This program sheet is effective for all students starting at IUB beginning summer 2021.

**B.S. EDUCATION: SCIENCE (EARTH/SPACE SCIENCE)**

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 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 2021

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**PREREQUISITES FOR ADMISSION TO THE TEP**

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

1. 2.5 GPA overall.
2. 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.
3. Completion of or enrollment in prerequisites: Grade of C or higher is required in each EDUC course.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDUC-G 203 Communication for Youth Serving Professionals (S&amp;H)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-M 300 Teaching in a Pluralistic Society (P: English Comp.) (D)</td>
<td>3</td>
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<tr>
<td>EDUC-P 312 Learning Theory into Practice (P: Soph. status)</td>
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<td>EDUC-P 313 Adolescents in a Learning Community (P: Soph. status)</td>
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</tr>
<tr>
<td>EDUC-W 200 Using Computers in Education (IF)</td>
<td>3</td>
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</tbody>
</table>

4. Apply to TEP by October 1 to enroll in Spring term Block I and EDUC-K 306.
5. Access TEP Application at: https://education.indiana.edu/

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

[https://gened.indiana.edu/approved-courses/index.html](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

- CMLT-C 110 Writing the World 3
- ENG-W 131 Reading, Writing & Inquiry / 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.

- __________________________

**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.

- __________________________

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

*(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.
  - __________________________
- **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)** 3 credits

- EDUC-W 200 Using Computers in Education 3

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

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

**Enriching Educational Experiences (EEE)** 12 credits

- EDUC-M 480 Student Teaching: Secondary (12 weeks) 12
II. PROFESSIONAL EDUCATION
51 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.

21 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-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 and 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: Soph. status) (IW) 3

Admission to the Teacher Education Program (TEP) is required in order to enroll in the following courses:

30 credits

EDUC-K 306 Teaching Students with Special Needs: Secondary Classrooms 3

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 303 Field Experience I 2
EDUC-M 469 Content Area Literacy 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) 13 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) 12

III. EARTH/SPACE SCIENCE CONTENT
51-52 credits/2.5 GPA
A grade of C minus (C-) or higher is required in each course. Check with the department regarding when courses will be offered.

Required Science 20 credits

BIOL-L 111 Foundations of Biology: Diversity, Evolution & Ecology (N&M) OR 4
BIOL-L 112 Foundations of Biology: Biological Mechanisms (P: HS or college chemistry) (N&M) 4
CHEM-C 117 Principles of Chem & Biochem 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 Chem & Biochem I Lab OR 2
CHEM-S 117 Principles of Chem & Biochem I-Honors 5
GEOG-G 304 Physical Climatology 3
HPSC-X 102 Science Revolutions: Plato to NATO (S&H) (WC) 3
PHYS-P 201 General Physics I (P: MATH-M 026) (N&M) OR 5
PHYS-P 221 Physics I (P:C MATH-M/S 211 or consent of instructor) 5

Earth/Space Science Major 31-32 credits

Complete 6 credits from the following:

AST-A 100 The Solar System (N&M) 3
AST-A 102 Gravity, the Great Attractor (N&M) 3
AST-A 103 The Search for Life in the Universe (N&M) 3
AST-A 105 Stars and Galaxies (N&M) 3
AST-A 115 Birth and Death of the Universe (N&M) 3

Complete 3 credits from the following:

COLL-C 105 Topic: Earth Processes and Planets 3
COLL-C 105 Topic: Records of Global Climate Change 3
COLL-C 105 Topic: Extreme Weather and its Consequences 3
EAS-E 103 Earth Science: Materials and Processes (N&M) 3
EAS-E 104 Evolution of the Earth (N&M) 3
EAS-E 105 Earth: Our Habitable Planet (N&M) 3
EAS-E 111 Journey to the Center of the Earth (P: One high school or college course in chemistry) (N&M) 3
EAS-E 114 Dinosaurs and Their Relatives (N&M) 3
EAS-E 116 Our Planet and Its Future (N&M) 3
EAS-E 118 Sustainability in Water Resources (N&M) 3
EAS-E 121 Origin and Evolution of Mars and Rocky Planetary Bodies (N&M) 3
EAS-E 122 Earth’s Dynamic Atmosphere (N&M) 3
EAS-E 131 Oceans and Our Global Environment (N&M) 3
EAS-E 138 Geology of State and National Parks Revealed 3
EAS-E 141 Earthquakes and Volcanoes (N&M) 3
EAS-E 144 Extreme Weather and Its Impacts (N&M) 3
EAS-E 171 Environmental Geology in the Twenty-first Century (N&M) 3
EAS-E 188 Volcanoes of the Sierra Nevada (P: Consent of instructor) 3
EAS-E 227 Earth Climate and History (Spring) 3

Complete the following:

EAS-E 225 Earth Materials (Fall) 4
EAS-E 226 Earth Processes (Fall) 3

Complete 6-7 credits from the following:

EAS-E 308 Paleontology and Geology of Indiana 3
EAS-E 333 Sedimentation and Tectonics (P: One of EAS-E 225 or GEOL-G 225; and one of EAS-E 226 or GEOL-G 226) (Spring) 4
EAS-E 351 Elements of Hydrology (P: CHEM-C 103, CHEM-C 105, CHEM-S 117, and PHYS-H 221, PHYS-P 201, or PHYS-P 221) 3

Complete 3 credits from the following:

EAS-A 476 Climate Change Science (P: At least two undergraduate physical science courses or consent of instructor) (Spring) (IW) 3
EAS-E 412 Introduction to Vertebrate Paleontology (P: One course from the General Education Natural and Mathematical Sciences course list) 3
EAS-E 415 Principles of Geomorphology (P: EAS-E 226 or GEOL-G 226; and EAS-E 227 or GEOL-G 227) 3-4
EAS-E 418 Igneous and Metamorphic Petrology (P: EAS-E 222 or GEOL-G 222) 3
EAS-E 451 Principles of Hydrogeology (P: CHEM-C 117 or CHEM-S 117; and MATH-M 211 or MATH-S 211) 2-4
EAS-E 454 Fundamentals of Plate Tectonics (P: EAS-E 333 or GEOL-G 333) 3

Complete at least 6 additional credits of Earth and Atmospheric Sciences at the 300-400 level.

IV. ELECTIVES (To total 120 credits)