



# 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 4 year college plan requires completion of 15-16 credits each semester. A 2.5 GPA overall is required for retention and graduation.

General Education	36
Content	43
Professional Education	48
<u>Electives</u>	<u>XX</u>
Total (124 Minimum)	124

June 2009

### ADMISSION TO TEACHER EDUCATION PROGRAM

1. Passing scores on the PRAXIS I test (175 Math, 176 Reading, 172 Writing). **Recommended:** Take the test during your Freshman year or as soon as you decide to become an Education major.
2. 2.5 GPA overall.
3. 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.
4. Completion of or enrollment in prerequisites: Grade of C or higher is required in each EDUC course.
 

EDUC-M 300	<i>Teaching in a Pluralistic Society</i>	3
EDUC-P 312	<i>Learning Theory into Practice</i> <b>AND</b>	3
EDUC-P 313	<i>Adolescents in a Learning Community</i>	3
EDUC-W 200	<i>Using Computers in Education</i>	3
5. Apply by October 1 for Spring Semester Block I courses. NOTE: Competitive enrollment with a limited number of seats in Block I.
6. Submit TEP Application Online:  
<https://info.educ.indiana.edu/teachered/>

### OVERALL PROGRAM REQUIREMENTS (Retention, Student Teaching & Graduation)

- A "C" or higher grade in each professional education and content field course is required.
- All professional education courses must be completed before student teaching.
- A 2.5 GPA in the professional education, content field and overall is required.
- A minimum of 124 college credits must be completed.

### REMINDERS

- PRAXIS I scores take 4-6 weeks for results to be reported.
- Apply by October 1 for Spring Semester Block I courses.
- Register for Student Teaching 1 year in advance of enrollment.
- Apply for Graduation 1 year in advance of completion.
- Register with Education Careers Services during Senior Year.
- Attend Pre-Professional Meeting the semester before Student Teaching.
- Register for PRAXIS II in subject areas in Senior Year.
- Complete CPR/First Aid Requirement for State in Senior Year.
- Apply through IUB to State for License upon Graduation.

### I. GENERAL EDUCATION

**36 credits**

**(Careful selection & completion of courses with a "C" or higher grade may allow double counting in General Education & Content Field.)**

#### ARTS & HUMANITIES **15 credits**

<b>ORAL EXPRESSION (C or higher)</b>		<b>3 credits</b>
CMCL-C 121	<i>Public Speaking</i>	3
CMCL-C 122	<i>Interpersonal Communication</i>	3
EDUC-G 203	<i>Communication in the Classroom</i>	3

<b>WRITTEN EXPRESSION (C or higher)</b>		<b>3 credits</b>
ENG-W 131	<i>Elementary Composition</i>	3
ENG-W 170	<i>Projects in Reading and Writing</i>	3

**INTENSIVE WRITING** **3 credits**  
Refer to the online Schedule of Classes/Special Course Listings: Intensive Writing Courses.

**REMAINING ARTS & HUMANITIES** **6 credits**  
Select 6 credits from A&H\* (Arts & Humanities) courses.

#### NATURAL & MATHEMATICAL SCIENCES **9 credits**

Select 9 credits from N&M\* (Natural & Mathematical) courses.

#### SOCIAL & HISTORICAL STUDIES **9 credits**

Select 9 credits from S&H\* (Social & Historical Studies) courses.

#### CULTURE STUDIES **3 credits**

Select 3 credits from Culture Studies Requirement List A or B\*\*.

\*See College of Arts & Sciences Bulletin, Appendix II: Approved Distribution Courses and major specific planning sheet for recommended selections.

\*\*See College of Arts & Sciences Bulletin, Appendix I: Cultural Studies Requirement Lists.

