Program is under revision to meet the emerging Indiana Rules for Educator Preparation and Accountability (REPA) requirements. Please see an education advisor for more details.

This program sheet is effective for all students starting at IUB beginning summer 2013.

B.S. EDUCATION: ELEMENTARY EDUCATION: THEORY INTO PRACTICE

The Bachelor of Science in Elementary Education leads to a generalist license to teach in grades K-6. Course requirements for this program are valid at IUB as reflected in the School of Education Bulletin. A 4 year college plan of 120 credits requires completion of 15 credits each semester. The following are required for retention, student teaching and graduation: a 2.0 GPA in each content area; a 2.5 in the Area of Concentration and overall; and a grade of C or higher in Area of Concentration and all professional education courses.

May 2013-MD

GENERAL EDUCATION REQUIREMENTS
http://gened.iub.edu/courses/genedcourses.html
(Careful selection & completion of courses with a "C" or higher grade may allow double counting within General Education, Professional Education &/or Content Field.)

1. Foundations
   - English Composition (EC) 3
   - Mathematical Modeling (MM) 3

2. Breadth of Inquiry
   - Arts & Humanities (A&H) 6
   - Social & Historical Studies (S&H) 6
   - Natural & Mathematical Sciences (NSM) 5-6
     - Option I: Two courses with one a Natural Science (NS) OR
     - Option II: One 5 hr Science with a lab (LAB)

3. World Languages & Cultures
   - Option I: Language Study (WL) OR
   - Option II: World Culture (WC) OR
   - Option III: International Experience (IE)

4. Shared Goals for the School of Education
   - Intensive Writing (IW) (EDUC-H 205 or H 340) 3
   - Information Fluency (IF) (EDUC-W 200) 3
   - Diversity in the United States (D) (EDUC-E 300) 3
   - Enriching Educational Experiences (EEE) (EDUC-M 425) 13

ADMISSION REQUIREMENTS
(Competitive enrollment. Meeting the minimum requirements does not guarantee admission.)

1. Students may satisfy the Academic Skills Assessment requirement for admission to the TEP by using any of the following options:
   - Qualifying scores on CASA (taken after Sept. 1, 2013)
     - Reading 220, Math 220, Writing 220
   - Qualifying scores on PRAXIS I (if taken before Sept. 1, 2013)
     - Reading 176, Writing 172, Math 175
       - PRAXIS I combined score of at least 527 (if taken before Sept. 1, 2013)
       - Sum of Reading + Writing + Math scores = 527
   - SAT combined score of at least 1100
     - Sum of MA + VE = 1100
       - ACT composite score of at least 24
       - Sum of EN + MA + RE + SR scores divided by 4 = 24

2. 2.5 GPA overall.

3. Applicants must have completed or be enrolled in 26+ credits of coursework including the following:
   - Elementary School Child (EDUC-P 248) 3
   - Educational Psychology for Elem Teachers & Lab/Field Experience (EDUC-P 251 & M 101) 4
   - Technology (EDUC-W 200) 3
   - Math 1 (EDUC-N 101 or MATH-T 101) 3
   - Math 2 (MATH-M/SV 118 or D 116 & D 117 or EDUC-N102 or MATH-T102) 3-4
   - Math 3 (EDUC-N 103 or MATH-T 103) 3
   - Scientific Inquiry (EDUC-Q 200) 3
   - Science (See list for options) 3

4. Apply by October 1 for Spring Semester or March 1 for Fall Semester.

5. Submit TEP Application Online: https://info.educ.indiana.edu/teachered/

I. CONTENT REQUIREMENTS
42-46 credits

Language Arts (2.0 GPA) 6-9 credits

Oral Expression (Select one) (Grade of C or higher required)
   - CMCL-C 121 Public Speaking (A&H) 3
   - CMCL-C 122 Interpersonal Communication (S&H) 3
   - EDUC-G 203 Communication in the Classroom (S&H) 3

