

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 2017

PREREQUISITES FOR ADMISSION TO THE TEP

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

- 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.
- 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 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.

	required in each EDOC course.				
	Course		Credits		
	• EDUC-M 300	Teaching in a Pluralistic Society (D)	3		
	 EDUC-P 312 	Learning Theory into Practice	3		
	 EDUC-P 313 	Adolescents in a Learning Community	3		
	 EDUC-W 200 	Using Computers in Education (IF)	3		
5.	Apply to TEP by Oct	ober 1 to enroll in Spring term Block I and			
	EDUC-K 306.	, ,			
6	Access TED Applica	tion at: http://education.indiana.edu/			

I. IUB & SCHOOL OF EDUCATION GENERAL EDUCATION REQUIREMENTS

http://gened.iub.edu/courses/genedcourses.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.

Oral Express Grade of C or	3 credits	
ANTH-A 122	Interpersonal Communication (S&H)	3
COLL-P 155	Public Oral Communication	3
EDUC-G 203	Comm. for Youth Serving Professionals (S&H)	3

	position (EC) (Select one) higher required	0-3 credits	
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 Read & Writing	ding 3	

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

Mathematical N	Modeling (MM) (Select one)	3-4 credits
MATH-M/S/V 118	i iiito iiidaiioiiidaoo	3
MATH-D 116	Intro to Finite Mathematics I AND	2
MATH-D 117	Intro to Finite Mathematics II (P: D116)	2 3 3 3
MATH-M 106	Math of Decision and Beauty	3
MATH-J 113	Intro to Calculus with Applications	3
MATH-M 119	Brief Survey of Calculus I	
ИАТН-M/S 211	Calculus I	4
Arts & Humani	ties (A&H)	6 credits
	2 courses for a total of at least 6 credits.	0.00000
Joinpiele al leasi	2 courses for a total of at least o credits.	
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Social & Histor	rical Studies (S&H)	6 credits
	2 courses for a total of at least 6 credits.	
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Natural & Math	ematical Sciences (N&M)	-
	f the following options.	5+ credits
	Japan a	
Option I: Comple	te at least 2 courses for a total of at least 5 of	credits. At
least 1 of these co	ourses must be a Natural Science (*) cours	e.
•	• <u> </u>	
Option II: Comple	ete a 5 credit science course.	

World Languages (WL)/World Cultures (WC)
Complete ONE of the following options.

6 credits

(The class taken to fulfill the Mathematical Modeling requirement cannot

be counted towards the 5+ credits needed to fulfill the N&M requirement.)