**II. LIFE SCIENCE/BIOLOGY REQUIREMENTS****43 credits/2.5 GPA****(C or higher grade is required in each course.)**

<b>REQUIRED</b>		<b>40 credits</b>
BIOL-L 111	<i>Intro to Biol: Evolution &amp; Diversity</i>	3
BIOL-L 112	<i>Intro to Biol: Biological Mechanisms (P: HS or college chemistry)</i>	3
BIOL-L 113	<i>Biology Lab (P or C: L112. R: L111)</i>	3
BIOL-L 211	<i>Molecular Biology (P: L112 &amp; CHEM-C117)</i>	3
BIOL-L 311	<i>Genetics (P: L/S211)</i>	3
BIOL-L 318	<i>Evolution (P: L/S311)</i>	3
BIOL-L 473	<i>Ecology (P: L111) (R: L318)</i>	3
CHEM-C 117	<i>Principles of Chemistry &amp; Biochemistry I – (P: Chemistry &amp; Math Placement Exams &amp; consent of department)</i>	5
CHEM-R 340	<i>Survey of Organic Chemistry (P: C117 or C106 or permission of instructor) OR</i>	3
CHEM-C341	<i>Organic Chemistry Lectures I (P: C117 or C106)</i>	3
GEOL-G 103	<i>Earth Science: Materials &amp; Processes OR</i>	3
GEOL-G 104	<i>Evolution of the Earth OR</i>	3
GEOL-G 105	<i>Earth: Our Habitable Planet OR</i>	3
HPSC-X 100	<i>Human Perspective on Science OR</i>	3
HPSC-X 102	<i>Revolutions in Science: Plato to NATO OR</i>	3
HPSC-X 200	<i>Scientific Reasoning OR</i>	3
HPSC-X 222	<i>Big Science in the 20<sup>th</sup> Century</i>	3
PHYS-P 201	<i>General Physics I (P: MATH-M026 or HS equiv.) OR</i>	5
PHYS-P 221	<i>Physics I (C: MATH-M211)</i>	5
<b>ELECTIVE</b>		<b>3 credits</b>
BIOL-B 300	<i>Vascular Plants (P: 1 intro BIOL course)</i>	4
BIOL-B 351	<i>Fungi (P: L111, &amp; L112) (R: Jr./Sr.)</i>	3
BIOL-B 352	<i>Fungi: Lab (P or C: B351) (R: Jr./Sr.)</i>	2
BIOL-B 364	<i>Summer Flowering Plants (P: 1 introductory BIOL course.) (Summer only)</i>	4-5
BIOL-B 373	<i>Mechanisms of Plant Develop (P: L111 &amp; L211)</i>	4
BIOL-L 312	<i>Cell Biology (P: L211)</i>	3
BIOL-L 313	<i>Cell Biology Lab (P: L113 &amp; L211 or CHEM-C 342) (R: BIOL-L 312, CHEM-C 484)</i>	3
BIOL-L 317	<i>Developmental Biology (P: L/S311)</i>	3
BIOL-L 319	<i>Genetics Lab (P or C: L311)</i>	3
BIOL-L 376	<i>Biology of Birds (P: L111 &amp; L112)</i>	4
BIOL-L 433	<i>Tropical Biology (Field Course)</i>	3
BIOL-L 490	<i>Individual Study (P: 2.5 GPA &amp; faculty permission)</i>	3
BIOL-M 250	<i>Microbiology (P: 2 semesters college CHEM) (C: M255) (R: L211) (Fall only)</i>	3
BIOL-M 255	<i>Microbiology Lab (C: M250) (Fall only)</i>	2
BIOL-M 375	<i>Human Parasitology (P: L111 &amp; L112. Jr/ Sr standing, or permission of instructor)</i>	4
BIOL-Z 374	<i>Invertebrate Zoology (P: 1 intro BIOL course)</i>	3
BIOL-Z 406	<i>Vertebrate Zoology (P: L111 &amp; L112, Jr/Sr standing, or consent of Instructor)</i>	5
GEOL-G 411	<i>Invertebrate Paleontology (P: L111 or L112 &amp; one 300-400 level BIOL or GEOL course) (Spring only)</i>	3
SPEA-E 410	<i>Introduction to Environmental Toxicology (P: any organismal biology course.)</i>	3
SPEA-E 442	<i>Habitat Analysis-Terrestrial (Field Course)</i>	3
SPEA-E 443	<i>Habitat Analysis-Aquatic (Field Course)</i>	3
SPEA-E 455	<i>Limnology (P: College BIOL &amp; CHEM)</i>	4
SPEA-E 457	<i>Introduction to Conservation Biology (P: a 300-level ecology course)</i>	3

**III. PROFESSIONAL EDUCATION****48 credits/2.5 GPA****(C or higher grade is required in each course.)**

<b>REQUIRED NON-AUTHORIZED COURSES</b>		<b>3 credits</b>
<b>This course must be taken before student teaching:</b>		
EDUC-H 340	<i>Education &amp; American Culture</i>	3
<b>PREREQUISITE EDUCATION COURSES</b>		<b>12 credits</b>
<b>These courses must be taken before admission to the TEP.</b>		
EDUC-M 300	<i>Teaching in a Pluralistic Society</i>	3
EDUC-P 312	<i>Learning Theory into Practice AND</i>	3
EDUC-P 313	<i>Adolescents in a Learning Community</i>	3
EDUC-W 200	<i>Using Computers in Education</i>	3
PRAXIS I Admission Tests (175 Math, 176 Reading, 172 Writing)		
<b>TEACHER EDUCATION PROGRAM</b>		<b>33 credits</b>
Admission to TEP is required for remaining courses.		
<b>These courses must be taken before student teaching. (A308 may be taken with Block I or Block II. K306 is recommended with Block II.)</b>		
EDUC-A 308	<i>School Law: Secondary</i>	3
EDUC-K 306	<i>Teaching Students with Special Needs: Secondary Classrooms</i>	3
<b>Courses must be taken in prescribed blocks. Successful completion of all courses in each Block is a prerequisite for the next Block and student teaching.</b>		
<b>Block I and Block II must be successfully completed (C or Better) 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>		
<b>BLOCK I (Spring only)</b>		<b>8 credits</b>
EDUC-M 346	<i>Exploring School Science Teaching</i>	3
EDUC-M 303	<i>Field Experience I</i>	2
EDUC-M 469	<i>Content Area Literacy</i>	3
<b>BLOCK II (Fall only)</b>		<b>6 credits</b>
EDUC-M 446	<i>Methods of Teaching Jr/Md/Sr High Science</i>	3
EDUC-M 403	<i>Field Experience II</i>	2
EDUC-S 303	<i>Classroom Management/Sec.</i>	1
<b>BLOCK III (Student Teaching)</b>		<b>13 credits</b>
EDUC-M 420	<i>Professional Development Seminar</i>	1
EDUC-M 480	<i>Student Teaching</i>	12

**IV. ELECTIVES (To Total 124 credits)**