English Composition (EC) (Select one) (Grade of C or higher required)
   - CMLT-C 110 Writing the World 3
   - ENG-W 131 Elementary Composition OR
   - ENG-W 131ES Elementary Composition-Exempt 0
   - ENG-W 170 Projects in Reading and Writing 3

American/World Literature (Select one)
   - AAAD-A 379 Early Black American Writing 3
   - CMLT-C 340 Women in World Literature 3
   - ENG-L 111 Discovering Literature (A&H) 3
   - ENG-L 203 Introduction to Drama (A&H) 3
   - ENG-L 204 Introduction to Fiction (A&H) 3
   - ENG-L 205 Introduction to Poetry (A&H) 3
   - ENG-L 206 Introduction to Prose (Excluding Fiction) (A&H) 3
   - ENG-L 210 Studies in Popular Lit & Mass Media (A&H) 3
   - ENG-L 213 Literary Masterpieces I (A&H) 3
   - ENG-L 214 Literary Masterpieces II (A&H) 3
   - ENG-L 240 Literature & Public Life (A&H) 3
   - ENG-L 257 Twentieth Century Am. Poetry 3
   - ENG-L 358 American Literature 1914-1960 3
   - ENG-L 364 Native American Literature 3
   - ENG-L 369 Studies in British & American Authors 3

Fine Arts (2.0 GPA) 6 credits

Music
   - MUS-E 241 Intro to Music Fundamentals 3

Art (Select one)
   - EDUC-M 135 Self Instruction in Art 3
   - EDUC-M 200 Artifacts & Museums in Everyday Life (A&H) 3
   - FINA-N 110 Intro to Studio Art for Non-majors (A&H) 3

Mathematics (2.0 GPA) 9-10 credits

   - EDUC-N 101 Teach & Learn Elem School Math OR 3
   - MATH-T 101 Mathematics for Elem. Teachers I 3
   - EDUC-N 102 Teach & Learn Elem School Math I (P: EDUC-N101 or MATH-T101 with a C or better) OR 3
   - MATH-T 102 Mathematics for Elem Teachers II (P: EDUC-N101 or MATH-T101 with a C or better) OR 3
   - MATH-M/SV 118 Finite Mathematics (MM) OR 3
   - MATH-D 116/D117 Intro. to Finite Math I & II (MM) 4
   - EDUC-N 103 Teach & Learn Elem School Math II (P: EDUC-N101 or MATH-T101 with a grade of C or higher) OR 3
   - MATH-T 103 Mathematics for Elem. Teachers III (P: EDUC-N101 or MATH-T101 with a grade of C or higher) 3
### Science (2.0 GPA) 12 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-Q 201</td>
<td>Biological Science for Elem. Teachers (P: EDUC-Q 200)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-Q 200</td>
<td>Intro to Scientific Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-G/S 103</td>
<td>Earth Sci: Mat. &amp; Processes (N&amp;M) (NS) OR</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-G/S 104</td>
<td>Evolution of the Earth (N&amp;M) (NS) OR</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-G 105</td>
<td>Earth, Our Habitable Planet (N&amp;M) (NS)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS-P 199</td>
<td>Physical Science through Inquiry (N&amp;M) (NS)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Social Studies (2.0 GPA) 9 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST-H 105</td>
<td>American History I (S&amp;H)</td>
<td>3</td>
</tr>
<tr>
<td>HIST-H 106</td>
<td>American History II (S&amp;H)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Authorized Courses 41 credits

Courses must be taken in prescribed clusters. Successful completion (C or higher grade) of all courses in each cluster is a prerequisite for the next cluster and student teaching.

Clusters must be completed in sequence, without interruption, from one semester to the next. Students may add an additional semester(s) between the completion of the Social Studies Cluster and Student Teaching.

