

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.

May 2021

PREREQUISITES FOR ADMISSION TO THE TEP

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

- 1. 2.5 GPA overall.
- 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
4.	Apply to TEP by Octo	ober 1 to enroll in Spring term Block I and	
	EDUC-K 306.		
_		ion at https://advaction.indiana.adv/	
Э.	Access TEP Applicat	ion 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 131E	X Elementary Composition-Exempt	0
ENG-W 170	Intro to Argumentative Writing-Projects in Reading	3
	& Writing	

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

Mathematical Modeling (MM) 3-4 credits

Complete at least 1 course for at least 3 credits.

Arts & Humanities (A&H) 6 credits

Complete at least 2 courses for a total of	of at least 6 credits.
•	•

Social & Historical Studies (S&H)	6 credits		
Complete at least 2 courses for a total of at least 6 credits.			
•			
Natural & Mathematical Sciences (N&M) Complete ONE of the following options.	5+ credits		
Option I: Complete at least 2 courses for a total of at least 5 least 1 of these courses must be a Natural Science (*) courses			
•			
Option II: Complete a 5 credit science course.			
•			
(The class taken to fulfill the Mathematical Modeling requirem be counted towards the 5+ credits needed to fulfill the N&M re	nent cannot equirement.)		
World Languages (WL)/World Cultures (WC) Complete ONE of the following options.	6 credits		
Option I: Language Study (WL): Complete the study of an a single language through the second semester of the second-college-level coursework.	approved year level of		
•			
Option II: World Culture (WC): Complete at least 2 courses at least 6 credits.	for a total of		
•			
Option III: International Experience (IE): Complete an approved study abroad program or internship of at least 6 credits & at least 6 weeks abroad in duration.			
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Information Fluency (IF)	3 credits		
EDUC-W 200 Using Computers in Education	3		
Diversity in the U. S. (D)	3 credits		
EDUC-M 300 Teaching in a Pluralistic Society (P: English	Comp.) 3		
Enriching Educational Experiences (EEE)	12 credits		
EDUC-M 480 Student Teaching: Secondary (12 weeks)	12		

II.	PROFESSION A	YL EDI	JCATION
	51 credite	2 5 GI	ο Δ

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

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EDUC-G 203	Communication for Youth Serving Professionals	3
EDUC-M 300	(S&H) 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
EDUC-W 200	(P: Soph. status) Using Computers in Education (IF)	3
EDUC-A 308	Legal and Ethical Issues for Teachers	3
EDUC-H 205	(P: Soph. status)	3
EDUC-H 205	Intro to Educational Thought (P: English Comp.) (S&H) (IW) OR	3
EDUC-H 340		3

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 EDUC-M 303 EDUC-M 469	Exploring Secondary School Science Teaching Field Experience I Content Area Literacy	g 3 2 3
Block II (Fall only) 6		6 credits
EDUC-M 446	Methods of Teaching Jr/Middle/Sr High School Science	1 3
EDUC-M 403	Field Experience II	2
EDUC-S 303	Classroom Management	1
Block III (Stude	nt Teaching) 1	3 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) (EEE)	

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 &	4
	Ecology (N&M) OR	
BIOL-L 112	Foundations of Biology: Biological Mechanisms	4
	(P: HS or college chemistry) (N&M)	
CHEM-C 117	Principles of Chem & Biochem I (P: CHEM-C 101,	3
	CHEM-C 121; or CHEM-C 103; or chemistry and	
	math placement examinations and consent of	
	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

instructor)

General Physics I (P: MATH-M 026) (N&M) OR

Physics I (P/C: MATH-M/S 211 or consent of

PHYS-P 201

PHYS-P 221

Earth/Space Science Major		31-32 credits		
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		
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 Bodies (N&M)	3		
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		
2,10 2 17 1	(N&M)	Ü		
EAS-E 188	Volcanoes of the Sierra Nevada (P: Consent of instructor)	3		
EAS-E 227	Earth Climate and History (Spring)	3		
Complete the i	following:			
EAS-E 225	Earth Materials (Fall)	4		
EAS-E 226	Earth Processes (Fall)	3		
Complete 6-7 credits from the following:				
EAS-E 308	Paleontology and Geology of Indiana	3		
EAS-E 333	Sedimentation and Tectonics (P: One of EAS-E 225	4		
2,10 2 000	or GEOL-G 225; and one of EAS-E 226 or	•		
	GEOL-G 226) (Spring)	_		
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)			
EAS-A 476	edits from the following:	2		
EAS-A 4/6	Climate Change Science (P: At least two undergraduate physical science courses or	3		
EAC E 440	consent of instructor) (Spring) (IW)	2		
EAS-E 412	Introduction to Vertebrate Paleontology (P: One	3		
	course from the General Education Natural and			
TAC T 445	Mathematical Sciences course list)	2.4		
EAS-E 415	Principles of Geomorphology (P: EAS-E 226 or	3-4		
EAC E 440	GEOL-G 226; and EAS-E 227 or GEOL-G 227)	•		
EAS-E 418	Igneous and Metamorphic Petrology	3		
EAC E 454	(P: EAS-E 222 or GEOL-G 222)	0.4		
EAS-E 451	Principles of Hydrogeology (P: CHEM-C 117 or	2-4		
EAC E 454	CHEM-S 117; and MATH-M 211 or MATH-S 211)	2		
EAS-E 454	Fundamentals of Plate Tectonics (P: EAS-E 333 or GEOL-G 333)	3		

Complete at least 6 additional credits of Earth and Atmospheric Sciences at the 300-400 level.

IV. ELECTIVES (To total 120 credits)