

INDIANA UNIVERSITY

SCHOOL OF EDUCATION

Office of Teacher Education Bloomington

B.S. EDUCATION: SCIENCE (EARTH/SPACE SCIENCE)

This Bachelor of Science in Education degree enables you to teach Middle School/Junior High or High School students. Course requirements for this program are valid at IUB as reflected in the School of Education Bulletin. A four-year college plan requires completion of 15 credits each semester. A 2.5 GPA overall is required for retention and graduation. A total of 120 credits are required for graduation.

3 credits

12 credits

PREREQUISITES FOR ADMISSION TO THE TEP

Competitive enrollment. Meeting minimum requirements does not guarantee enrollment in authorized courses.

- 1. Complete the basic skills testing requirement by using any of the following options:
 - · Qualifying scores on CASA Reading 220, Math 220, Writing 220
 - SAT combined MA+VE score of at least 1100 if test taken prior to March 1, 2016
 - SAT combined MA+VE score of at least 1170 if test taken on or after March 1, 2016
 - ACT composite score of at least 24

Sum of EN + MA + RE + SR scores divided by 4 = 24

- 2. 2.5 GPA overall.
- 3. 21 credits and a 2.5 GPA in the content field with at least 15 credits completed and 6 credits in progress. Grade of C minus (C-) or higher is required in each content field course.
- Completion of or enrollment in prerequisites: Grade of C or higher is required in each EDUC course.

	Course		Credits
	• EDUC-G 203	Communication for Youth Serving	3
		Professionals (S&H)	
	 EDUC-M 300 	Teaching in a Pluralistic Society	3
		(P: English Comp.) (D)	
	 EDUC-P 312 	Learning Theory into Practice	3
		(P: Soph. status)	
	 EDUC-P 313 	Adolescents in a Learning Community	3
		(P: Soph. status)	
	 EDUC-W 200 	Using Computers in Education (IF)	3
5.	Apply to TEP by Octo	ober 1 to enroll in Spring term Block I and	
	EDUC-K 306.		
6.	Access TEP Applicat	tion at: https://education.indiana.edu/	

I. IUB & SCHOOL OF EDUCATION GENERAL EDUCATION REQUIREMENTS

https://gened.indiana.edu/approved-courses/index.html Careful selection & completion of courses with a grade of "C" or higher may allow double counting within General Education, Professional Education &/or Content Field. If you earn a grade lower than a C, please consult with an academic advisor.

English Composition (EC) (Select one) 0-3 credits Grade of C or higher required

CMLT-C 110	Writing the World	3
ENG-W 131	Reading, Writing & Inquiry I OR	3
ENG-W 131	EX Elementary Composition-Exempt	0
ENG-W 170	Intro to Argumentative Writing-Projects in Reading	3
	& Writing	

Intensive Writing Course (IW) (Select one)	3 credits

EDUC-H 205	Intro to Educational Thought (P: English Comp.) (S&H)	3
EDUC-H 340	Education & American Culture (P: Soph. status)	3

3-4 credits Mathematical Modeling (MM)

Complete at least 1 course for at least 3 credits.

	May 20
Arts & Humanities (A&H)	6 credi
Complete at least 2 courses for a total of	f at least 6 credits
Complete at least 2 courses for a total or	at least o cledits.
•	•
Social & Historical Studies (S&H)	6 credi
Complete at least 2 courses for a total of	f at least 6 credits.
•	•
Natural & Mathematical Sciences	(N&M) 5+ credi
Complete ONE of the following option	is.
Option I: Complete at least 2 courses for	or a total of at least 5 credits. At
least 1 of these courses must be a Natur	ral Science (*) course.
•	•
Option II: Complete a 5 credit science co	ourse.
•	
(The class taken to fulfill the Mathematica be counted towards the 5+ credits neede	al Modeling requirement cannot
	·
World Languages (WL)/World Cult Complete ONE of the following option	tures (WC) 6 credi
-	
Option I: Language Study (WL): Compi single language through the second sem	nester of the second-year level o
college-level coursework.	
•	•
Option II: World Culture (WC): Complet	ete at least 2 courses for a total o
at least 6 credits.	
•	•
Option III: International Experience (IE	E): Complete an approved study
abroad program or internship of at least (abroad in duration.	6 credits & at least 6 weeks
•	•
	
Information Fluency (IF)	
	3 credi

EDUC-M 480 Student Teaching: Secondary (12 weeks) 12

Teaching in a Pluralistic Society (P: English Comp.)

