

**Indiana University
New Degree Proposal**

Title: BS/MS in Geology, awarded by Indiana University

Campus: Indianapolis

Academic Unit: School of Science

Department: Earth Sciences

I. Academic Features

Goals/Objectives: To provide well-qualified students with the opportunity for an accelerated program in earth sciences research and instruction. To qualify graduates to compete for positions in Ph.D. programs in the earth sciences and/or leadership positions in corporations providing professional services in the earth and environmental sciences.

Principal Components: Existing 122 credit hour BS program in geology, with waiver of undergraduate capstone course requirement; 30 credit hour MS program, with 21 credit earth sciences core, 3 credits in allied sciences or mathematics, and 6 credits for completion of a research thesis.

Relation to Existing Programs: Both the BS and the MS degree programs and all necessary courses are approved for the IUPUI campus, and currently being offered.

Coherence with Campus Mission: Compatible with IUPUI mission to provide selected graduate programs, utilizing existing programs and resources.

Benefits of the Program for Students, IU, State: This program will be attractive to well-qualified students already enrolled at IUPUI, the majority of whom are residents of central Indiana, and will encourage them to pursue an advanced degree.

Opportunities for Degree Recipients: Accelerated career placement into leadership positions in local companies; accelerated research and academic experiences leading to placement into competitive Ph.D. programs.

II. Implementation

Steady State Enrollment/Degree Completion Projections (year five):

Headcount	2 (0 new to campus)
FTE	2 (0 new to campus)
Degree Recipients	2

Steady State Expenses and Revenue Sources (year five):

<i>Expenses</i>	
Faculty	0 FTE
Support Staff	0 FTE
Supplies and Expense	none
Reallocation	none
<i>One-time Costs</i>	none
<i>Infrastructure Resources</i>	none

III. Academic Plan

The BS/MS program blends the undergraduate BS program with the MS program in Geology, leading to joint award of BS and MS degrees upon completion of the MS thesis. Students will apply to the program in early spring of the junior year of the undergraduate program. Upon acceptance into the program, the student will prepare an MS research and course plan in consultation with a BS/MS academic advisor. Research reading and data collection begins in the summer prior to the senior year of undergraduate study, and will be completed in the following summer. The fifth year of study is devoted to graduate course work and completion of the MS thesis.

Freshman

G110	3	Communication R110	3	29 credit hours
G206	1	Chemistry 105/125	5	
Math 163	5	Math 164	5	
CSCI N207	3	W131	3	
Science 120	1			

Sophomore

G209	3	G222	4	29 credit hours
G221 (or G306)	4	G205	3	
W132	3	Biology N107	4	
Chemistry 106/126	5	History H114	3	
Physics 201-202	10			10 credit hours

Junior

G334	4	G323	3	30 credit hours
G400 elective	3	G400 elective	3	
Biology K341/342	5	Statistics 301	3	
Area III elective	3	Allied Science elective	3	
		Elective	3	
G810 (3)				3 credit hours

Senior/Graduate

G400 elective	3	G400 elective	3	27 credit hours
G500/600 elective	3	G500/600 elective	3	
Allied Science elective	3	Area III elective	3	
Area III elective	3	Integrator elective	3	
Elective	3			
G700 (3) + G810 (3)				6 credit hours

Graduate

G500/600 elective	3	G500/600 elective	3	18 credit hours
G500/600 elective	3	G500/600 elective	3	
Allied Science Elective	3	Elective	3	

BS and MS degrees awarded				152 credit hours
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IV. Enrollment Implementation Plan

Prospective students should have completed three years of an undergraduate degree program in geology, with a minimum B (3.0) average. The Graduate Record Examination (GRE) General Test and three letters of recommendation are required.

The student will submit an unofficial graduate school application, statement of interests and career plans, official GRE scores, and letters of recommendation to the graduate committee of the Department of Earth Sciences.

Undergraduate students admitted to the program will be assigned a three person provisional advisory committee at the completion of the third year of undergraduate work. The provisional committee will prescribe an academic program of study for the MS program and assist the student in developing a research plan, in consultation with the principal research advisor. A B (3.0) average must be maintained in the fourth year of study.

At the conclusion of the fourth year of study, the student's application will be forwarded to the Indiana University Graduate School with a recommendation for admission to the graduate school. Following admission, all rules and regulations of the Indiana University MS program in Earth Sciences at IUPUI will be applicable to completion of the student's research thesis and program of study.