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## Department of Earth & Atmospheric Sciences Geology and Geophysics Major

Fall 2007-

### 1<sup>st</sup> Semester

- (3) EAS 10900 The Dynamic Earth
  - (4) CHM 11500 Chemistry I
  - (4-5) Calculus I (MA 161000)
  - (4) ENGL 10600 Fr. Comp (1<sup>st</sup> or 2<sup>nd</sup> sem)
  - (1) SCI 13000 Teamwork (1<sup>st</sup> or 2<sup>nd</sup> sem)
- 16-17 Total Credits

### 2<sup>nd</sup> Semester

- (3) EAS 11800 Intro. to Earth Science
  - (4) CHM 11600 Chemistry II
  - (4-5) Calculus II (MA 16200)
  - (3) Language & Culture (or other core requirement)
  - (1) EAS 13700 (Fr. Sem. Earth & Atmospheric Science)
- 15 - 16 Total Credits

### 3<sup>rd</sup> Semester

- (4) EAS 24300 Earth Materials
  - (4) Second Science Lab sequence, Part 1
  - (3) xxx xxxxx General Education Elective
  - (3) Language & Culture
- 14 Total Credits

### 4<sup>th</sup> Semester [*optional Study Abroad*]

- (3) EAS 31900 Exploring Earth through Time
  - (4) Second Science Lab sequence, Part 2
  - (3) EAS xxxxx EAS Elective
  - (3) xxx xxxxx Language & Culture
  - (3) COM 21700 Technical Writing/Technical Presentation
- 16 Total Credits

### 5<sup>th</sup> Semester

- (3) EAS 35300 (Surface Processes)
  - (3) STAT xxxxx Statistics
  - (3) EAS xxxxx EAS Elective
  - (3) C S xxxxx Programming
  - (3) xxx xxxxx Science or Engr Elective<sup>a</sup>
- 15 Total Credits

### 6<sup>th</sup> Semester

- (3) EAS 35400 (Plate Tectonics)
  - (3) xxx xxxxx Great Issues (must be jr or sr)
  - (3) xxx xxxxx Teamwork/Collaboration or Elective
  - (3) EAS 30900 (Data Anlysis Appl in Geos.)
  - (3) xxx xxxxx Science or Engr Elective<sup>a</sup>
- 15 Total Credits

### Summer Session

- (4-6) EAS 49000 (Field Experience)

### 7<sup>th</sup> Semester

- (3) EAS xxxxx EAS Professional Elective<sup>b</sup>
  - (3) EAS xxxxx EAS Professional Elective<sup>b</sup>
  - (3) xxx xxxxx General Education Elective
  - (3) xxx xxxxx Multidisciplinary or Elective
  - (3) xxx xxxxx Free Elective
- 15 Total Credits

### 8<sup>th</sup> Semester

- (3) EAS xxxxx EAS Professional Elective<sup>b</sup>
  - (3) EAS xxxxx EAS Professional Elective<sup>b</sup>
  - (3) xxx xxxxx General Education Elective
  - (3) xxx xxxxx Free Elective
  - (3) xxx xxxxx Free Elective
- 15 Total Credits

125+ credits

<sup>a</sup> Science or Engineering Elective needs to be 2xxxx or above, example MA 26100.

<sup>b</sup> EAS electives for advanced courses and specialization; 30000 level and above.

### Core Electives

Lab Electives: CHM 11500-11600 is recommended first lab sequence; 2<sup>nd</sup> lab sequence can be from physics, biology, etc., based on career expectations.

Programming Electives: C S 15800, C S 17700. Recommended before EAS 30900.

Statistics Electives: STAT 30100, 35000, 50300, 51100; EAS xxxxx (Stat Methods in Atms Sciences).

### Requirements for Entry into the Upper Division in Earth and Atmospheric Sciences

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 the first course in the second lab sequence (example: PHYS 17200, 22000 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 all geosciences programs) or EAS 42100 (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.**

College of Science Core Requirements: <http://www.science.purdue.edu/core/requirements2.asp>