#### Cluster I: Language Arts & Reading I 8 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-E 339</td>
<td>Methods of Teach Lang. Arts in Elem. (FRN, GER or World Lang.)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-E 340</td>
<td>Methods of Teaching Reading I (FRN, GER or World Lang.)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-M 301</td>
<td>Lab/Field Experience</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Cluster II: Math & Science (P/C: PHYS-P 199) 11 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-E 328</td>
<td>Science in Elem Schools</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-E 343</td>
<td>Mathematics in Elementary Schools</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-M 201</td>
<td>Lab/Field Experience</td>
<td>2</td>
</tr>
<tr>
<td>EDUC-K 305</td>
<td>Teaching the Exceptional Learner</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Cluster III: Social Studies & Reading Instruction 9 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-E 325</td>
<td>Social Studies in Elementary Schools</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-M 401</td>
<td>Lab/Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-X 460</td>
<td>Books for Reading Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Student Teaching 13 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-M 420</td>
<td>Student Teaching Seminar</td>
<td>1</td>
</tr>
<tr>
<td>EDUC-M 425</td>
<td>Student Teaching Elem (15 weeks)</td>
<td>12</td>
</tr>
</tbody>
</table>

### III. AREA OF CONCENTRATION, ACADEMIC MINOR OR LICENSE ADDITION 15-32 credits/2.5 GPA

#### (Select one) (Grade of C or higher required in each course.)

| Areas of Concentration that meet the 120 hr requirement |
|--------------------------------------------------------|-----------------------------------------------------|
| Language Arts (Elem. Comp. & Am/World Lit. Double Count)| 15                                                  |
| The Arts (Music Fundamentals & Art Options Double Count)| 15                                                  |
| Math (Math series N/T101, N/T102 & N/T 103 Double Count)| 15                                                  |
| Science (Biology, Geology & Physics Double Count)       | 15                                                  |
| Social Studies (US History, World Civ. & Social Studies Elective Double Count) | 15 |

#### Academic Minors that require more than 120 hrs

- Astronomy 17
- Geography 15
- Physics 18
- Biology 15
- Geology 15
- Political Sci. 18
- Chemistry 17
- Health Ed. 15
- Psychology 15-19
- Economics 18
- History 15
- Sociology 15
- English 15
- Math 16
- World Lang. 15
- Fine Arts 15
- (FRN, GER or HISP)

#### License Additions that require more than 120 hrs

- Computer Educator 21
- English as a New Language 22
- Mathematics for Middle School 32
- Reading 18

### IV. ELECTIVES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-A 308</td>
<td>Legal &amp; Ethical Issues in Education (P: Soph Standing)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-E 300</td>
<td>Elem. Ed. for a Pluralistic Society (P: Soph. Standing) (D)</td>
<td>3</td>
</tr>
</tbody>
</table>
ELEMENTARY EDUCATION: AREA OF CONCENTRATION, ACADEMIC MINOR OR LICENSE ADDITION

Choose ONE subject area to study in depth as an Area of Concentration, Academic Minor or License Addition. Courses completed in the Content Area can double count in the Area of Concentration, Academic Minor or License Addition. A “C” or higher grade is required in each course. You must maintain a 2.5 GPA in the area you select.

Check the College of Arts & Sciences Bulletin for pre-requisite courses.

NOTE: The Area of Concentration or Academic Minor are not intended to be a subject specific teaching license. It will not appear on your academic transcript or teaching license.

May 2013-MD

Areas of Concentration
(These five basic content fields incorporate 5-9 credit hours of course work that double count in the content area and the area of concentration which will allow the student to complete the program in 120 hrs.)

