This program sheet is effective for all students starting at IUB beginning summer 2020.



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

INDIANA UNIVERSITY

SCHOOL OF EDUCATION Office of Teacher Education Bloomington 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 2020

	Social & Historical Studies (S&H) 6 credits
Competitive enrollment. Meeting minimum requirements does not	
guarantee enrollment in authorized courses.	Complete at least 2 courses for a total of at least 6 credits.
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) 5+ credits
3. Completion of or enrollment in prerequisites: Grade of C or higher is	Complete ONE of the following options.
Course Credits	Ontion I. Complete at least 2 equipage for a total of at least 5 gradity. At
EDUC-G 203 Communication for Youth Serving 3	Option 1 . Complete at least 2 courses for a total of at least 5 credits. At least 1 of these courses must be a Natural Science (*) course
Professionals (S&H)	least 1 of these courses must be a Natural Science () course.
EDUC-M 300 Teaching in a Pluralistic Society 3 (P: English Comp.) (D)	••
EDUC-P 312 Learning Theory into Practice 3 (P: Soph. status)	Option II : Complete a 5 credit science course.
EDUC-P 313 Adolescents in a Learning Community 3 (P: Soph. status)	•
 EDUC-W 200 Using Computers in Education (IF) 3 Apply to TEP by October 1 to enroll in Spring term Block I and EDUC-K 306. 	(The class taken to fulfill the Mathematical Modeling requirement cannot be counted towards the 5+ credits needed to fulfill the N&M requirement.)
5. Access TEP Application at: <u>https://education.indiana.edu/</u>	World Languages (WL)/World Cultures (WC) 6 credits
https://gened.indiana.edu/approved-courses/index.html	single language through the second semester of the second-year level of
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	 single language through the second semester of the second-year level of college-level coursework.
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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.	 single language through the second semester of the second-year level of college-level coursework. <u>Option II: World Culture (WC)</u>: Complete at least 2 courses for a total of at least 6 credits.
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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 0-3 credits CMLT-C 110 Writing the World 3 ENG-W 131 Reading, Writing & Inquiry I OR 3 ENG-W 131EX Elementary Composition-Exempt 0 ENG-W 170 Intro to Argumentative Writing-Projects in Reading 3 Writing Select one) 3 credits EDUC-H 205 Intro to Educational Thought (P: English Comp.) 3 (S&H) EDUC-H 340 Education & American Culture 3 (P: Soph. status) 3-4 credits Complete at least 1 course for at least 3 credits. 3-4 credits	single language through the second semester of the second-year level of college-level coursework.
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Complete at least 2 courses for a total of at least 6 credits.

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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.

	2	1 credits
EDUC-G 203	Communication for Youth Serving Professiona (S&H)	als 3
EDUC-M 300	Teaching in a Pluralistic Society (P: English Comp.) (D)	3
EDUC-P 312	Learning Theory into Practice (P: Soph. status	s) 3
EDUC-P 313	Adolescents in a Learning Community (P: Soph. status)	3
EDUC-W 200	Using Computers in Education (IF)	3
EDUC-A 308	Legal and Ethical Issues for Teachers (P: Soph. status)	3
EDUC-H 205	Intro to Educational Thought (P: English Comp (S&H) (IW) OR	o.) 3
EDUC-H 340	Education & American Culture (P: Soph. status) (IW)	3
Admission to the Teacher Education Program (TEP) 30 credits is required in order to enroll in the following		

is required in order to enroll in the following courses:

EDUC-K 306	Teaching Students with Special Needs:	3
	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 cr		credits	
EDUC-M 346 EDUC-M 303 EDUC-M 469	Exploring Secondary School Science Teaching Field Experience I Content Area Literacy	3 2 3	
Block II (Fall only) 6 cr			
EDUC-M 446	Methods of Teaching Jr/Middle/Sr High School Science	3	
EDUC-M 403	Field Experience II	2	
EDUC-S 303	Classroom Management	1	
Block III (Studen	t Teaching) 13	credits	
Students may no teaching. Except Educators	ot enroll in other classes while completing stu otion: EDUC-M 202 Job Search Strategies for	dent	
EDUC-M 420 EDUC-M 480	Student Teaching Seminar Student Teaching in the Secondary School (12 weeks) (EEE)	1 12	
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 Scier	nce 20	credits	
BIOL-L 111	Foundations of Biology: Diversity, Evolution & Ecology (N&M) OR	4	
BIOL-L 112	Foundations of Biology: Biological Mechanisi (P: HS or college chemistry) (N&M)	ms 4	
CHEM-C 117	Principles of Chem & Biochem I (P: CHEM-C 10 CHEM-C 121; or CHEM-C 103; or chemistry an math placement examinations and consent of department) (N&M) AND	01, 3 d	
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	
PHYS-P 201	General Physics I (P: MATH-M 026) (N&M) OR	-) 3 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)	З		
AST-A 102	Gravity, the Great Attractor (N&M)	3		
AGT-A 102	The Search for Life in the Universe (N&M)	3		
AGT A 105	Store and Coloving (N8 M)	2		
AST-A 105	Stars and Galaxies (INGIN)	3		
AST-A 115	Birth and Death of the Universe (N&W)	3		
Complete 3 ci	redits 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	Farth: Our Habitable Planet (N&M)	3		
EAS-E 111	Journey to the Center of the Earth (P: One high	a a		
	school or college course in chemistry) (N8 M)	5		
EAS E 114	Dinessure and Their Polatives (NSM)	2		
		5		
EAS-E 116		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)			
FAS-F 188	Volcanoes of the Sierra Nevada (P [.] Consent of	3		
	instructor)	Ũ		
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		
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		
	or GEOL-G 225: and one of EAS-E 226 or			
	GEOL-G 226)			
FAS-F 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)			
	221,11101 201,0111101 221)			
Complete <u>3 cr</u>	redits 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		
	course from the General Education Natural and			
	Mathematical Sciences course list)			
FAS-F 415	Principles of Geomorphology (P: FAS-F 226 or	3-4		
	GEOL-G 226 and EAS-E 227 or GEOL-G 227)	•		
FAS-F 418	Igneous and Metamorphic Petrology	3		
2/10 2 410	$(P \cdot F \Delta S \cdot F 222)$ or $G \in O I = G 222$	0		
	Principles of Hydrogoology (P: CHEM C 117 or	2 4		
EAG-E 401	CHEM S 117 and MATH M 211 ar MATH C 211	2-4		
	GIEWI-S 117, and WATH-MIZTTOF MATH-SZ11)	2		
EAO-E 404		3		
	01 GEUL-G 333)			
Complete at l	east 6 additional credits of Farth and			

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

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IV. ELECTIVES (To total 120 credits)