

UNDERGRADUATE AND TEACHER EDUCATION

SCHOOL OF 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 2022

6 credits

5+ credits

3 credits

Social & Historical Studies (S&H) PREREQUISITES FOR ADMISSION TO THE TEP Competitive enrollment. Meeting minimum requirements does not Complete at least 2 courses for a total of at least 6 credits. guarantee enrollment in authorized courses. 1. 2.5 GPA overall. 2. 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. Natural & Mathematical Sciences (N&M) 3. Completion of or enrollment in prerequisites: Grade of C or higher is Complete ONE of the following options. required in each EDUC course. **Credits** Course Option I: Complete at least 2 courses for a total of at least 5 credits. At • EDUC-G 203 Communication for Youth Serving least 1 of these courses must be a Natural Science (*) course. Professionals (S&H) Teaching in a Pluralistic Society 3 • EDUC-M 300 (P: English Comp.) (D) Learning Theory into Practice 3 • EDUC-P 312 Option II: Complete a 5 credit science course. (P: Soph. status) • EDUC-P 313 Adolescents in a Learning Community 3 (P: Soph. status) Using Computers in Education (IF) • EDUC-W 200 3 (The class taken to fulfill the Mathematical Modeling requirement cannot 4. Apply to TEP by October 1 to enroll in Spring term Block I and be counted towards the 5+ credits needed to fulfill the N&M requirement.) EDUC-K 306. Access TEP Application at: https://education.indiana.edu/ World Languages (WL)/World Cultures (WC) Complete ONE of the following options

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.

	nposition (EC) (Select one) higher required	0-3 cr	edits
CMLT-C 110	Writing the World		3
ENG-W 131	Reading, Writing & Inquiry I OR		3
ENG-W 1311	EX Elementary Composition-Exempt		0
ENG-W 170	Intro to Argumentative Writing-Projects in Re & Writing	eading	3
Intensive Wr	riting Course (IW) (Select one)	3 cr	edits
EDUC-H 205	Intro to Educational Thought (P: English Cor(S&H)	тр.)	3
EDUC-H 340	Education & American Culture (P: Soph. status)		3
Mathematica	al Modeling (MM)	3-4 cr	edits
Complete at lea	ast 1 course for at least 3 credits.		
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Arts & Huma	anities (A&H)	6 cr	edits

Complete ONE of the following options.
Option I: Language Study (WL): Complete the study of an approved single language through the second semester of the second-year level of college-level coursework.
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Option II: World Culture (WC): Complete at least 2 courses for a total of at least 6 credits.
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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.

Diversity in the U. S. (D)		3 credits
EDUC-W 200	Using Computers in Education	3

Information Fluency (IF)

EDUC-M 300 Teaching in a Pluralistic Society (P: English Comp.)

Enriching Educ	cational Ex	periences ((EEE)	12 credits

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

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

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 EDUC-M 303 EDUC-M 469	Exploring Secondary School Science Teachin Field Experience I Content Area Literacy	g 3 2 3
Block II (Fall only) 6 d		6 credits
EDUC-M 446	Methods of Teaching Jr/Middle/Sr High School	ol 3
EDUC-M 403	Field Experience II	2
EDUC-S 303	Classroom Management	1
Block III (Student Teaching) 13 credit		

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 &	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
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	5
	instructor)	

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		
Complete 3 cr	edits 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 3 3 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		
LAO-L III	school or college course in chemistry) (N&M)	3		
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		
LAS-L 121	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 3 3		
EAS-E 141	Earthquakes and Volcanoes (N&M)	3		
		3		
EAS-E 144 EAS-E 171	Extreme Weather and Its Impacts (N&M)	3		
EAS-E 1/1	Environmental Geology in the Twenty-first Century (N&M)	3		
EAS-E 188	Volcanoes of the Sierra Nevada (P: Consent of	3		
LAO-L 100	instructor)	3		
EAS-E 227	Earth Climate and History (Spring)	3		
Complete the				
EAS-E 225	Earth Materials (Fall)	4		
EAS-E 226	Earth Processes (Fall)	3		
		3		
	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		
	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)			
Complete 3 cr	edits from the following:			
EAS-A 476	Climate Change Science (P: At least two	3		
27.07.170	undergraduate physical science courses or	·		
	consent of instructor) (Spring) (IW)			
EAS-E 412	Introduction to Vertebrate Paleontology (P: One	3		
LAG-L 412	course from the General Education Natural and	3		
EAC E 44 E	Mathematical Sciences course list)	2.4		
EAS-E 415	Principles of Geomorphology (P: EAS-E 226 or GEOL-G 226; and EAS-E 227 or GEOL-G 227)	3-4		
EAS-E 418	Igneous and Metamorphic Petrology	3		
LAU-L 410	(P: EAS-E 225 or GEOL-G 225)	3		
EAS-E 451	Principles of Hydrogeology (P: CHEM-C 117 or	2-4		
	CHEM-S 117; and MATH-M 211 or MATH-S 211)			
EAS-E 454	Fundamentals of Plate Tectonics (P: EAS-E 333	3		
-	or GEOL-G 333)			
Complete at least 6 additional credits of Earth and				

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

IV. ELECTIVES (To total 120 credits)