<table>
<thead>
<tr>
<th>Language Arts (2.5 GPA)</th>
<th>15 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-E 341</td>
<td>Methods of Teaching Reading II (P: EDUC-E340)</td>
</tr>
<tr>
<td>EDUC-X 470</td>
<td>Psycholinguistics for Teachers of Reading</td>
</tr>
<tr>
<td><strong>Complete 1 of the following:</strong> (If exempt from ENG-W131 due to ACT/SAT scores, complete CMLT-C110 or ENG-W170)</td>
<td></td>
</tr>
<tr>
<td>CMLT-C 110</td>
<td>Writing the World (EC)</td>
</tr>
<tr>
<td>ENG-W 131</td>
<td>Elementary Composition (EC)</td>
</tr>
<tr>
<td>ENG-W 170</td>
<td>Projects in Reading &amp; Writing (EC)</td>
</tr>
<tr>
<td><strong>Complete 2 of the following:</strong></td>
<td></td>
</tr>
<tr>
<td>AAAD-A 379</td>
<td>Early Black American Writing</td>
</tr>
<tr>
<td>CMLT-C 340</td>
<td>Women in World Literature</td>
</tr>
<tr>
<td>ENG-L 111</td>
<td>Discovering Literature (A&amp;H)</td>
</tr>
<tr>
<td>ENG-L 203</td>
<td>Introduction to Drama (A&amp;H)</td>
</tr>
<tr>
<td>ENG-L 204</td>
<td>Introduction to Fiction (A&amp;H)</td>
</tr>
<tr>
<td>ENG-L 206</td>
<td>Introduction to Poetry (A&amp;H)</td>
</tr>
<tr>
<td>ENG-L 208</td>
<td>Introduction to Prose (Excluding Fiction) (A&amp;H)</td>
</tr>
<tr>
<td>ENG-L 210</td>
<td>Studies in Popular Lit &amp; Mass Media (A&amp;H)</td>
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<td>ENG-L 213</td>
<td>Literary Masterpieces I (A&amp;H)</td>
</tr>
<tr>
<td>ENG-L 214</td>
<td>Literary Masterpieces II (A&amp;H)</td>
</tr>
<tr>
<td>ENG-L 240</td>
<td>Literature &amp; Public Life (A&amp;H)</td>
</tr>
<tr>
<td>ENG-L 357</td>
<td>Twentieth Century Am. Poetry</td>
</tr>
<tr>
<td>ENG-L 358</td>
<td>American Literature 1914-1960</td>
</tr>
<tr>
<td>ENG-L 364</td>
<td>Native American Literature</td>
</tr>
<tr>
<td>ENG-L 369</td>
<td>Studies in British &amp; American Authors</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mathematics (2.5 GPA)</th>
<th>15-16 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-M/S/V 118</td>
<td>Finite Mathematics (P: 2 yrs. HS algebra or M014) (MM) OR</td>
</tr>
<tr>
<td>MATH-D 116</td>
<td>Intro. to Finite Math I AND</td>
</tr>
<tr>
<td>MATH-D 117</td>
<td>Intro to Finite Math II (P: C- or better in D116) (MM)</td>
</tr>
<tr>
<td>EDUC-N 101</td>
<td>Teach &amp; Learn Elem School Math (P: M014, M018 or a score of at least 10 on the Math Skills Assessment Exam.) OR</td>
</tr>
<tr>
<td>MATH-T 101</td>
<td>Mathematics for Elem. Teachers I (P: M014, M018 or a score of at least 10 on the Math Skills Assessment Exam.)</td>
</tr>
<tr>
<td>EDUC-N 102</td>
<td>Teach &amp; Learn Elem School Math II (P: EDUC-N101 or MATH-T101 with a grade of C or higher) OR</td>
</tr>
<tr>
<td>MATH-M 119</td>
<td>Brief Survey of Calculus I (P: 2 yrs. HS algebra or M014) (N&amp;M) OR</td>
</tr>
<tr>
<td>MATH-M 211</td>
<td>Calculus I (P: 2 yrs. HS algebra, 1 yr. HS geometry, pre-calc. math (or equiv.), &amp; trig.; or both M025 &amp; M026) (N&amp;M)</td>
</tr>
<tr>
<td>EDUC-N 103</td>
<td>Teach &amp; Learn Elem School Math II (P: EDUC-N101 or MATH-T101 with a grade of C or higher) OR</td>
</tr>
<tr>
<td>MATH-T 103</td>
<td>Mathematics for Elem. Teachers III (P: EDUC-N101 or MATH-T101 with a grade of C or higher)</td>
</tr>
<tr>
<td>EDUC-N 443</td>
<td>Teaching Elementary Math Problem Solving (P/C: EDUC-E343) (Spring only)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Science (2.5 GPA)</th>
<th>15-17 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST-A 100</td>
<td>The Solar System (N&amp;M) OR</td>
</tr>
<tr>
<td>CHEM-C 100</td>
<td>The World as Chemistry (N&amp;M)</td>
</tr>
<tr>
<td>BIOL-Q 201</td>
<td>Biological Science for Elem. Teachers (P: EDUC-Q 200)</td>
</tr>
<tr>
<td>GEOL-G/S 103</td>
<td>Earth Sci: Mat. &amp; Processes (N&amp;M) OR</td>
</tr>
<tr>
<td>GEOL-G/S 104</td>
<td>Evolution of the Earth (N&amp;M) OR</td>
</tr>
<tr>
<td>GEOL-G 105</td>
<td>Earth, Our Habitable Planet (N&amp;M)</td>
</tr>
<tr>
<td>PHYS-P 199</td>
<td>Physical Science through Inquiry (N&amp;M)</td>
</tr>
<tr>
<td>EDUC-Q 405</td>
<td>Integrated Sciences for Science Education (P: EDUC-E328) (Offered for the 1st time Fall 2016)</td>
</tr>
</tbody>
</table>