Diversity in the U.S. (D)

Enriching Educational Experiences (EEE)

EDUC-M 300

II.	PROFESSIONAL EDUCATION
	51 credits/2.5 GPA

A grade of C or higher is required in each EDUC course. The following courses must be successfully completed before student teaching.

21 credits

3

EDUC-G 203	Communication for Youth Serving Professionals (S&H)	3
EDUC-M 300	Teaching in a Pluralistic Society (P: English Comp.) (D)	3
EDUC-P 312	Learning Theory into Practice (P: Soph. status)	3
EDUC-P 313	Adolescents in a Learning Community	3
	(P: Soph. status)	
EDUC-W 200	Using Computers in Education (IF)	3
EDUC-A 308	Legal and Ethical Issues for Teachers	3
	(P: Soph. status)	
EDUC-H 205	Intro to Educational Thought (P: English Comp.)	3
	(S&H) (IW) OR	
EDUC-H 340	Education & American Culture	3
	(P: Soph. status) (IW)	

Admission to the Teacher Education Program (TEP)	30 credits
is required in order to enroll in the following	
courses:	

EDUC-K 306 Teaching Students with Special Needs: Secondary Classrooms

Courses must be taken in prescribed blocks. Successful completion (C or higher) of all courses in each block is a prerequisite for the next block and student teaching.

Block I and Block II must be completed in sequence from one semester to the next. Students may add an additional semester(s) between the completion of Block II and Student Teaching (Block III).

Block I (Spring	only)	8 credits
EDUC-M 346	Exploring Secondary School Science Teaching	_
EDUC-M 303	Field Experience I	2
EDUC-M 469	Content Area Literacy	3
Block II (Fall only) 6 c		6 credits
EDUC-M 446	Methods of Teaching Jr/Middle/Sr High Schoo Science	1 3
EDUC-M 403	Field Experience II	2
EDUC-S 303	Classroom Management	1
Block III (Student Teaching) 13 credits		

Students may not enroll in other classes while completing student teaching. Exception: EDUC-M 202 Job Search Strategies for Educators

EDUC-M 420	Student Teaching Seminar	1
EDUC-M 480	Student Teaching in the Secondary School	12
	(12 weeks) (FFF)	

III. EARTH/SPACE SCIENCE CONTENT 51-52 credits/2.5 GPA

A grade of C minus (C-) or higher is required in each course.

Check with the department regarding when courses will be offered.

Required Science 20 credits

BIOL-L 111	Foundations of Biology: Diversity, Evolution & Ecology (N&M) OR	4
BIOL-L 112	Foundations of Biology: Biological Mechanisms (P: HS or college chemistry) (N&M)	4
CHEM-C 117	Principles of Chem & Biochem I (P: CHEM-C 101, CHEM-C 121; or CHEM-C 103; or chemistry and	3
	math placement examinations and consent of department) (N&M) AND	
CHEM C 127	Principles of Cham & Riacham I Lah OP	2

CHEM-C 117	Principles of Chem & Biochem I (P: CHEM-C 101, CHEM-C 121; or CHEM-C 103; or chemistry and math placement examinations and consent of	3
	department) (N&M) AND	
CHEM-C 127	Principles of Chem & Biochem I Lab OR	2
CHEM-S 117	Principles of Chem & Biochem I-Honors	5
GEOG-G 304	Physical Climatology	3
HPSC-X 102	Science Revolutions: Plato to NATO (S&H) (WC)	3
PHYS-P 201	General Physics I (P: MATH-M 026) (N&M) OR	5
PHYS-P 221	Physics I (P/C: MATH-M/S 211 or consent of instructor)	5

