

This program sheet is effective for all students starting at IUB beginning summer 2017.



# 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 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 2017

### PREREQUISITES FOR ADMISSION TO THE TEP

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

- Complete the basic skills testing requirement by using any of the following options:
    - Qualifying scores on CASA  
Reading 220, Math 220, Writing 220
    - SAT combined MA+VE score of at least 1100 if test taken prior to March 1, 2016
    - SAT combined MA+VE score of at least 1170 if test taken on or after March 1, 2016
    - ACT composite score of at least 24  
Sum of EN + MA + RE + SR scores divided by 4 = 24
  - 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 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 | <i>Teaching in a Pluralistic Society (D)</i> | 3       |
| EDUC-P 312 | <i>Learning Theory into Practice</i>         | 3       |
| EDUC-P 313 | <i>Adolescents in a Learning Community</i>   | 3       |
| EDUC-W 200 | <i>Using Computers in Education (IF)</i>     | 3       |
- Apply to TEP by October 1 to enroll in Spring term Block I and EDUC-K 306.
  - Access TEP Application at: <http://education.indiana.edu/>

### I. IUB & SCHOOL OF EDUCATION GENERAL EDUCATION REQUIREMENTS

<http://gened.iub.edu/courses/genedcourses.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.

#### Oral Expression (Select one)

3 credits

Grade of C or higher required

ANTH-A 122	<i>Interpersonal Communication (S&amp;H)</i>	3
COLL-P 155	<i>Public Oral Communication</i>	3
EDUC-G 203	<i>Comm. for Youth Serving Professionals (S&amp;H)</i>	3

#### English Composition (EC) (Select one)

0-3 credits

Grade of C or higher required

CMLT-C 110	<i>Writing the World</i>	3
ENG-W 131	<i>Reading, Writing &amp; Inquiry I OR</i>	3
ENG-W 131EX	<i>Elementary Composition-Exempt</i>	0
ENG-W 170	<i>Intro to Argumentative Writing-Projects in Reading &amp; Writing</i>	3

#### Intensive Writing Course (IW) (Select one)

3 credits

EDUC-H 205	<i>Intro to Educational Thought (P: English comp) (S&amp;H)</i>	3
EDUC-H 340	<i>Education &amp; American Culture (P: English comp &amp; Soph. status)</i>	3

#### Mathematical Modeling (MM) (Select one)

3-4 credits

MATH-M/S/V 118	<i>Finite Mathematics</i>	3
MATH-D 116	<i>Intro to Finite Mathematics I AND</i>	2
MATH-D 117	<i>Intro to Finite Mathematics II (P: D116)</i>	2
MATH-M 106	<i>Math of Decision and Beauty</i>	3
MATH-J 113	<i>Intro to Calculus with Applications</i>	3
MATH-M 119	<i>Brief Survey of Calculus I</i>	3
MATH-M/S 211	<i>Calculus I</i>	4

#### 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)

Complete ONE of the following options.

5+ credits

**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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<b>Information Fluency (IF)</b>	<b>3 credits</b>
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EDUC-W 200	Using Computers in Education	3
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<b>Diversity in the U. S. (D)</b>	<b>3 credits</b>
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EDUC-M 300	Teach in a Pluralistic Society (P: Soph. status)	3
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<b>Enriching Educational Experiences (EEE)</b>	<b>12 credits</b>
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EDUC-M 480	Student Teaching: Secondary (12 weeks)	12
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### II. PROFESSIONAL EDUCATION

**48 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.

**18 credits**

EDUC-M 300	Teaching in a Pluralistic Society (P: Soph. status) (D)	3
EDUC-P 312	Learning Theory into Practice (P: Soph. status)	3
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 & Ethical Issues for Teachers (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: English comp & Soph. status) (IW)	3

<b>Admission to the Teacher Education Program (TEP) is required in order to enroll in the following courses:</b>	<b>30 credits</b>
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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, without interruption, from one semester to the next. Students may add an additional semester(s) between the completion of Block II and Student Teaching (Block III).

<b>Block I (Spring only)</b>	<b>8 credits</b>
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EDUC-M 346	Exploring Secondary School Science Teaching	3
EDUC-M 303	Field Experience I	2
EDUC-M 469	Content Area Literacy	3

<b>Block II (Fall only)</b>	<b>6 credits</b>
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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

<b>Block III (Student Teaching)</b>	<b>13 credits</b>
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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)	12

### III. LIFE SCIENCE: BIOLOGY CONTENT

**49-60 credits/2.5 GPA**

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

<b>Required Science</b>	<b>24 credits</b>
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CHEM-C 117	Principles of Chem & Biochem I – (P: CHEM & MATH placement & consent of dept) (N&M) AND	3
CHEM-C 127	Principles of Chem & Biochem I Lab OR	2
CHEM-S 117	Principles of Chemistry & Biochemistry I-Honors	5
CHEM-C 118	Principles of Chem & Biochemistry II (P: C117-C127 or C105-C125 or S117) (N&M) OR	5
CHEM-N 330	Intermediate Inorganic Chemistry (P: C342, S342, or R340; and C343 or S343)	5
CHEM-C 341	Organic Chem. I Lectures (P: C/S117) OR	3
CHEM-R 340	Survey of Organic Chemistry (P: C/S117) (Fall)	3
GEOL-G/S 103	Earth Sci: Materials & Processes (N&M) OR	3
GEOL-G/S 104	Evolution of the Earth (N&M) OR	3
GEOL-G 105	Earth: Our Habitable Planet (N&M)	3
HPSC-X 102	Science Revolutions: Plato to NATO (S&H) (WC) OR	3
HPSC-X 222	Big Science in the 20 <sup>th</sup> Century (S&H)	3
PHYS-P 201	General Physics I (P: MATH-M026 or HS equiv.) (N&M) OR	5
PHYS-P 221	Physics I (C: MATH-M/S 211)	5

<b>Life Science/Biology Major</b>	<b>25-36 credits</b>
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BIOL-E/L 111	Foundations of Biology: Diversity, Evolution & Ecology (N&M)	4
BIOL-E/L 112	Foundations of Biology: Biological Mechanisms (P: HS or college chemistry) (N&M)	4
BIOL-L 113	Biology Lab (P/C: L112, R: L111)	3
BIOL-L 211	Molecular Biology (P: L112 & CHEM-C117) OR	3
BIOL-S 211	Molecular Biology, Honors (P: L112 & CHEM C117) (R: CHEM C341 concurrent)	5
BIOL-L 311	Genetics (P: L/S211) OR	3
BIOL-S 311	Genetics, Honors (P: L/S211)	5
BIOL-L 318	Evolution (P: L/S211) OR	3
BIOL-S 318	Evolution, Honors (P: L/S211) (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://hoosierbiology.files.wordpress.com/2007/08/lecture-lab-list-10-10-161.pdf>

Combined lecture & lab courses count towards both areas.

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