

Purdue University
 Department of Earth and Atmospheric Sciences
 Atmospheric Science Major

If you are planning to attend **GRADUATE SCHOOL** or work in **RESEARCH**, or want one of these options once you graduate, it is recommended that you select the following courses on your plan of study to meet 2005 AMS guidelines.

<u>Credits</u>	<u>Course</u>	<u>Recommended Semester</u>	<u>Pre-requisites</u>
3___	EAS 225	3	Calc I co-req
3___	EAS 320	4	Calc I, PHYS 172 co- or pre-req.
3___	MA 265	4	MA 261
3___	EAS 421	5	EAS 225, MA 261, PHYS 272 co- or pre-r.
1___	EAS 431	5	EAS 225, co-req EAS 421
3___	MA 266	5	MA 261
3___	C S 158	5	MA 161
3___	EAS 422	6	EAS 421, MA 266
1___	EAS 432	6	EAS 431, co -req EAS 422
3___	EAS 532	6	EAS 421, MA 266
3___	EAS 423	7	EAS 422
3___	EAS 433	7	EAS 423
3___	EAS 535	7	EAS 225

Electives

- 3 ___ *synthesis course
- 3 ___ EAS STAT 5/6/7/8
or STAT 301 A stat course is required.
- 3 _____
- 3 _____
- 3 _____
- 3 _____

****See back of page for suggestions on useful electives for preparation for graduate studies and research positions in atmospheric science.**

**Note that participation in a Research Experience for Undergraduates (REU) summer program, or other research-related activity, is highly advantageous for acceptance into atmospheric science graduate programs.

Suggested electives:

*To meet AMS guidelines, a *synthesizing experience* must be completed. This may include, but is not limited to, successful completion of EAS 434, successful completion of EAS 521 and 522, receiving one credit for an unpaid internship (EAS 391), or successful completion of an undergraduate research project under a faculty member's guidance (EAS 497).

For graduate school or research positions (based on 2005 AMS guidelines)

- additional math courses (e.g. PDEs)
- additional courses in dynamics, physical meteorology, mesoscale and synoptic meteorology, climate change, or remote sensing
- a course in numerical methods or computational fluid dynamics
- a course in statistics and probability theory
- additional courses in scientific computer programming