**Complete 2 of the following:**
| EDUC-M 235        | Looking At & Talking About Art | 3 |
| EDUC-M 335        | Method & Materials of Music: K-12 | 3 |
| MUS-E 241         | Intro to Music Fundamentals (Double Counts) | 3 |
| EDUC-M 135        | Self-Instruction in Art | 3 |
| EDUC-M 200        | Artifacts & Museums in Everyday Life (A&H) | 3 |
| FINA-N 110        | Intro to Studio Art for Non-majors (A&H) | 3 |
Social Studies (2.5 GPA) 15 credits

Required (Complete both)
- GEOG-G 110 Introduction to Human Geography (S&H) 3
- POLS-Y 103 Introduction to American Politics (S&H) 3

U.S. History (Select one)
- HIST-H 105 American History I (S&H) 3
- HIST-H 106 American History II (S&H) 3

World Civilization (Select one)
- ANTH-E 205 Peoples of the World (WC) 3
- FOLK-F 111 World Music & Culture (A&H, WC) 3
- GEOG-G 120 World Regional Geography (S&H) 3
- HIST-B 200 Issues in Western European History (S&H, WC) 3
- HIST-H 101 World in 20th Century I (S&H, WC) 3
- HIST-H 102 World in 20th Century II (S&H, WC) 3
- HIST-H 103 Europe: Renaissance to Napoleon (S&H, WC) 3
- HIST-H 104 Europe: Napoleon to Present (S&H, WC) 3
- HIST-H 205 Ancient Civilization 3
- HIST-H 206 Medieval Civilization (S&H, WC) 3
- HIST-H 240 History of World Populations 3
- INTL-I 203 Global Development (S&H, WC) 3
- INTL-I 206 Identity & Conflict (S&H, WC) 3

Social Studies Elective (Select one not taken above)
- HIST-B 200 Issues in Western European History (S&H, WC) 3
- HIST-C 210 Making of the Modern Middle East (S&H, WC) 3
- HIST-H 101 World in 20th Century I (S&H, WC) 3
- HIST-H 102 World in 20th Century II (S&H, WC) 3
- HIST-H 103 Europe: Renaissance to Napoleon (S&H, WC) 3
- HIST-H 104 Europe: Napoleon to Present (S&H, WC) 3
- HIST-H 205 Ancient Civilization 3
- HIST-H 206 Medieval Civilization (S&H, WC) 3
- HIST-H 211 Latin Amer Culture & Civilization I (S&H, WC) 3
- HIST-H 240 History of World Populations 3
- INTL-I 100 Intro to International Studies (S&H, WC) 3
- INTL-I 203 Global Development (S&H, WC) 3
- INTL-I 204 Human Rights & International Law (S&H, WC) 3
- INTL-I 206 Identity & Conflict (S&H, WC) 3
- LTAM-L 210 The Latin American Experience (S&H, WC) 3
- NELC-N 204 Topics in Middle Eastern Culture & Society (S&H, WC) 3

