## Department of Earth, Atmospheric, & Planetary Sciences
### Atmospheric Science Major

#### Requirements

1. **1st Semester**
   - (3) EAS 10900 (or 19100) Dynamic Earth
   - (4) CHM 11500 General Chemistry
   - (5) MA 16100 Pl. An. Geom. & Calc I
   - (4) ENGL 10600 Fr. Composition (1st or 2nd sem)
   - 16

2. **2nd Semester**
   - (2) EAS 11700 Intro to Atmospheric Science
   - (1) EAS 13700 Fr. Sem Earth & Atms Sciences
   - (4) CHM 11600 General Chemistry
   - (3) XXX xxxx Language & Culture
   - 15

3. **3rd Semester**
   - (3) EAS 22500 Science of the Atmosphere
   - (4) PHYS 17200 Modern Mechanics\(^1\)
   - (4) MA 26100 Multivariate Calculus
   - (3) XXX xxxx Language & Culture
   - 14

4. **4th Semester**
   - (3) EAS 32000 Physics of Climate
   - (4) PHYS 27200 Electric & Magnetic Interactions
   - (3) MA 26500 Linear Algebra
   - (3) XXX xxxx Language & Culture
   - (3) COM 21700 Technical Writing/Technical Presentation
   - 16

5. **5th Semester**
   - (3) EAS 42100 Atmospheric Thermodynamics
   - (1) EAS 43100 Synoptic Lab I
   - (3) MA 26600 Differential Equations
   - (3) CS xxxxx Programming Elective\(^1\)*
   - (3) XXX xxxx General Education Elective
   - (3) XXX xxxx Teamwork/Collaboration or Elective
   - 16

6. **6th Semester**
   - (3) EAS 42200 Atmospheric Dynamics I
   - (1) EAS 43200 Synoptic Lab II
   - (3) EAS 53200 Atmospheric Physics I
   - (3) XXX xxxx Statistics Elective*
   - (3) XXX xxxx General Education Elective
   - (3) XXX xxxx Multidisciplinary Science *or Elective
   - 16

7. **7th Semester**
   - (3) EAS 42300 Atmospheric Dynamics II
   - (1) EAS 43300 Synoptic Lab III
   - (3) EAS 53500 Atmospheric Observ. & Measure.
   - (3) XXX xxxx Great Issues (must be jr or sr)
   - (3) XXX xxxx Elective
   - (3) XXX xxxx Elective
   - 16

8. **8th Semester**
   - (3) XXX xxxx General Education Elective
   - (3) XXX xxxx Elective (EAS 43400)*
   - (3) XXX xxxx Elective
   - (3) XXX xxxx Elective
   - 15

Total Credits: 124

\(^1\) Enrollment in SCI 21000 concurrently with CS or PHYS 172 to meet Teamwork Principles & Experience
*EAS & Core Electives*

Programming Electives: CS 15800 or CS 15900. CS 15800 is recommended and a pre-requisite for EAS 30900 (also recommended).


Multidisciplinary: EAS 43400 Weather Analysis & Forecasting counts for Multidisciplinary; enroll during 8th semester as an Elective (strongly recommended).

**College of Science Core Requirements**

Looking for what counts as Great Issues, Multidisciplinary, General Education, Culture/Diversity, etc? See http://www.science.purdue.edu/index.php/for-current-students

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

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

1. Completion of MA 16100, MA 16200, CHM 11500, CHM 11600 and PHYS 17200 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 353 or 354 (for geology/teaching programs) EAS 3xxxx Envi Electives (environmental geosciences), or EAS 320 (for atmospheric science) in the course selection.

**Graduation Requirements**

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.

The University requires that at least 32 credits hours must be at the 30000 level or above.