

# Major: Geological Sciences

## (Geoscience Option)

Offered by: Department of Earth and Atmospheric Sciences

2124 Snee Hall, 255-5466, [www.eas.cornell.edu](http://www.eas.cornell.edu)

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### Introduction to Engineering Courses

ENGR 122 Earthquake! (recommended)

### Engineering Distributions

ENGRD 201 Introduction to the Physics and Chemistry of the Earth (required)

ENGRD 2XX (to be chosen from the list of engineering distribution courses)

### Required Major Courses

EAS 210 Introduction to Field Methods in Geological Sciences#

EAS 326 Structural Geology

EAS 355 Mineralogy

EAS 356 Petrology and Geochemistry

EAS 375 Sedimentology and Stratigraphy

EAS 388 Geophysics and Geotectonics

EAS XXX Advanced Outdoor Field Experience§

### Electives

Major-Approved Electives: Two to three courses selected from EAS 300 or above. (The third Major-approved elective may be a non-EAS course ≥ 300)

Three non-EAS electives ≥ 300

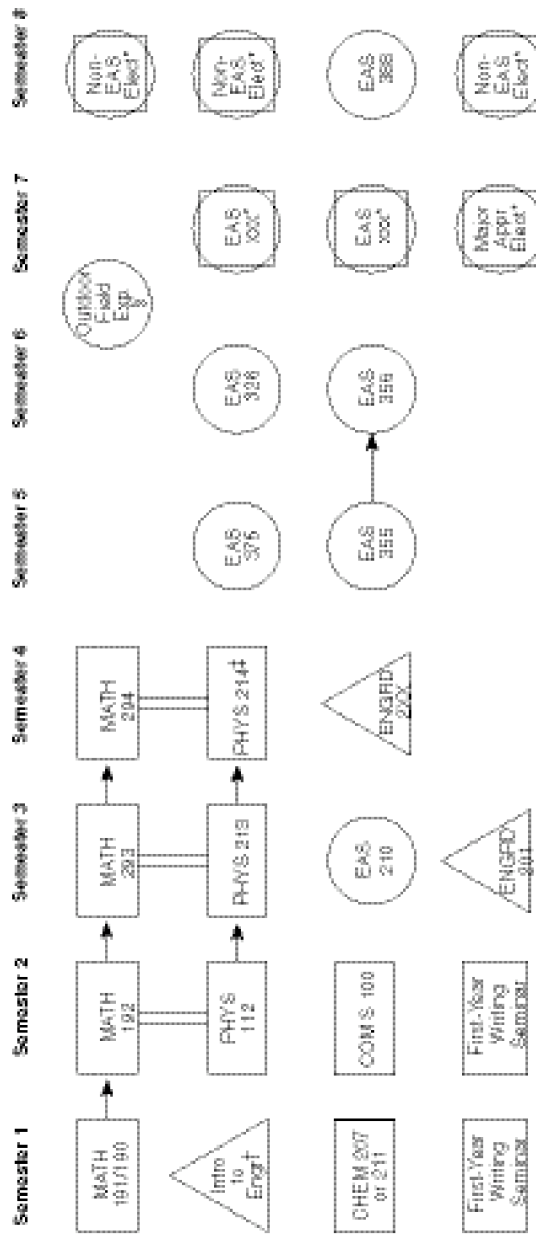
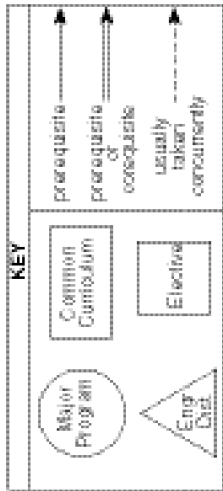
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#EAS 210 may be taken during the Fall semester of either the sophomore or junior year without delay in time of graduation.

§The advanced outdoor field experience requirement can be met by any one of the following 4-credit options: (a) EAS 417 and EAS 491-492 (for a combined 4-credit minimum); (b) EAS 437 plus at least 1 credit of EAS 491-492 using geophysical techniques from EAS 437; (c) EAS 491-492 with a significant component of field work; or (d) an approved outdoor field course taught by another college or university (4-credit minimum).

## GEOLOGICAL SCIENCES MAJOR (Geo S) Geoscience Option

- \* Must be 300 level or above
- † Recommended: ENGR1122
- ‡ CHEM 208 may be substituted for PHYS 214
- § The advanced outdoor field experience requirement can be met by any one of several 4-credit options. (See previous page for details.)



## Geological Sciences Major Checklist

### Geoscience Option

	<i>Min.</i> <i>Credit Hours</i>	<i>✓ When Done</i>
MATH 191	4	n
MATH 192	4	n
MATH 293	4	n
MATH 294	4	n
CHEM 207 (or 211)	4	n
PHYS 112 (or 116)	4	n
PHYS 213 (or 217)	4	n
PHYS 214 (or 218 or CHEM 208 or 215)	4	n
COM S 100	4	n
Intro. to Engr.: ENGRI 122 (rec.)	3	n
Engr. Dist. 1: ENGRD 201 (required)	3	n
Engr. Dist. 2	3	n
First-Year Writing Seminar 1†	3	n
First-Year Writing Seminar 2	3	n
Liberal Studies Distribution—6 courses (18-credit minimum)‡		
Lib. Studies 1		n
Lib. Studies 2		n
Lib. Studies 3		n
Lib. Studies 4		n
Lib. Studies 5		n
Lib. Studies 6		n
Approved Elective (2 courses; 6-credit minimum)		n
Approved Elective		n
Physical Education (2 semesters) and swim test		
Required Major Courses (48-credit minimum)‡		
EAS 210	3	n
EAS 326	4	n
EAS 355	4	n
EAS 356	4	n
EAS 375	4	n
EAS 388	4	n
Advanced Outdoor Field Experience Electives §	4	n
EAS Elective (3XX or above)	3/4	n
EAS Elective (3XX or above)	3/4	n
Major-Approved Elective (3XX or above)	3/4	n
Non-EAS Elective (3XX or above)	3/4	n
Non-EAS Elective (3XX or above)	3/4	n
Non-EAS Elective (3XX or above)	3/4	n
Total Required Credits	123 min.	_____
Additional Elective Courses (0 credits min., no max.)		n
†Technical Writing Course		n

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†In addition to the first-year writing seminars, a technical writing course must be taken as an engineering distribution, liberal studies, approved elective or major course.

‡Approved courses must be chosen from at least three of the following six groups: (1) Cultural Analysis (CA), (2) Historical Analysis (HA), (3) Literature and the Arts (LA), (4) Knowledge, Cognition, and Moral Reasoning (KCM), (5) Social and Behavioral Analysis (SBA), (6) Foreign Languages (not literature courses). At least two courses must be from the first three groups (CA, HA, LA). At least two of the six courses must be at 200-level or higher.

#Nine credits of Major-complementary courses must be outside the major.

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