Academic Minors
(A student may choose to complete an Academic Minor but it will require the completion of more than 120 hrs.)

Course requirements for each minor listed below can be found in the College of Arts & Sciences Bulletin (Exception: Health Education: See an Education Advisor for details.)

<table>
<thead>
<tr>
<th>Minor</th>
<th>credits</th>
<th>Minor</th>
<th>credits</th>
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<tbody>
<tr>
<td>Astronomy</td>
<td>17</td>
<td>Health Ed.</td>
<td>15</td>
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<tr>
<td>Biology</td>
<td>15</td>
<td>History</td>
<td>15</td>
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<tr>
<td>Chemistry</td>
<td>17</td>
<td>Math</td>
<td>16</td>
</tr>
<tr>
<td>Economics</td>
<td>18</td>
<td>Physics</td>
<td>19</td>
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<tr>
<td>English</td>
<td>15</td>
<td>Political Sci.</td>
<td>18</td>
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<tr>
<td>Fine Arts</td>
<td>15</td>
<td>Psychology</td>
<td>15</td>
</tr>
<tr>
<td>Geography</td>
<td>15</td>
<td>Sociology</td>
<td>15</td>
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<tr>
<td>Geology</td>
<td>15</td>
<td>World Lang. (FRN, GER or HISP)</td>
<td>15</td>
</tr>
</tbody>
</table>

License Additions
(An student may choose to complete a License Addition but it will require the completion of more than 120 hrs.)

Computer Educator (2.5 GPA) 21 credits
- EDUC-W 200 Using Computers in Education 3
- EDUC-W 210 Survey of Computer Based Education (P: W200) (Fall only) 3
- EDUC-W 220 Technical Issues in Computer Based Education (P: W210) (Spring only) 3
- EDUC-W 310 Integrating Technology (K-12) (P: W210) (Spring only) 3
- EDUC-W 435 Tech Leadership (K-12) (P: W310) (Fall only) 3
- EDUC-W 410 Student Teaching Practicum (6 weeks) 6

English as a New Language (ENL) (2.5 GPA) 22 credits
Complete an online application at http://education.indiana.edu/license-development/licensing/enl-application.html for the license addition.
- ENG-G 205 Intro to English Language (Fall only) OR 3
- LING-L 103 Intro to the Study of Language (S&H) 3
- EDUC-X 401 Critical Reading in the Content Areas (Spring only) OR 3
- EDUC-X 470 Psycholinguistics for Teachers of Reading (Spring only) 3
- EDUC-E 341 Methods of Teaching Reading I (P: EDUC-E 340) 3
- EDUC-L 441 Bilingual Education: Intro. (Spring only) 3
- EDUC-M 442 Methods of Bilingual Teaching (Summer only) 3
- AND 1
- EDUC-M 401 Field Experience 1
- EDUC-M 470 Student Teaching Practicum (6 weeks) 6

Mathematics (2.5 GPA) 32 credits
- MATH-M 211 Calculus I (P: Two years of high school algebra, one year of high school geometry, pre-calculus math (or its equivalent), and trigonometry; or both M025 and M026) (N&M) 4
- MATH-M/S 212 Calculus II (P: M211) (N&M) OR 4
- MATH-M 213 Accelerated Calculus (P: Placement by exam) (N&M) 4

