B.S. EDUCATION: EXCEPTIONAL NEEDS-EARLY & LATE ADOLESCENCE (MATH OR SCIENCE)

This Bachelor of Science in Education degree enables you to teach exceptional needs students, mild intervention in the Middle School/Junior High or High School setting. 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 credits each semester through the Community of Teachers Program (CoT). A 2.5 GPA overall is required for retention and graduation. A total of 120 credits is required for graduation.

I. IUB & SCHOOL OF EDUCATION
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.)

Oral Expression (Select one) 3 credits
CMCL-C 122 Interpersonal Communication (S&H) 3
COLL-P 155 Public Oral Communication 3
EDUC-G 203 Comm. for Youth Serving Professionals (S&H) 3

English Composition (EC) (Select one) 0-3 credits
GRADE OF C or higher required
CMLT-C 110 Writing the World 3
ENG-W 131 Elementary Composition OR 3
ENG-W 131EX Elementary Composition-Exempt 0
ENG-W 170 Intro to Argumentative Writing 3
(Topic: Projects in Reading & Writing)

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: English Comp & Soph. Standing) 3
College of Arts & Sciences designated Intensive Writing course 3

Mathematical Modeling (MM) (Select one) 3-4 credits
MATH-M 118 Finite Mathematics 3
MATH-D 116 Intro to Finite Mathematics I AND 2
MATH-D 117 Intro to Finite Mathematics II (Note: D116 must have a grade of C- or higher & D117 must have a passing grade to fulfill the MM requirement) 2
MATH-J 113 Intro to Calculus with Applications 3
MATH-M 119 Brief Survey of Calculus I 3
MATH-M 211 Calculus I 4
MATH-M 213 Accelerated Calculus 4

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.)
These courses must be taken before student teaching.

Admission to TEP is required for the following courses.

**Teacher Education Program**

- **EDUC-K 344**  
  *ED Soc & Emotionally Disturbed II (Spring only) (P: EDUC-K 343)*  
  3 credits
- **EDUC-K 352**  
  *ED of Children w/Learning Problems (Fall only) (P: EDUC-K 371)*  
  3 credits
- **EDUC-K 371**  
  *Assessment & Individualized Instruction in Reading & Math (Spring only) (P: EDUC-K 362)*  
  3 credits
- **EDUC-K 441**  
  *Transition Across the Life Span (Spring only) (P: EDUC-K 362)*  
  3 credits
- **EDUC-M 464**  
  *Methods of Teaching Reading*  
  3 credits

**Content Methods**

- Field Experience is incorporated in the EDUC-S 400: Field Based Seminars and Apprenticeship.
- Students may add an additional semester(s) between the completion of Content Methods and Student Teaching.

**Mathematics**

- **EDUC-M 422**  
  *Teach. Math in the Secondary School (Fall only)*  
  3 credits
- **EDUC-M 446**  
  *Meth. of Teach. Jr/Md/Sr High Science (Fall only)*  
  3 credits

**Science**

- **EDUC-K 488**  
  *Student Teaching in Special Education (EEE)*  
  10 credits
- **EDUC-M 470**  
  *Practicum in Content Field Area*  
  6 credits

- Students are eligible for a teaching license upon completion and documentation of all 16 portfolio expectations.

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**World Languages (WL)/World Cultures (WC)**

(Complete ONE of the following options.)

6 credits

**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)**  
0 credits

Fulfilled by completion of Expectations

0 credits

**Diversity in the U. S. (D)**

Fulfilled by completion of Expectations

0 credits

**Enriching Educational Experiences (EEE)**  
10 credits

- **EDUC-K 488**  
  *Student Teaching: Secondary*  
  10 credits

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**III. PROFESSIONAL EDUCATION**

57+ credits/2.5 GPA

(C or higher grade is required in each course listed below.)

**Required Non-Authorized Course**  
3 credits

This course must be taken before admission to CoT

- **EDUC-K 205**  
  *Intro to Exceptional Children (S&H)*  
  (Recommended Fall semester sophomore year)
  3 credits

**Required CoT Authorized Courses**  
20+ credits

These courses must be taken after admission to the CoT Program but before admission to TEP.

- **EDUC-K 343**  
  *Ed Soc & Emotionally Disturbed I (Spring only)*  
  3 credits
- **EDUC-K 361**  
  *Assistive Technology for Elementary (Fall only) (P: EDUC-K 343)*  
  3 credits
- **EDUC-K 362**  
  *Team Approach to the Ed. of Students with Disabilities (Fall only) (P: EDUC-K 343)*  
  3 credits
- **EDUC-K 405**  
  *Building Inclusive Md./Sec. Schools (Fall only) (P: EDUC-K 343)*  
  1 + 1 credits
- **EDUC-S 400**  
  *Field Based Seminar in Teacher Ed (Must be taken at least 1 semester for 4 credits before admission to TEP.) (Students must register for 4 or 5 credits of EDUC-S400 each semester. In addition, students must complete at least 1 semester of 5 credits before student teaching.)*  
  9+ credits

5 of 16 portfolio expectations completed and documented before enrolling in Teacher Education Program course(s).

