

Department of Earth, Atmospheric, & Planetary Sciences

Curriculum Requirements for Earth/Space Science Teaching Major (Grades 5-12)

1st Semester

- (3) EAS 10900 (or 19100)* The Dynamic Earth
- (4) ENGL 10600 Fr Composition (1st or 2nd sem)
- (5) MA 16100 Plane Analytic Geometry & Calculus I
- (4) CHM 11500^a General Chemistry

16 Total Credits

3rd Semester

- (4) EAS 24300* Earth Materials
- (4) PHYS 17200^b Modern Mechanics
- (4) MA 26100 Multivariate Calculus

BLOCK I--Theory into Practice (courses taken together)

- (3) EDCI 20500 Exploring Teaching as a Career
 - (3) EDCI 28500^c Multiculturalism & Education
- 18 Total Credits

5th Semester

- (3) EAS 35300* (Surface Processes)
- (3) STAT xxxxx Statistics
- (3) XXX xxxxx Language & Culture
- (3) COM 21700 Technical Writing/Tech Presentation
- (3) C S xxxxx Programming

15 Total Credits

2nd Semester

- (3) EAS 11800* Intro to Earth Science
 - (1) EAS 13700 Fr Seminar in Earth & Atms Science
 - (5) MA 16200 Plane Analytic Geometry & Calculus II
 - (4) CHM 11600^a General Chemistry
 - (3) XXX xxxxx General Education Elective
- 16 Total Credits

4th Semester

- (3) EAS 31900* Exploring Earth through Time
- (4) PHYS 27200^b Electric & Magnetic Interactions
- (4) MA 26200 Linear Algebra & Differential Equation

BLOCK II--Theory into Practice (courses taken together)

- (3) EDPS 23500^d Learning & Motivation
 - (3) EDPS 26500 The Inclusive Classroom
- 17 Total Credits

6th Semester

- (3) EAS 35400* (Plate Tectonics)
 - (3) EAS/ASTR+ (Select from + below)
 - (3) XXX 3xxxx General Education Elective
 - (3) XXX xxxxx Language & Culture
 - (3) EDCI 27000 Intro to Educ. & Computing
 - (3) EDST 20000 History & Philosophy of Education
- 18 Total Credits

Summer Session

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

7th Semester

- (3) EDCI 42400 Teaching of Earth/Physical Science
 - (3) EAS/ASTR+ (Select from + below)
 - (3) XXX xxxxx Great Issues (must be jr or sr)
 - (3) XXX xxxxx Free Elective
- 12 Total Credits

8th Semester

- (2) EDCI 42800^e Teaching Science in the Middle and Junior High School
 - (10) EDCI 49800^f Supervised Teaching of Secondary School Subjects
- 12 Total Credits

+ Select 2 courses from the following: EAS 10400, 10500, 11500, 11600, 12000, 13800, 22100, 22500; ASTR 26300, 26400.

*EAS course required by Department of Earth & Atmospheric Sciences

^a CHM 11100 and 11200 may be substituted for CHM 11500 and 11600

^b PHYS 22000 and 22100 may be substituted for PHYS 17200 and 27200

^c EDCI 28500 counts as Culture course. ^d EDPS 23500 counts as a General Education Elective.

^e Six-week course. ^f Student teaching.

Total Credits = 125+

EARTH/SPACE SCIENCE TEACHING MAJOR

Recommended Courses (to meet General Education Electives and State requirements)

(3) EDPS 23500

(3) PSY 12000

EDPS 23500 + PSY 12000 is considered a two-course sequence for General Education (and one two-course sequence is required by the College of Science).

Select one course from the following list:

HIST 15200, A&D 25500, MUS 25000, POL 10100, PHIL 11000

(3 credits each)

9 credits total needed for the General Education electives.

Core Electives

Programming Electives: C S 15800 or C S 17700.

Statistics Electives: STAT 30100, 35000, 50300, 51100; EAS 531 (Stat Methods for Atms Sciences).

Teamwork/Collaboration and **Multidisciplinary** requirements for the College of Science core are met for secondary education majors through their education courses. (EDCI 49800 Supervised Student Teaching for Teamwork/Collaboration) and degree requirements fulfill Multidisciplinary.

Language/Culture-EDCI 28500 Multiculturalism and Education fulfills the 3rd course in Language/Culture.

Requirements for Entry into Upper Division in Earth Space Science Teaching Students

A student pursuing a major in earth space science teaching must satisfy the following requirements before being permitted to enter the upper division.

1. Completion of MA 16100, MA 16200, CHM 11500 (or 11100), 11600 (or 11200); and PHYS 17200 (or 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 that includes EAS 35300 or 35400.

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.

See <http://www.teach.purdue.edu/> for additional requirements for licensing.

College of Science Core Requirements

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