Select 3 classes from the following:
- MATH-K 310 Statistical Techniques (P: MATH-M119 or equivalent) OR 3
- MATH-M 365 Intro. To Probability & Statistics (P: MATH-M212) 3
- MATH-M 330 Exploring Mathematical Ideas (P: MATH-M211) 3
- MATH-M 380 History of Mathematics (P: MATH-M212) 3
- MATH-T 336 Topics in Euclidean Geometry P: MATH-M212) (Fall only) 3
- EDUC-P 313 Adolescents in a Learning Community (Permission to register for this course is required.) 3
- EDUC-N 310 Topics in Middle Grade Math (P/C: EDUC-E 343) (Fall only) 3
- EDUC-N 443 Teaching Elementary Math Problem Solving (P/C: EDUC-E 343) (Spring only) 3
- EDUC-M 470 Student Teaching Practicum (6 weeks) 6

Reading (2.5 GPA) 18 credits
- EDUC-E 341 Methods of Teaching Reading II (P: EDUC-E 340) 3
- EDUC-L 407 Instructional Issues in Language Learning for English Teachers (Fall & Summer only) 3
- EDUC-L 409 Critical Issues for the Reading Professional (Spring & Summer only) 3
- EDUC-X 470 Psycholinguistics for Teachers 3
- EDUC-X 425 Student Teaching Practicum (6 weeks) 6
This program sheet is effective for all students starting at IUB beginning summer 2013.

**ELEMENTARY EDUCATION: ACADEMIC MINOR**

- Choose **ONE** subject area to study in depth as an Academic Minor.
- Courses completed in the Content Area **can double count** in the Academic Minor.
- The completion of an Academic Minor will require you to complete more than 120 credit hours for your degree.
- Check the College of Arts & Sciences Bulletin for pre-requisite courses.
- Unless otherwise stated, at least 9 credit hours of the minor must be taken in residence on the Bloomington campus.
- A "C" or higher grade is required in each course. You must maintain a 2.5 GPA in the area you select.

**NOTE:** The Academic Minor is not intended to be a subject specific teaching license. It **will not** appear on your academic transcript or teaching license.

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**Astronomy (17 credits)**
- A221, A222,
- PHYS-P 301 and
- Two of AST A305, A320, A450, A451, A452, or A453.

A student must take all necessary prerequisites, including some mathematics and physics classes.

Students may substitute one 300-400 level astronomy course and or PHYS-P 301 with other 300-400 level courses in related fields (physics, mathematics, or computer science) with the permission of the School of Education Academic Standards Committee.

**Biology (Non-science Majors) (18 credits)**
- BIOL L111, L112, L113, L350, L369 and
- An approved statistics course at the 300 level, or one of L330 or L340.
- Additional biology major courses at the 300-level and above to total 18 or more credit hours. A minimum of 9 credit hours must be at the 300-400 level.

**Note:** Biology L490 and L499 credit cannot count for either option in the biology minor.

**Chemistry (17 credits)**
- Core courses: C117-C127 (or C105 and C125) and C341.
- 9 credit hours of electives chosen from A314, A318 or C317-C318, C342, C360, C361, C362, C430, C443, C460, C481, C483, C484, C485, N330.

**Note:** At least 12 credit hours must be taken in residence on the Bloomington campus.

**Economics (18 credits)**
- Mathematics: M119 or M211
- Introductory economics: E201 and E202
- Intermediate economic theory: E321
- Economics electives: At least two additional economics courses (6 credit hours) at the 300 or 400 level, excluding E496 and Y398. At least one of these elective courses (3 credit hours) must be numbered above E321, excluding E370.

**English (15 credits)**
- L202 Literary Interpretation.
- Departmentally approved courses representing two of the following periods in the history of literatures in English—beginnings through the sixteenth century; sixteenth through eighteenth centuries; the nineteenth century; 1900 to the present.
- At least 9 credit hours of course work must be completed at the 300–400 level.

**Note:** W202 and W205 are not approved for inclusion in the major or minor

**Geography (15 credits)**
- One course from G107, G109, G110, G120, and G208.
- One course in geographic methodology (to be selected from G235, G237, G250, G336, G338, G350, G436, G438, or G488).
- At least 9 credit hours in Geography courses must be completed at the 300-400 level.

