Program is under revision to meet the emerging Indiana Rules for Educator Preparation and Accountability (REPA) requirements. Please see an education advisor for more details.

This program sheet is effective for all students starting at IUB beginning summer 2015.



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 4 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 2015

PREREQUISITES FOR AUTHORIZED COURSES

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

- Students may satisfy the Academic Skills Assessment requirements by using any of the following options:
 - · Qualifying scores on CASA

Oral Expression (Select one)

(Grade of C or higher required)

- Reading 220, Math 220, Writing 220
- SAT combined score of at least 1100
 - Sum of MA + VE = 1100
- ACT composite score of at least 24
 - o 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 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 EDU	IC course.		
	Course		Credits	
	 EDUC-M 300 	Teaching in a Pluralistic Society (D)	3	
	 EDUC-P 312 	Learning Theory into Practice AND	3	
	 EDUC-P 313 	(To enroll in P312 and P313 you must	3	
		register for EDUC-BE 312)		
	 EDUC-W 200 	Using Computers in Education (IF)	3	
5.	Apply by October 1 for Spring Semester Block I courses.			
6.	6. Submit TEP Application Online:			
https://info.educ.indiana.edu/teachered/				

I. IUB & SCHOOL OF EDUCATION GENERAL EDUCATION REQUIREMENTS

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

(Careful selection & completion of courses with a "C" or higher grade may allow double counting within General Education, Professional Education &/or Content Field.)

3 credits

ANTH-A 122	3		
COLL-P 155	3		
EDUC-G 203	Comm. for Youth Serving Professionals (S&H)	3	
- " · · ·	· · · · · · · · · · · · · · · · · · ·	1	
English Composition (EC) (Select one)			
(Grade of C or higher required)			
CMLT-C 110	Writing the World	3	
ENG-W 131	Describes Alberta Alberta Alberta Alberta Alberta		
ENG-W 131	Reading, Writing & Inquiry I OR	3	
ENG-W 131		3 0	
		0	
ENG-W 131	EX Elementary Composition-Exempt	0	

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

Mathematical Modeling (MM) (Select one)	3-4 credits
MATH-M/S/V 118 Finite Mathematics MATH-D 116 Intro to Finite Mathematics I AND MATH-D 117 Intro to Finite Mathematics II (P: D116) MATH-J 113 Intro to Calculus with Applications MATH-M 119 Brief Survey of Calculus I MATH-M 211 Calculus I MATH-M 213 Accelerated Calculus	3 2 2 3 3 4 4
Arts & Humanities (A&H)	6 credits
Complete at least 2 courses for a total 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 (*) cours	credits. At se.
•	
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	
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 appr abroad program or internship of at least 6 credits & at least 6 abroad in duration.	oved study weeks