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.
• Option II: World Culture (WC): Complete at least 2 courses for a total of
at least 6 credits. • •
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 FI	uency (IF)	3 credits	III. E	EARTH/SPACE SCIENCE CONTENT	
EDUC-W 200	Using Computers in Education	3	A grade Check with the	50 credits/2.5 GPA of C minus or higher is required in each course. e department regarding when courses will be offer	red.
Diversity in th	e U. S. (D)	3 credits	Required Scie		edits
EDUC-M 300	Teaching in a Pluralistic Society (P: Soph.	status) 3	BIOL-E/L 111	Foundations of Biology: Diversity, Evolution & Ecology (N&M) OR	4
Enriching Edu	cational Experiences (EEE)	12 credits	BIOL-E/L 112	(P: HS or college chemistry) (N&M)	4
EDUC-M 480	Student Teaching: Secondary (12 weeks)	12	CHEM-C 117	Principles of Chem & Biochem I (P: CHEM-C 101- C 121 or C 103 or chemistry and math placement exams or consent of the department) (N&M) AND	3
<u>I</u> I	I. PROFESSIONAL EDUCATION		CHEM-C 127	Principles of Chem & Biochem I Lab OR	2
	48 credits/2.5 GPA of C or higher is required in each EDUC		CHEM-S GEOG-G 304	117 Principles of Chem & Biochem I-Honors Physical Climatology (P: G107, G109, G185 or G208; or consent of instructor)	5
The followin	g courses must be successfully comple student teaching.	eted before	HPSC-X 102	Science Revolutions: Plato to NATO	3
		18 credits	HPSC-X 222	(S&H) (WC) OR Big Science in 20 th Century (S&H)	3
		<u>_</u>	PHYS-P 201	General Physics I (P: MATH-M 26) (N&M) OR	5
EDUC-M 300	Teaching in a Pluralistic Society (P: Soph. status) (D)	3	PHYS-P 221	Physics I (P/C: MATH-M/S 211 or consent of instructor)	5
EDUC-P 312	Learning Theory into Practice (P: Soph. s		Earth/Space S	,	edit:
EDUC-P 313	Adolescents in a Learning Community	3		dits from the following:	
EDUC-W 200	(P: Soph. status) Using Computers in Education (IF)	3	AST-A 100	The Solar System (N&M)	3
EDUC-A 308	Legal & Ethical Issues for Teachers (P: Soph. status)	3		Gravity, the Great Attractor: Evolution of Planets, Stars & Galaxies (N&M)	3
EDUC-H 205	Intro to Educational Thought (P: English c	comp) 3		The Search for Life in the Universe (N&M)	3
2000 11 200	(S&H) (IW) OR	σ		Stars & Galaxies (N&M)	3
EDUC-H 340		3		Birth & Death of the Universe (N&M) dits from the following:	3
	(P: English comp & Soph. status) (IN	N)	GEOL-G/S 103	Earth Science: Materials & Processes (N&M)	3
	T E (; B (TED);		GEOL-G 104	Evolution of the Earth (N&M)	3
	e Teacher Education Program (TEP) is	30 credits	GEOL-G 105	Earth: Our Habitable Planet (N&M)	3
required in orde	er to enroll in the following courses:		GEOL-G 111	Physical Geology (P: HS or College CHEM) (N&M)) 3
EDUC-K 306	Teaching Students with Special Needs:	3	GEOL-G 114	Dinosaurs & Their Relatives (N&M)	3
LD00 11 000	Secondary Classrooms	· ·	GEOL-G 116 GEOL-G/S 121	Our Planet & Its Future (N&M) Meteorites & Geological Processes in Planets	3
			GEOL-G/3 121	(N&M)	
	e taken in prescribed blocks. Successf		GEOL-G 131	Oceans & Our Global Environment (N&M)	3
	r higher) of all courses in each block is	а	GEOL-G 141	Earthquakes & Volcanoes (N&M)	3
prerequisite for	the next block and student teaching.		GEOL-G 171	Environmental Geology (N&M)	3
Block I and Bloc	ck II must be completed in sequence, wi	thout	Complete the fo	•	
	m one semester to the next. Students m			Intro to Mineralogy (P/C: College CHEM) (Fall only)	2
	ster(s) between the completion of Block			Intro to Petrology (P: G 221) (Spring only) dits from the following:	2
Student Teachir	ng (Block III).			Environmental & Urban Geology	3
Dia - I- I (Oi		0		(P: 1 GEOL or physical GEOG course)	
Block I (Spring of EDUC-M 346	oniy) Exploring Secondary School Science Te	<u>8 credits</u> aching 3	GEOL-G 302	Dev of the Global Environ (P: College AST, CHEM or	• 3
EDUC-M 303	Field Experience I	2 2		PHYS & MATH-M 118 or higher)	
EDUC-M 469	Content Area Literacy	3		Structural Geol. (P: G 104 or G 112 P/C: G 222) (Spring only)	4
Block II (Fall on	lv)	6 credits		Principles of Sedimentology & Stratigraphy (P: G 222)) 4
EDUC-M 446	Methods of Teaching Jr/Middle/Sr High S			(Fall only)	
	Science			dits from the following:	2
EDUC-M 403	Field Experience II	2		Geobiology (P: One of BIOL-L 111, GEOL-G 308 or GEOL-G 334 or consent of instructor)	3
EDUC-S 303	Classroom Management	1		Invert. Paleontology (P: BIOL-L 111 or L112 and	3
Disability (Occ.)	et Teachine)	40		one 300 or 400 level BIOL or GEOL)	-
Block III (Studer	<u>nt Teaching)</u> ot enroll in other classes while completi	13 credits	GEOL-G 415	Principles of Geomorphology (P: G 222, College	3
	ot enroll in other classes while complete other com			CHEM & MATH or consent of instructor)	
Educators	2000 iii 202 000 06ai 011 Su alegie			Optical Mineralogy (P: G 222)	3
EDUC-M 420	Student Teaching Seminar	1		lgneous & Metamorphic Petrology (P: G 222 or equivalent)	3
EDUC-M 480	Student Teaching in the Secondary Scho			(P: G 222 or equivalent) Geological Information Systems	3
	(12 weeks) (EEE)			Intro to X-ray Mineralogy (P: G 221)	3
				Methods in Analytical Geochemistry)	1-2
			GEOL-G 454	Fund of Plate Tectonics	3
				(P: G 323 & G 334 or consent of instructor)	
			Complete at lea 400 level.	st <u>8 additional credits</u> of GEOL at the 300 or	
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IV. ELECTIVES (To total 120 credits)