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 2016.

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B.S. EDUCATION: SCIENCE (PHYSICS)

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 2016

PRE	REQUISITES FOR ADMISSION TO THE TE	P	Mathematical Modeling (MM) (Select one)	3-4 credit
(Competit	ive enrollment. Meeting minimum requirements do	pes not		
	guarantee enrollment in authorized courses.)		MATH-M/S/V 118 Finite Mathematics	3
1. Complete	the basic skills testing requirement by using any of	f the	MATH-D 116 Intro to Finite Mathematics I AND	2
following c	options:		MATH-D 117 Intro to Finite Mathematics II (P: D1	16) 2
 Qualifyi 	ng scores on CASA		MATH-J 113 Intro to Calculus with Applications	3
• Rea	ading 220, Math 220, Writing 220		MATH-M 119 Brief Survey of Calculus I	3
	mbined score of at least 1100		MATH-M/S 211 Calculus I	4
	m of MA + VE = 1100			
	mposite score of at least 24		Arts & Humanities (A&H)	6 credit
	m of EN + MA + RE + SR scores divided by $4 = 24$	1	Complete at least 2 courses for a total of at least 6 credits.	
2. 2.5 GPA o				
	and a 2.5 GPA in the content field with at least 15		••	
	and 6 credits in progress. Grade of C minus or high	gner is	· ·	
	each content field course.		Social & Historical Studies (S&H)	6 credit
	n of or enrollment in prerequisites: Grade of C or h	higher is		
	each EDUC course.		Complete at least 2 courses for a total of at least 6 credits.	
<u>Course</u>		<u>Credits</u>		
 EDUC-I 		3	• •	
 EDUC-I 		3	• •	
 EDUC-I 	P 313 Adolescents in a Learning Community	3	Natural & Mathematical Sciences (N&M)	
 EDUC-\ 	N 200 Using Computers in Education (IF)	3		5+ credit
	October 1 for Spring Semester Block I courses.		(Complete ONE of the following options.)	
 Submit TE 	P Application Online:			
	.educ.indiana.edu/teachered/		Option I: Complete at least 2 courses for a total of at least	
			least 1 of these courses must be a Natural Science (*) co	ourse.
mpo.//mic				
nupo.//inte				
	I. IUB & SCHOOL OF EDUCATION		••	
GE	NERAL EDUCATION REQUIREMENTS		••	
GE	NERAL EDUCATION REQUIREMENTS p://gened.iub.edu/courses/genedcourses.html	1		
GE <u>http</u> (Careful selec	NERAL EDUCATION REQUIREMENTS :://gened.iub.edu/courses/genedcourses.html :tion and completion of courses with a grade of "C	<u>l</u> ;" or higher	••	
GE <u>http</u> (Careful selec	NERAL EDUCATION REQUIREMENTS <u>p://gened.iub.edu/courses/genedcourses.html</u> tion and completion of courses with a grade of "C double counting within General Education, Profes	<u>l</u> ;" or higher	••	
GE <u>http</u> (Careful selec	NERAL EDUCATION REQUIREMENTS :://gened.iub.edu/courses/genedcourses.html :tion and completion of courses with a grade of "C	<u>l</u> ;" or higher		
GE <u>http</u> (Careful selec may allow	NERAL EDUCATION REQUIREMENTS ://gened.iub.edu/courses/genedcourses.html :tion and completion of courses with a grade of "C / double counting within General Education, Profes Education and/or Content Field.)	<u>l</u> ;" or higher	(The class taken to fulfill the Mathematical Modeling require	
GE <u>http</u> (Careful selec may allow Oral Expres	NERAL EDUCATION REQUIREMENTS ://gened.iub.edu/courses/genedcourses.html :tion and completion of courses with a grade of "C / double counting within General Education, Profes Education and/or Content Field.) :sion (Select one)	<u> </u> ;" or higher ssional		
GE http (Careful selec may allow Oral Expres (Grade of C c	NERAL EDUCATION REQUIREMENTS ://gened.iub.edu/courses/genedcourses.html :tion and completion of courses with a grade of "C / double counting within General Education, Profes Education and/or Content Field.) :sion (Select one) or higher required)	<u>I</u> " or higher ssional 3 credits	(The class taken to fulfill the Mathematical Modeling requir be counted towards the 5+ credits needed to fulfill the N&N	M requirement.)
GE http (Careful selec may allow Oral Expres (Grade of C c ANTH-A 122	NERAL EDUCATION REQUIREMENTS ://gened.iub.edu/courses/genedcourses.html :tion and completion of courses with a grade of "C / double counting within General Education, Profes Education and/or Content Field.) sistic (Select one) or higher required) Interpersonal Communication (S&H)	<u>I</u> " or higher ssional 3 credits 3	(The class taken to fulfill the Mathematical Modeling requir be counted towards the 5+ credits needed to fulfill the N&M World Languages (WL)/World Cultures (WC)	
GE http (Careful selec may allow Oral Expres (Grade of C c ANTH-A 122 COLL-P 155	NERAL EDUCATION REQUIREMENTS ://gened.iub.edu/courses/genedcourses.html :tion and completion of courses with a grade of "C / double counting within General Education, Profes Education and/or Content Field.) :sion (Select one) or higher required) Interpersonal Communication (S&H) Public Oral Communication	<u>I</u> " or higher ssional 3 credits 3 3	(The class taken to fulfill the Mathematical Modeling requir be counted towards the 5+ credits needed to fulfill the N&N	M requirement.)
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internation	luency (IF)	3 credits		
EDUC-W 200	Using Computers in Education	3		
Diversity in the U. S. (D) 3 credits				
EDUC-M 300	Teaching in a Pluralistic Society (P: Soph. stat	tus) 3		
Enriching Ed	ucational Experiences (EEE)	12 credits		
EDUC-M 480	Student Teaching: Secondary	12		
	II. PROFESSIONAL EDUCATION			
(A grade of	48 credits/2.5 GPA C or higher is required in each course listed	below.)		
Prerequisite	courses for admission to the TEP	12 credits		
EDUC-M 300	Teaching in a Pluralistic Society	3		
EDUC-P 312	(P: Sophomore status) (D) Learning Theory into Practice (P: Soph. statu	ıs) 3		
EDUC-P 313	Adolescents in a Learning Community (P: Sophomore status)	3		
EDUC-W 200	(P. Sopromore status) Using Computers in Education (IF)	3		
Required Nor	n-Authorized Course	6 credits		
EDUC-A 308	Legal & Ethical Issues for Teachers (P: Sophomore status)	3		
EDUC-H 205	Intro to Educational Thought (P: English com (S&H) (IW) OR	p) 3		
EDUC-H 34	D Education & American Culture (P: English comp & Soph. status) (IW)			
Tooobor Edu	notion Brogrom (TED)	30 credits		
Teacher Euu	cation Program (TEP)	SU CIEUILS		
Admission to the	e TEP is required. must be taken before student teaching.			
Admission to the	nust be taken before student teaching. Teaching Students with Special Needs:	3		
Admission to the These courses EDUC-K 306	nust be taken before student teaching. Teaching Students with Special Needs: Secondary Classrooms	3		
Admission to the These courses of EDUC-K 306 Courses must completion (C	nust be taken before student teaching. Teaching Students with Special Needs:	3		
Admission to the These courses I EDUC-K 306 Courses must completion (C prerequisite fo	nust be taken before student teaching. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a r the next block and student teaching.	-		
Admission to the These courses I EDUC-K 306 Courses must completion (C prerequisite fo Block I and Blo interruption, fr	nust be taken before student teaching. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a r the next block and student teaching. bock II must be completed in sequence, witho om one semester to the next. Students may	ut add an		
Admission to the These courses I EDUC-K 306 Courses must completion (C prerequisite fo Block I and Blo interruption, fr additional sem	nust be taken before student teaching. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a r the next block and student teaching. bock II must be completed in sequence, witho om one semester to the next. Students may ester(s) between the completion of Block II a	ut add an		
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III. PHYSICS CONTENT