**Teacher Education Program Authorized Courses**  
34 credits

Admission to TEP is required for the following courses.

These courses must be taken before student teaching.
Complete one of the following subject areas.

### II. MATH CONTENT
26-27 credits/2.5 GPA
(C or higher grade is required in each course.)
(Check with the department regarding when courses will be offered.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Elementary Mathematics with Finite</td>
<td>9-10</td>
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<tr>
<td>EDUC-N 101</td>
<td>Teach &amp; Learn Elem Math I OR</td>
<td>3</td>
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<tr>
<td>MATH-T 101</td>
<td>Math for Elementary Teachers I</td>
<td></td>
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<tr>
<td>MATH-M/S/V 118</td>
<td>Finite Math (MM) OR</td>
<td>3</td>
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<tr>
<td>MATH-D 116 &amp; 117</td>
<td>Intro to Finite Math I &amp; II (MM)</td>
<td>2+2</td>
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<tr>
<td>EDUC-N 103</td>
<td>Teach &amp; Learn Elem Math II (P: C or higher in N101 or T101) OR</td>
<td>3</td>
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<tr>
<td>MATH-T 103</td>
<td>Math for Elementary Teachers III (P: C or higher in N101 or T101)</td>
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**Analysis**
8 credits

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<tr>
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<tbody>
<tr>
<td>MATH-M 211</td>
<td>Calculus I (MM, N&amp;M)</td>
<td>4</td>
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<tr>
<td>MATH-M/S 212</td>
<td>Calculus II (P: M211) (N&amp;M)</td>
<td>4</td>
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**Electives**
9 credits

Complete 9 additional credits of math electives. To be chosen from 300-400 level math courses. (The following courses are recommended: MATH-K300 or K310 or M365; M330; M380; or T336)

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### II. SCIENCE CONTENT
25 credits/2.5 GPA
(C or higher grade is required in each course.)
(Check with the department regarding when courses will be offered.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Biology</td>
<td>6</td>
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<tr>
<td>BIOL-E/L 111</td>
<td>Intro to Biol: Evolution &amp; Diversity (N&amp;M)</td>
<td>3</td>
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<tr>
<td>BIOL-E/L 112</td>
<td>Intro to Biol: Biological Mechanisms (P: HS or college chemistry) (N&amp;M)</td>
<td>3</td>
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**Chemistry**
5 credits

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<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
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<tr>
<td>CHEM-C 117</td>
<td>Principles of Chemistry &amp; Biochemistry I (P: Chemistry &amp; Math Placement Exams, &amp; consent of department) (N&amp;M) AND</td>
<td>3</td>
</tr>
<tr>
<td>CHEM-C 127</td>
<td>Principles of Chemistry &amp; Biochemistry I Lab OR</td>
<td>2</td>
</tr>
<tr>
<td>CHEM-S 117</td>
<td>Principles of Chemistry &amp; Biochemistry I – Honors (N&amp;M)</td>
<td>5</td>
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**Physical Science**
6 credits

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<tr>
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<tbody>
<tr>
<td>GEOG-G 107</td>
<td>Physical Systems of the Environment (N&amp;M)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL-G/S 103</td>
<td>Earth Science: Materials &amp; Processes (N&amp;M) OR</td>
<td>3</td>
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<tr>
<td>GEOL-G 104</td>
<td>Evolution of the Earth (N&amp;M) OR</td>
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<tr>
<td>GEOL-G 105</td>
<td>Earth: Our Habitable Planet (N&amp;M)</td>
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**History & Philosophy of Science**
3 credits

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<tbody>
<tr>
<td>HPSC-X 100</td>
<td>Human Perspective on Science OR</td>
<td>3</td>
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<tr>
<td>HPSC-X 102</td>
<td>Revolution I in Science: Plato to NATO (S&amp;H, WC) OR</td>
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<tr>
<td>HPSC-X 200</td>
<td>Scientific Reasoning (N&amp;M) OR</td>
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<tr>
<td>HPSC-X 222</td>
<td>Big Science in the 20th Century (S&amp;H)</td>
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**Physics**
5 credits

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<tr>
<td>PHYS-P 201</td>
<td>General Physics I (P: M 26 or HS equiv.) (N&amp;M) OR</td>
<td>5</td>
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<tr>
<td>PHYS-P 221</td>
<td>Physics I (C: MATH-M 211)</td>
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### IV. ELECTIVES (To total 120 credits)