Information E	luency (IE)	3 credits		EARTH/SDACE SCIENCE CONTENT	
Information Fluency (IF)		3 Credits	III. EARTH/SPACE SCIENCE CONTENT 50 credits/2.5 GPA		
EDUC-W 200	Using Computers in Education	3	(C or high	her grade is required in each course listed below.)	
Discounting the state of	11 0 (D)	0	(Check with th	e department regarding when courses will be offe	red.)
Diversity in th	ie U. S. (D)	3 credits	Required Scient		
EDUC-M 300	Teach in a Pluralistic Society (P: Soph. star	nding) 3	BIOL-E/L 111 BIOL-E/L 112	Foundations of Biology: Diversity, Evolution & Ecology (N&M) OR Foundations of Biology: Biological Mechanisms	3
Enriching Edu	ucational Experiences (EEE)	12 credits	DIOL-E/L I I	2 Foundations of Biology: Biological Mechanisms (P: HS or college chemistry) (N&M)	
=======================================	0. 1 . 7 . 11 . 0		CHEM-C 117	Principles of Chem & Biochem I (P: CHEM-C 101-	3
	Student Teaching: Secondary	12	OUEM 0 407	C 121 or C 103 or chemistry and math placement exams or consent of the department) (N&M) AND	0
	II. PROFESSIONAL EDUCATION		CHEM-C 127 CHEM-S	Principles of Chem & Biochem I Lab OR 117 Principles of Chem & Biochem I-Honors	2 5
(C or high	48 credits/2.5 GPA er grade is required in each course listed	l below)	GEOG-G 304	Physical Climatology (P: G107, G109, G185 or	3
(C of flight	er grade is required in each course listed	i below.)	LIDOO V 400	G208; or consent of instructor)	•
TEP Prerequi	site Education Courses	12 credits	HPSC-X 102	Science Revolutions: Plato to NATO (S&H, WC) OR	3
			HPSC-X 222		
EDUC-M 300	Teaching in a Pluralistic Society	3	PHYS-P 201	General Physics I (P: MATH-M 26) (N&M) OR	5
EDUC-P 312	(P: Soph. standing) (D) Learning Theory into Practice (P: Soph. st	anding) 3	PHYS-P 221	Physics I (P/C: MATH-M 211 or consent of instructor)	
	AND		Earth/Space S		edits
EDUC-P 313	Adolescents in a Learning Community	3		dits from the following:	cuito
	(P: Soph. standing) (To enroll in P312 P313 you must register for EDUC-BE	and 2121		The Solar System (N&M)	3
EDUC-W 200	Using Computers in Education (IF)	312)		Gravity, the Great Attractor: Evolution of Planets,	3
		-		Stars & Galaxies (N&M) The Search for Life in the Universe (N&M)	3
Required Non	-Authorized Course	6 credits		Stars & Galaxies (N&M)	3
		<u>.</u>		Birth & Death of the Universe (N&M)	3
EDUC-A 308	Legal & Ethical Issues for Teachers	3		dits from the following:	_
ED110 11 005	(P: Soph. standing)	, ,	GEOL-G/S 103	Earth Science: Materials & Processes (N&M)	3
EDUC-H 205	Intro to Educational Thought (P: English c	omp) 3	GEOL-G 104	Evolution of the Earth (N&M)	3
EDUC-H 340	(S&H) (IW) OR Education & American Culture		GEOL-G 105	Earth: Our Habitable Planet (N&M)	3
LD00-11340	(P: English comp & Soph. standing)	(IW)	GEOL-G 111	Physical Geology (P: HS or College CHEM) (N&M)	3
	(r : English demp a dopili dianality)	<u>,</u>	GEOL-G 114 GEOL-G 116	Dinosaurs & Their Relatives (N&M) Our Planet & Its Future (N&M)	3
Teacher Educ	ation Program (TEP)	30 credits	GEOL-G/S 121	Meteorites & Geological Processes in Planets	3
Completion of T	EP prerequisites is required.			(N&M)	_
These courses r	nust be taken before student teaching.		GEOL-G 131	Oceans & Our Global Environment (N&M)	3
		_	GEOL-G 141	Earthquakes & Volcanoes (N&M)	3
EDUC-K 306	Teaching Students with Special Needs:	3	GEOL-G 171	Environmental Geology (N&M)	3
	Secondary Classrooms		Complete the fo	ollowing:	
Courses must l	be taken in prescribed blocks. Successfo	ıl		Intro to Mineralogy (P/C: College CHEM) (Fall only)	4
	or higher) of all courses in each block is			Intro to Petrology (P: G 221) (Spring only)	4
	the next block and student teaching.			dits from the following:	
		_		Environmental & Urban Geology	3
	ck II must be completed in sequence, wit			(P: 1 GEOL or physical GEOG course)	
	om one semester to the next. Students m ester(s) between the completion of Block			Dev of the Global Environ (P: College AST, CHEM or PHYS & MATH-M 118 or higher)	3
Student Teachi		ii aiiu		Structural Geol. (P: G 104 or G 112 P/C: G 222)	4
			0202 0 020	(Spring only)	•
Block I (Spring		8 credits	GEOL-G 334	Principles of Sedimentology & Stratigraphy (P: G 222)) 4
EDUC-M 346	Exploring Secondary School Science Tea	•		(Fall only)	
EDUC-M 303	Field Experience I	2		dits from the following:	2
EDUC-M 469	Content Area Literacy	3		Geobiology (P: One of BIOL-L 111, GEOL-G 308 or GEOL-G 334 or consent of instructor)	3
Block II (Fall or	nlv)	6 credits		Invert. Paleontology (P: BIOL-L 111 or L112 and	3
EDUC-M 446	Methods of Teaching Jr/Middle/Sr High S			one 300 or 400 level BIOL or GEOL)	Ü
	Science		GEOL-G 415	Principles of Geomorphology (P: G 222, College	3
EDUC-M 403	Field Experience II	2		CHEM & MATH or consent of instructor)	•
EDUC-S 303	Classroom Management	1		Optical Mineralogy (P: G 222)	3
Block III (Stude	nt Teaching)	13 credits	GEOL-G 418	Igneous & Metamorphic Petrology (P: G 222 or equivalent)	3
	not enroll in other classes while completi		GEOL-G 424	Geological Information Systems	3
	eption: EDUC-M 202 Job Search Strategie			Intro to X-ray Mineralogy (P: G 221)	3
Educators)			GEOL-G 444	Methods in Analytical Geochemistry)	1-2
EDUC-M 420	Student Teaching Seminar	1	GEOL-G 454	Fund of Plate Tectonics	3
EDUC-M 480	Student Teaching in the Secondary Scho	ol 12	Complete of lea	(P: G 323 & G 334 or consent of instructor)	
	(EEE)		400 level.	ast <u>8 additional credits</u> of GEOL at the 300 or	

IV. ELECTIVES (To total 120 credits)