53 credits/2.5 GPA (A grade of C minus or higher is required in each course.)

(Check with the department regarding when courses will be offere	d.)
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Required Science & Mathematics 23 credits		
BIOL-E/L 111	Foundations of Biology: Diversity, Evolution &	3
	Ecology <u>(N&M)</u> OR	
BIOL-E/L 112	Foundations of Biology: Biological	3
	Mechanisms (P: HS or college chemistry)	
	<u>(N&M)</u>	
CHEM-C 117	Principles of Chem & Biochem I (P: CHEM &	3
	MATH Placement & consent of Dept) (N&M)	
GEOL-G/S 103	Earth Sci: Materials & Processes (N&M) OR	3
GEOL-G 104	Evolution of the Earth (N&M) OR	
GEOL-G 105	Earth: Our Habitable Planet (N&M)	3 3 3
HPSC-X 102	Science Revolutions: Plato to NATO	3
	<u>(S&H, WC)</u> OR	
HPSC-X 222	Big Science in the 20 th Century (S&H)	3
MATH-M/S 211	Calculus I (N&M) (MM)	4
MATH-M/S 212	Calculus II (P: M/S 211) (N&M)	4
MATH-M/S 343	Intro to Differential Equations I (P: M/S 212)	3
Physics Major	3	0 credits
PHYS-P 201	General Physics I	5
	(P: MATH-M 26 or HS equiv.) (N&M) AND	Ū.
PHYS-P 202	General Physics II	5
	(P: P 201 or HS equiv.) <u>(N&M)</u> OR	Ũ
PHYS-P/H 221	Physics I (C: MATH-M/S 211) AND	5
PHYS-P/H 222	Physics II (C: MATH-M/S 212, P: P 22)	-
PHYS-P 301	Physics III	3
111101 001		-

Complete <u>17 credits</u> in Physics at the 300-400 level from the Physics department course listing:

•	 2+
•	 3

(P: P 222 or P 202 with consent of instructor)

IV. ELECTIVES (To total 120 credits)