

INDIANA UNIVERSITY

SCHOOL OF EDUCATION
Office of Teacher Education
Bloomington

B.S. EDUCATION: SCIENCE (PHYSICS)

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

12

PREREQUISITES FOR ADMISSION TO THE TEP

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

- 1. 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 (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-G 203	Communication for Youth Serving	3
		Professionals (S&H)	
	 EDUC-M 300 	Teaching in a Pluralistic Society	3
		(P: English Comp.) (D)	
	 EDUC-P 312 	Learning Theory into Practice	3
		(P: Soph. status)	
	 EDUC-P 313 	Adolescents in a Learning Community	3
		(P: Soph. status)	
	 EDUC-W 200 	Using Computers in Education (IF)	3
4.	Apply to TEP by Octo	ober 1 to enroll in Spring term Block I and	
	EDUC-K 306.	. •	
5.	Access TEP Applicat	tion at: https://education.indiana.edu/	
5.	Access TEP Applicat	ion at: https://education.indiana.edu/	

I. IUB & SCHOOL OF EDUCATION GENERAL EDUCATION REQUIREMENTS

https://gened.indiana.edu/approved-courses/index.html
Careful selection and completion of courses with a grade of "C" or higher
may allow double counting within General Education, Professional
Education and/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	

CMLT-C 110	Writing the World	3
ENG-W 131	Reading, Writing & Inquiry I OR	3
ENG-W 131E	X Elementary Composition-Exempt	0
ENG-W 170	Intro to Argumentative Writing-Projects in Reading	3
	& Writing	

Intensive Writing	Course (IV	W) (Select o	ne)	3 credits

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

Mathematical Modeling (MM) 3-4 credits
--

Complete at least 1 course for at least 3 credits.

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 (*) courses	
•	
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.	
•	
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 apprabroad program or internship of at least 6 credits & at least 6 abroad in duration.	
•	
Information Fluency (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: English	Comp.) 3
Enriching Educational Experiences (EEE)	12 credits

EDUC-M 480 Student Teaching: Secondary (12 weeks)

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.

	student teaching.	
	21	credits
DUC-G 203	Communication for Youth Serving Professionals (S&H)	3
DUC-M 300	Teaching in a Pluralistic Society (P: English Comp.) (D)	3
DUC-P 312 DUC-P 313	Learning Theory into Practice (P: Soph. status) Adolescents in a Learning Community	3 3
EDUC-W 200 EDUC-A 308	(P: Soph. status) Using Computers in Education (IF) Legal and Ethical Issues for Teachers	3 3
EDUC-H 205	(P: Soph. status) Intro to Educational Thought (P: English Comp.) (S&H) (IW) OR	3
EDUC-H 340	` ,` ,	3
	e Teacher Education Program (TEP) is 30 or to enroll in the following courses:	credits
Courses must becompletion (C o	Teaching Students with Special Needs: Secondary Classrooms e taken in prescribed blocks. Successful r higher) of all courses in each block is a the next block and student teaching.	3
Courses must b completion (C o prerequisite for Block I and Bloc emester to the	Secondary Classrooms e taken in prescribed blocks. Successful r higher) of all courses in each block is a	er(s)
Courses must be completion (C o orerequisite for Block I and Blockernester to the	Secondary Classrooms e taken in prescribed blocks. Successful r higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence from one next. Students may add an additional semest mpletion of Block II and Student Teaching (Blo	er(s)
Courses must becompletion (C operequisite for Block I and Blockemester to the petween the cor	secondary Classrooms e taken in prescribed blocks. Successful r higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence from one next. Students may add an additional semest mpletion of Block II and Student Teaching (Blogonly)	er(s) ck III).
DUC-K 306 ourses must bompletion (C orerequisite for lock I and Blocemester to the etween the core LOCK I (Spring DUC-M 346 DUC-M 303	secondary Classrooms e taken in prescribed blocks. Successful r higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence from one next. Students may add an additional semest impletion of Block II and Student Teaching (Blog only) 8 Exploring Secondary School Science Teaching Field Experience I	er(s) ck III). credits
DUC-K 306 ourses must bompletion (C orerequisite for lock I and Blocemester to the etween the core LOCK I (Spring DUC-M 346 DUC-M 303	secondary Classrooms e taken in prescribed blocks. Successful r higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence from one next. Students may add an additional semest impletion of Block II and Student Teaching (Blog only) 8 Exploring Secondary School Science Teaching	er(s) ck III). credits
Courses must be completion (C o prerequisite for Block I and Block emester to the petween the core BLOCK I (Spring EDUC-M 346 EDUC-M 303 EDUC-M 469	e taken in prescribed blocks. Successful r higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence from one next. Students may add an additional semest mpletion of Block II and Student Teaching (Blog only) Exploring Secondary School Science Teaching Field Experience I Content Area Literacy	er(s) ck III). credits
Courses must be completion (C o orerequisite for Block I and Block is mester to the petween the cor	e taken in prescribed blocks. Successful r higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence from one next. Students may add an additional semest mpletion of Block II and Student Teaching (Blog only) Exploring Secondary School Science Teaching Field Experience I Content Area Literacy	er(s) ck III). credits 3 2 3
Courses must be completion (C of prerequisite for Block I and Block I and Block I we consider to the petween the core BLOCK I (Spring EDUC-M 346 EDUC-M 303 EDUC-M 469	e taken in prescribed blocks. Successful r higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence from one next. Students may add an additional semest mpletion of Block II and Student Teaching (Block only) Exploring Secondary School Science Teaching Field Experience I Content Area Literacy Methods of Teaching Jr/Middle/Sr High School	er(s) ck III). credits 3 2 3 credits

Student Teaching Seminar Student Teaching in the Secondary School (12 weeks) (EEE)

1 12

EDUC-M 420

EDUC-M 480

III. PHYSICS CONTENT 54 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 Scien	nce & Mathematics 24	4 credits	
BIOL-L 111	Foundations of Biology: Diversity, Evolution &	4	
BIOL-L 112	Ecology (N&M) OR Foundations of Biology: Biological Mechanisms (P: HS or college chemistry)	4	
CHEM-C 117	(N&M) Principles of Chemistry & Biochemistry I (P: CHEM-C 101, CHEM-C 121; or CHEM-C 103; or chemistry and math	3	
EAS-E 103 EAS-E 104 EAS-E 105 HPSC-X 102	placement examinations and consent of department) (N&M) Earth Sci: Materials & Processes (N&M) OR Evolution of the Earth (N&M) OR Earth: Our Habitable Planet (N&M) Science Revolutions: Plato to NATO (S&H) (WC)	3 3 3 3	
MATH-M/S 211 MATH-M/S 212 MATH-M/S 343	Calculus I (N&M) (MM) Calculus II (P: MATH-M/S 211) (N&M) Introduction to Differential Equations I (P: MATH-M/S 212)	4 4 3	
Physics Major	30) credits	
PHYS-P/H 221 PHYS-P/H 222	Physics I (C: MATH-M/S 211) AND Physics II (C: MATH-M/S 212;	5 5	
PHYS-P 201	P: PHYS-P 221) OR General Physics I (P: MATH-M 026 or HS equiv.) (N&M) AND	5	
PHYS-P 202	General Physics II (P: PHYS-P 201 or Fequiv.) (N&M)	IS 5	
PHYS-P 301	Physics III (P: PHYS-P 222 or PHYS-P 20 with consent of instructor)	2 3	
Complete <u>17 credits</u> in Physics at the 300-400 level from the Physics department course listing:			
•		2+	
•		3	
•		3	
•		3	
•		3	
•		3	

IV. ELECTIVES (To total 120 credits)