



## UNDERGRADUATE AND TEACHER EDUCATION

SCHOOL OF 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 four-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 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 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
- Apply to TEP by October 1 to enroll in Spring term Block I and EDUC-K 306.
- 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 & 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

- 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.

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### Arts & Humanities (A&H) 6 credits

Complete at least 2 courses for a total of at least 6 credits.

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### Social & Historical Studies (S&H) 6 credits

Complete at least 2 courses for a total of at least 6 credits.

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### 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.

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**Option II:** Complete a 5 credit science course.

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(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.

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

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**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.

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### Information Fluency (IF) 3 credits

- EDUC-W 200 *Using Computers in Education* 3

### Diversity in the U. S. (D) 3 credits

- EDUC-M 300 *Teach in a Pluralistic Society (P: English Comp.)* 3

### Sustainability Literacy (SL) 3 credits

- EDUC-M 469 *Content Area Literacy* 3

### Enriching Educational Experiences (EEE) 12 credits

- EDUC-M 480 *Student Teaching: Secondary (12 weeks)* 1
- 2

**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
<b>To enroll in I251 and M101, you must register for EDUC-BC 251.</b>		
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. LIFE SCIENCE/BIOLOGY CONTENT****49-60 credits/2.5 GPA**

A grade of C minus (C-) or higher is required in each course listed below. Check with the department regarding when courses will be offered.

**Required Science****24 credits**

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) AND	3
CHEM-C 127	Principles of Chemistry & Biochemistry I Lab OR	2
CHEM-S 117	Principles of Chemistry & Biochemistry I-Honors	5
CHEM-C 118	Principles of Chem & Biochemistry II (P: CHEM-C 117 and CHEM-C 127; or CHEM-C 105 and CHEM-C 125; or CHEM-S 117) (N&M) OR	5
CHEM-N 331	Intermediate Inorganic Chemistry (P: CHEM-C/S 342 or CHEM-R 340; R: CHEM-C/J 343) AND	3
CHEM-N 337	Intermediate Inorganic Chemistry Laboratory (P or C: CHEM-N 331)	2
CHEM-C 341	Organic Chemistry I Lectures (P: CHEM-C 117 or CHEM-C 243) OR	3
CHEM-R 340	Survey of Organic Chemistry (P: CHEM-C 106, CHEM-C 117, or consent of instructor) (Fall)	
EAS-E 103	Earth Science: 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
PHYS-P 201	General Physics I (P: MATH-M 026 or HS equiv.) (N&M) OR	5
PHYS-P 221	Physics I (C: MATH-M/S 211)	5

**Life Science/Biology Major****25-36 credits**

Course permission requests should be sent to [biougrad@indiana.edu](mailto:biougrad@indiana.edu).

BIOL-L 111	Foundations of Biology: Diversity, Evolution & Ecology (N&M)	4
BIOL-L 112	Foundations of Biology: Biological Mechanisms (P: High school or college chemistry) (N&M)	4
BIOL-L 113	Biology Laboratory (P or C: BIOL-L 112. R: BIOL-L 111)	3
BIOL-L 211	Molecular Biology (P: BIOL-L 112 and CHEM-C 117) OR	3
BIOL-S 211	Molecular Biology, Honors (P: BIOL-L 112 & CHEM-C 117) (R: CHEM-C 341 concurrent)	5
BIOL-L 311	Genetics (P: BIOL-L/S 211) OR	3
BIOL-S 311	Genetics, Honors (P: BIOL-L/S 211 and minimum GPA of 3.300)	5
BIOL-L 318	Evolution (P: BIOL-L 111; and BIOL-L/S 211) OR	3
BIOL-S 318	Evolution, Honors (P: BIOL-L 111; and BIOL-L/S 211) (Fall)	4

Complete 2 lecture courses and 2 lab courses.

See the following for a list of upper level lectures or labs or lecture/lab courses: <https://blogs.iu.edu/hoosierbiology/resources/>

Combined lecture & lab courses count towards both areas.

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**IV. ELECTIVES (To total 120 credits)**