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 (LIFE SCIENCE: BIOLOGY)

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 at least 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 requirement by using any of the following options:
 - · Qualifying scores on CASA
 - 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

https://info.educ.indiana.edu/teachered/

- o Sum of EN + MA + RE + SR scores divided by 4 = 24
- 2. 2.5 GPA overall.

5.

- 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.

Course		Credits
• EDUC-M 300	Teaching in a Pluralistic Society (D)	3
 EDUC-P 312 	Learning Theory into Practice AND	3
 EDUC-P 313 	Adolescents in a Learning Community	3
	(To enroll in P312 and P313 you must	
	register for EDUC-BE 312)	
 EDUC-W 200 	Using Computers in Education (IF)	3
Apply by October 1 fe	or Spring Semester Block I courses.	
Submit TEP Applicat	ion Online:	

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.)

Oral Expression (Select one) (Grade of C or higher required)		
ANTH-A 122	Interpersonal Communication (S&H)	3
COLL-P 155	Public Oral Communication	3
EDUC-G 203	3	
English Composition (EC) (Select one)		3 credits
(Grade of C or higher required)		o cicaito
CMLT-C 110	Writing the World	3
ENG-W 131	Reading, Writing & Inquiry I OR	3
ENG-W 131EX Elementary Composition-Exempt		
ENG-W 170	Intro to Argumentative Writing-Projects in Read	ing 3
	& Writing)	
Intensive Writing Course (IW) (Select one) 3 cm		
ED. 10 11 00 E	lates to Educational Thousand (D. Fasiliah as an)	2

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	3
MATH-D 116 Intro to Finite Mathematics I AND	. 2
MATH-D 117 Intro to Finite Mathematics II (P: D116	
MATH-J 113 Intro to Calculus with Applications	3
MATH-M 119 Brief Survey of Calculus I	3
MATH-M 211 Calculus I	4
MATH-M 213 Accelerated Calculus	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.	0 0.000
Complete at least 2 courses for a total of at least 6 credits.	
•	
Natural 9 Mathematical Calanges (NOM)	
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.	
<u> </u>	
•	
(The class taken to fulfill the Mathematical Modeling requiren	nont cannot
be counted towards the 5+ credits needed to fulfill the N&M r	
be counted towards the 37 credits needed to runni the right	equirement.)
World Languages (WL)/World Cultures (WC)	6 credits
(Complete ONE of the following options.)	0 Credits
Option I: Language Study (WL): Complete the study of an a	approved

single language through the second semester of the second-year level of

Option II: World Culture (WC): Complete at least 2 courses 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

college-level coursework.

at least 6 credits.

abroad in duration.

