3)xxx	xxx (General Education)	(3)xxx	xxx (Free Elective)
(3)xxx	xxx (General Education)		
(3)xxx	xxx (Free Elective)	12	
16			

Total credits = 124

General Education Requirements (18 cr)

See the School of Science catalog or web (<http://www.science.purdue.edu>) for eligible courses under Undergraduate Degree Requirements.

Science and Engineering Electives (12 cr)

● 3 cr. from any 300 level or above mathematics course. MA 303 is strongly recommended for employment with the National Weather Service.

*3 cr. from STAT 301, 433, 501, 511.

■ 3 cr. from EAS 309, 409, 509, STAT 433, CS 314. Note: STAT 433 cannot be used to satisfy both the Statistics and Computer electives.

◆ 3 cr. from EAS 325, 520, 523, 525, 534, 536, 538, or CE 557.

Free Electives

Courses selected from almost any department of the University.

Requirements for Entry into the Upper Division in Earth and Atmospheric Sciences for Students Beginning Fall 2003:

A student pursuing a major in either Solid Earth Geoscience or Atmospheric Science must satisfy the following before being permitted to enter the upper division:

- (1) Completion of MA 161, MA 162, CHM 115, CHM 116 and PHYS 152 or equivalents each with a grade of C or better; and
- (2) Completion of required lower division courses in the student's major area each with a grade of C or better.

For the application of these requirements, entry into the upper division is defined as registration for the semester which includes EAS 351 (for Solid Earth programs) or EAS 421 (for Atmospheric Science) in the course selection.

Graduation Requirement

To graduate in any EAS major, a student must have an average grade point index of 2.00 or above in EAS courses required for the major. This requirement applies to students who enroll in their EAS major after the Fall 2001 semester.