



UNDERGRADUATE AND TEACHER EDUCATION

SCHOOL OF 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 2023

PREREQUISITES FOR ADMISSION TO THE TEP

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

- 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 professional EDUC course.

Course		Credits
• EDUC-G 203	Communication for Youth Serving Professionals (S&H)	3
• EDUC-M 300	Teaching in a Pluralistic Society (P: English Comp.) (D)	3
• EDUC-I 251	Learning Theories for Teachers AND	3
• EDUC-M 101	Lab/Field Experience	1
To enroll in 1251 and M101, you must register for EDUC-BC 251.		
• EDUC-P 313	Adolescents in a Learning Community (P: Soph. status)	3
• EDUC-W 200	Using Computers in Education (IF)	3
4. Apply to TEP by October 1 to enroll in Spring term Block I and EDUC-K 306.		
5. Access TEP Application 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 131EX	Elementary Composition-Exempt	0
ENG-W 170	Intro to Argumentative Writing-Projects in Reading & Writing	3

Intensive Writing Course (IW) (Select one) 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) 5+ credits Complete ONE of the following options.

Option I: 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.

• _____

Option II: Complete a 5 credit science course.

• _____

(The class taken to fulfill the Mathematical Modeling requirement cannot be counted towards the 5+ credits needed to fulfill the N&M requirement.)

World Languages (WL)/World Cultures (WC) 6 credits Complete ONE of the following options.

Option I: Language Study (WL): Complete the study of an approved single language through the second semester of the second-year level of college-level coursework.

• _____

Option II: World Culture (WC): Complete at least 2 courses for a total of at least 6 credits.

• _____

Option III: International Experience (IE): Complete an approved study abroad program or internship of at least 6 credits & at least 6 weeks abroad in duration.

• _____

Information Fluency (IF) 3 credits

EDUC-W 200	Using Computers in Education	3
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Diversity in the U. S. (D) 3 credits

EDUC-M 300	Teaching in a Pluralistic Society (P: English Comp.)	3
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Sustainability Literacy (SL) 3 credits

EDUC-M 469	Content Area Literacy	3
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Enriching Educational Experiences (EEE) 12 credits

EDUC-M 480	Student Teaching: Secondary (12 weeks)	12
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II. PROFESSIONAL EDUCATION**51 credits/2.5 GPA**

A grade of C or higher is required in each professional EDUC course.
The following courses must be successfully completed before student teaching.

22 credits

EDUC-G 203	Communication for Youth Serving Professionals (S&H)	3
EDUC-M 300	Teaching in a Pluralistic Society (P: English Comp.) (D)	3
EDUC-I 251	Learning Theories for Teachers AND	3
EDUC-M 101	Lab/Field Experience	1
To enroll in I251 and M101, you must register for EDUC-BC 251.		
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 in Education (P: Soph. status)	3
EDUC-H 205	Intro to Educational Thought (P: English Comp.) (S&H) (IW) OR	3
EDUC-H 340	Education & American Culture (P: Soph. status) (IW)	

Admission to the Teacher Education Program (TEP) is required in order to enroll in the following courses: 29 credits

EDUC-K 306	Teaching Students with Special Needs: Secondary Classrooms	3
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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 credits

EDUC-M 346	Exploring Secondary School Science Teaching	3
EDUC-M 303	Field Experience I	2
EDUC-M 469	Content Area Literacy (SL)	3

BLOCK II (Fall only) 6 credits

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 (Student Teaching) 12 credits

Students may not enroll in other classes while completing student teaching. **Exception: EDUC-M 202 Job Search Strategies for Educators**

EDUC-M 420	Student Teaching Seminar	1
EDUC-M 480	Student Teaching in the Secondary School (12 weeks) (EEE)	11

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 Science & Mathematics 24 credits

BIOL-L 111	Foundations of Biology: Diversity, Evolution & Ecology (N&M) OR	4
BIOL-L 112	Foundations of Biology: Biological Mechanisms (P: HS or college chemistry) (N&M)	4
CHEM-C 117	Principles of Chemistry & Biochemistry I (P: CHEM-C 101, CHEM-C 121; or CHEM-C 103; or chemistry and math placement examinations and consent of department) (N&M)	3
EAS-E 103	Earth Sci: Materials & Processes (N&M) OR	3
EAS-E 104	Evolution of the Earth (N&M) OR	3
EAS-E 105	Earth: Our Habitable Planet (N&M)	3
HPSC-X 102	Science Revolutions: Plato to NATO (S&H) (WC)	3
MATH-M/S 211*	Calculus I (C: PHYS-P/H 221) (N&M) (MM)	4
MATH-M/S 212*	Calculus II (P: MATH-M/S 211) (C: PHYS-P/H 222) (N&M)	4
MATH-M/S 343	Introduction to Differential Equations I (P: MATH-M/S 212)	3

Physics Major 30 credits

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: PHYS-P 221) OR	5
PHYS-P 201	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 HS equiv.) (N&M)	5
PHYS-P 301	Physics III (P: PHYS-P 222 or PHYS-P 202 with consent of instructor)	3

Complete **17 credits** in Physics at the 300-400 level from the Physics department course listing:

• _____	2+
• _____	3
• _____	3
• _____	3
• _____	3
• _____	3

* It is recommend by the Physics dept. to complete MATH-M/S 211 with PHYS-P/H 221 and MATH M/S 212 with PHYS P/H 222 as better preparation for the 300-400 level coursework.

IV. ELECTIVES (To total 120 credits)