Information	Fluency (IF)	3 credits	III. L	IFE SCIENCE: BIOLOGY CONTENT	
EDUC-W 200	Using Computers in Education	3		49-60 credits/2.5 GPA her grade is required in each course listed below.)	
Diversity in t	the U. S. (D)	3 credits	(Check with th	e department regarding when courses will be offere	ed.)
	• •		Required Scie	ence 24 cre	dits
EDUC-M 300	Teach in a Pluralistic Society (P: Soph. s	tanding) 3	CHEM-C 117	Principles of Chem & Biochem I – (P: CHEM &	3
Enriching Ed	ducational Experiences (EEE)	12 credits	CHEM-C 127	MATH placement & consent of dept) (N&M) AND Principles of Chem & Biochem I Lab OR	2
EDUC-M 480	Student Teaching: Secondary	12	CHEM-S 11	Honors	5
	II. PROFESSIONAL EDUCATION	N	CHEM-C 118	Principles of Chem & Biochemistry II (P: C117-C127 or C105-C125 or S117) (N&M) OR	5
	48 credits/2.5 GPA		CHEM-N 330	Intermediate Inorganic Chemistry (P: C342,	
(C or hig	her grade is required in each course list	ted below.)	CHEM-C 341	S342, or R340; and C343 or S343) Organic Chem. I Lectures (P: C/S117) OR	3
TFP Preregu	uisite Education Courses	12 credits	CHEM-R 340	Survey of Organic Chemistry (P: C/S117) (Fall)	
TEI TICICAC		12 Cicuits	GEOL-G/S 103 GEOL-G/S 1	Earth Sci: Materials & Processes (N&M) OR 04 Evolution of the Earth (N&M) OR	3
EDUC-M 300	Teaching in a Pluralistic Society	3	GEOL-G 105	Earth: Our Habitable Planet (N&M)	
EDUC-P 312	(P: Soph. standing) (D) Learning Theory into Practice (P: Soph.	standing) 3	HPSC-X 102	Science Revolutions: Plato to NATO (S&H, WC) OR	3
	AND	σ,	HPSC-X 222	Big Science in the 20 th Century (S&H)	
EDUC-P 313	3 Adolescents in a Learning Communit (P: Soph. standing) (To enroll in P31		PHYS-P 201	General Physics I (P: MATH-M026 or HS equiv.) (N&M) OR	5
	P313 you must register for EDUC-L	BE 312)	PHYS-P 221		
EDUC-W 200	Using Computers in Education (IF)	3	1.6.0	05.00	124
Required No	on-Authorized Course	6 credits	Life Science/E	Biology Major 25-36 cre Foundations of Biology: Diversity, Evolution & Ecolog	
EDUC A 200	Local & Ethical laguage for Tapahara	2		(N&M)	-
EDUC-A 308	Legal & Ethical Issues for Teachers (P: Soph. standing)	3	BIOL-E/L 112	Foundations of Biology: Biological Mechanisms (P: HS or college chemistry) (N&M)	3
EDUC-H 205	Intro to Educational Thought	3	BIOL-L 113	Biology Lab (P/C: L112. R: L111)	3
EDUC-H 34	(P: English comp) (S&H) (IW) OR 40 Education & American Culture		BIOL-L 211 BIOL-S 211	Molecular Biology (P: L112 & CHEM-C117) OR Molecular Biology, Honors (P: L112 & CHEM	3 5
	(P: English comp & Soph. standing	g) <u>(IW)</u>	BIOL-3 211	C117) (R: CHEM C341 concurrent)	5
Teacher Edu	ıcation Program (TEP)	30 credits	BIOL-L 311	Genetics (P: L/S211) OR	3 5
	TEP prerequisites is required.	30 Credits	BIOL-S 311 BIOL-L 318	Genetics, Honors (P: L/S211) Evolution (P: L/S211) OR	3
These courses	must be taken before student teaching.		BIOL-S 318	Evolution, Honors (P: L/S211) (Fall)	4
EDUC-K 306	Teaching Students with Special Needs: Secondary Classrooms	3		ture courses and 2 lab courses from the following: ture & Lab Courses count towards both areas.)	
0	the tales is seen with a librarie . Our see	-61	Lecture course	<u>,</u> <u>s</u>	
	t be taken in prescribed blocks. Succes For higher) of all courses in each block i			Fungi (P: L111, & L112) (R: Jr./Sr.) (Fall)	3
	or the next block and student teaching.		BIOL-L 312 BIOL-L 321	Cell Biology (P: L211) Principles of Immunology (P: L211, and CHEM C101	3
Block I and Bl	lock II must be completed in sequence, v	without		or C117. R: L312) (Spring)	
interruption, f	rom one semester to the next. Students	may add an		Intro to Human Genetics (P: A course in genetics) (Fall)	3
	nester(s) between the completion of Blo hing (Block III).	ck II and	BIOL-L 423	Brain, Behavior & Evolution (P: L111 & L112) (Spring)	3
		_		Ecology Lecture (P: L111) (R: L318) (Fall) Microbial Physiology & Biochemistry (P: M250, M255	3
Block I (Spring EDUC-M 346	g only) Exploring Secondary School Science 1	8 credits		or M315 & CHEM-C341) (Spring)	3
EDUC-M 346 EDUC-M 303	Field Experience I	Feaching 3 2	BIOL-M 430	Virology (P: L211) (R: L311 & L312) (Spring)	3
EDUC-M 469	Content Area Literacy	3	BIOL-M 480	Medical Microbiol (P: L211) (R: M250 & M255) (Fall) Microbial & Molecular Genetics (P: L211, M250 &	3 3
Block II (Fall o		6 credits		M255) (Fall) Invertebrate Zoology (P: 1 intro BIOL course) (Fall)	3
EDUC-M 446	Methods of Teaching Jr/Middle/Sr High Science	School 3		Animal Behavior (P: Senior standing)	3
EDUC-M 403	Field Experience II	2		Endocrinology (P: L211) (R: CHEM-C341) (Fall)	3
EDUC-S 303	Classroom Management	1			
	lent Teaching) not enroll in other classes while comple	13 credits			
teaching. (Exc	ception: EDUC-M 202 Job Search Strate				
Educators)	Student Teaching Seminar	1			
EDUC-M 420 EDUC-M 480	Student Teaching Seminar Student Teaching in the Secondary Sc (EEE)				

Lab Courses BIOL-B 352 2 Fungi (P/C: B351) (R: Jr./Sr.) (Fall/Summer) BIOL-L 319 Genetics Lab (P/C: L311) 3 Molecular Biology Lab (P: L211) (Fall) 3 BIOL-L 323 Human Molecular Biology Lab (P: L211) (Spring) Field and Lab Ecology (P: L111) (R/C: 473) (Fall) BIOL-L 324 3 2 BIOL-L 474 Microbiology Laboratory (P: L112) (Fall/Summer) **BIOL-M 315** 2 Microbial Physiology Lab 3 BIOL-M 360 (P: M250, M315 & CHEM C341)(Spring) BIOL-M 435 Viral Tissue Culture Lab (P/C: M430 or consent of 3 instructor) (Spring) BIOL-M 445 Medical Microbiology Lab 3 (P: M315 or M255 and P/C: M440) BIOL-M 485 Microbial and Molecular Genetics Lab (P/C: M480) 3 BIOL-Z 375 Invertebrate Zoology Lab (P: L111 & L112) (Fall) 2 BIOL-Z 469 Endocrinology Lab (P: L211) (R: Z466 & L312) 2 (Spring) BIOT-T 425 Lab in Macromolecules 3 Combined Lecture & Lab Courses Vascular Plants (P: One intro biology course) (Spring) BIOL-B 300 Summer Flowering Plants BIOL-B 364 4-5 (P: One intro biology course) (Summer) BIOL-B 373 Mechanisms of Plant Development (P: L111 & L211) 4 (Fall) BIOL-Z 373 Entomology (P: One intro biology course) 3 BIOL-M 375 Human Parasitology (P: L111 & L112) (Jr/Sr standing 4 or permission of instructor) (Spring) BIOL-L 376 Biology of Birds (P: L111 & L112) Vertebrate Zoology (P: L111 & L112) (Jr/Sr standing BIOL-Z 406 5 or consent of instructor) (Spring) BIOL-P 451 Integrative Human Physiology 4 SPEA-E 455 Limnology (P: College chemistry & biology or 3 permission of instructor) (Fall) ANAT-A 464 Human Tissue Biology (Spring) 4

IV. ELECTIVES (To total 120 credits)