**Geological Sciences (15 credits)**
- No more than one course at the 100 level.
- Either G221 and G222 or G225.
- A minimum of 9 credits at the 300 to 400 level, including at least one course at the 300 level and one course at the 400 level.

**Health Education (15 credits)**
- H160, H263, H414 and H464
- One course from F255, F341, H150, H174, H180, H220, H235, H315, H318, N220 or N231

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History (15 credits)
- Students must complete 15 credit hours of history.
- Of the 15 credit hours in history, 9 must be at the 300 or 400 level.

Mathematics (16 credits)
- M212, S212, or M213
- At least three courses at the 300 or 400 level.

Note: The courses K300, K305, and K310 cannot be selected for the minor.

Physics (19 hrs)
- One of the two 10 credit introductory course sequences, P201-P202 or P221-P222.
- A modern physics course, to be chosen from P301, P453, and P454.
- A laboratory course, to be chosen from P309, P451, and P460.
- Another 3 credit course above the level of P301.
- At least 9 credit hours of course work at the 300–400 level.

Political Science (18 credits)
- At least 9 credits must be at the 300 or 400 level.
- At least two courses in one of the following blocks of courses and at least one course from one of the other two blocks:
  - American politics, public policy, law, and administration (Y301–Y320, Y324–Y326, Y329, Y349, Y373, Y394)
  - Comparative politics or international relations (Y332–Y348, Y350–Y372, Y374–Y376, Y407)
  - Political theory and methodology (Y379, Y381–Y388, Y395, Y405, Y406)

Note: Only 3 hours of credit in X380 and Y481 may be counted toward the minor.

Psychology (15 credits)
- P155 or both P101 and P102.
- Psychology K300 or K310 or another approved College statistics course.
- Any two additional courses in psychology at the 300 or 400 level.
- In addition, students must complete mathematics M118, or M119, or a 200-level mathematics course, or the equivalent.
- At least 9 credit hours of course work for the minor must be completed at the 300–400 level.

Sociology (15 credits)
- One of the following: S100, S105, S110, S122, S201, S210, S215, S217, S220, S230.
- Three sociology courses (9 credit hours) at the 300–400 level.
- An additional sociology course at any level.

Studio Art (21 credits)
- F100.
- F101 or F102.
- Two additional courses in studio art above the 100 level.
- Three courses in studio art at the 300–400 level (which must be completed on the Bloomington campus).

World Language: French (15 credits)
- F250.
- F300 (must be taken on the Bloomington campus).
- 9 additional credit hours of 300–400 level courses, including:
  - one course from the following: F305, F306, F361, F362, F363, F375
  - one course from the following: F313, F315,F316
- Two courses at the 300–400 level must be taken on the Bloomington campus, and one of these two courses must be F300. If F250 is satisfied through a placement exam and validation course then the student must take three courses at the 300–400 level on the Bloomington campus (and one of these must be F300).

Note: No credit in the minor will be given for those courses listed in the College of Arts & Sciences Bulletin as carrying no credit toward the major.

World Language: German (15 credits)
Students must complete 15 credit hours of Germanic Studies course credit at the 300 and 400 level, including at least 12 credit hours in courses taught in German.

World Language: Spanish (15 credits)
- S250,
- S280,
- Any two of the 300-level core courses (S324, S326, S328), and
- One additional course at the 300 or 400 level.

Students who place into the S300 level are not eligible for S280 credit. As a result, they must take an additional 3 credits at the S300 or S400 level.

Note: Native speakers of Spanish are expected to complete the minor with course work at the S300 and S400 level. The following courses cannot be used to fulfill any portion of the minor: S260, S265, S284, S290, S421, S494, S499, or any course from Portuguese or Catalan. For detailed information about the options available to minors, consult the departmental office of undergraduate studies.