Earth/Space	Science Major 31-32 c	redits
Complete 6 credits from the following:		
AST-A 100	The Solar System (N&M)	3
AST-A 102	Gravity, the Great Attractor (N&M)	3
AST-A 103	The Search for Life in the Universe (N&M)	3
AST-A 105	Stars and Galaxies (N&M)	3
AST-A 115	Birth and Death of the Universe (N&M)	3
	, ,	3
Complete 3 credits from the following:		
COLL-C 105	Topic: Earth Processes and Planets	3
COLL-C 105	Topic: Records of Global Climate Change	3
COLL-C 105	Topic: Extreme Weather and its Consequences	3
EAS-E 103	Earth Science: Materials and Processes (N&M)	3
EAS-E 104	Evolution of the Earth (N&M)	3
EAS-E 105	Earth: Our Habitable Planet (N&M)	3
EAS-E 111	Journey to the Center of the Earth (P: One high	3
	school or college course in chemistry) (N&M)	
EAS-E 114	Dinosaurs and Their Relatives (N&M)	3
EAS-E 116	Our Planet and Its Future (N&M)	3
EAS-E 118	Sustainability in Water Resources (N&M)	3
EAS-E 121	Origin and Evolution of Mars and Rocky Planetary	3
	Bodies (N&M)	
EAS-E 122	Earth's Dynamic Atmosphere (N&M)	3
EAS-E 131	Oceans and Our Global Environment (N&M)	3
EAS-E 138	Geology of State and National Parks Revealed	3
EAS-E 141	Earthquakes and Volcanoes (N&M)	3
EAS-E 144	Extreme Weather and Its Impacts (N&M)	3
EAS-E 171	Environmental Geology in the Twenty-first Century	3
	(N&M)	
EAS-E 188	Volcanoes of the Sierra Nevada (P: Consent of	3
	instructor)	
EAS-E 227	Earth Climate and History (Fall only)	3
Complete the following:		
EAS-E 225	Earth Materials	4
EAS-E 226	Earth Processes (Spring only)	3
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	credits from the following:	0
EAS-E 308	Paleontology and Geology of Indiana	3
EAS-E 333	Sedimentation and Tectonics (P: One of EAS-E 225	4
	or GEOL-G 225; and one of EAS-E 226 or	
	GEOL-G 226)	_
EAS-E 351	Elements of Hydrology (P: CHEM-C 103, CHEM-C	3
	105, CHEM-C 117, or CHEM-S 117; and PHYS-H	
	221, PHYS-P 201, or PHYS-P 221)	
Complete 3 credits from the following:		
EAS-A 476	Climate Change Science (P: At least two	3
	undergraduate physical science courses or	•
	consent of instructor)	
EAS-E 412	Introduction to Vertebrate Paleontology (P: One	3
2,10 2 112	course from the General Education Natural and	Ü
	Mathematical Sciences course list)	
EAS-E 415	Principles of Geomorphology (P: EAS-E 226 or	3-4
L/10 L 713	GEOL-G 226; and EAS-E 227 or GEOL-G 227)	5 7
EAS-E 418	Igneous and Metamorphic Petrology	3
LAU-L 410	(P: EAS-E 222 or GEOL-G 222)	3
EAS-E 451	Principles of Hydrogeology (P: CHEM-C 117 or	2-4
LAU-L 401	CHEM-S 117; and MATH-M 211 or MATH-S 211)	Z-4
EAS-E 454	Fundamentals of Plate Tectonics (P: EAS-E 333	3
LAU L 404	or GEOL-G 333)	3
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Complete at least <u>6 additional credits</u> of Earth and Atmospheric Sciences at the 300-400 level.

IV. ELECTIVES (To total 120 credits)