



INDIANA UNIVERSITY
KOKOMO

DIVISION OF EDUCATION

BACHELOR of SCIENCE in SECONDARY EDUCATION

Early Adolescence and Adolescence Young Adult

Licensure: 5-12

Science Teaching Major

Last Name _____

First Name _____

IU ID # _____

IUK Email _____

GENERAL EDUCATION CORE LEVEL REQUIREMENTS

(44 Credit Hours)

(Must have a minimum total of 44 credit hours and no course can be used twice to satisfy multiple General Education Core Level Requirements. All courses must have a grade of at least C)

| COMMUNICATION SKILLS & INFORMATION LITERACY (Minimum of 9 credit hours required) | Course Taken | Credit Hours | Grade |
|---|---------------------|---------------------|--------------|
| ENG W131 Elementary Composition (3) | | | |
| ENG W132 Elementary Composition II (3) | | | |
| SPCH S121 Public Speaking (3) | | | |
| Total | | | |

| QUANTITATIVE LITERACY (Minimum of 6 credit hours required) | Course Taken | Credit Hours | Grade |
|--|---------------------|---------------------|--------------|
| *EDUC M440 Teaching Problems and Issues Seminar (3) | | | |
| <i>One of the following:</i> MATH M118 Finite Mathematics (3) MATH M119 Survey of Calculus (3) MATH M215 Calculus I (5) | | | |
| Total | | | |

| CRITICAL THINKING (Minimum of 3 credit hours required) | Course Taken | Credit Hours | Grade |
|--|---------------------|---------------------|--------------|
| <i>One of the following:</i> *EDUC P250 Educational Psychology (3) *EDUC P255 Educational Psychology for Middle and Secondary Teachers (3) | | | |
| Total | | | |

| CULTURAL DIVERSITY (Minimum of 3 credit hours required) | Course Taken | Credit Hours | Grade |
|--|---------------------|---------------------|--------------|
| *EDUC M300 Teaching in a Pluralistic Society (3) | | | |
| Total | | | |

| ETHICS and CIVIC ENGAGEMENT (Minimum of 3 credit hours required) | Course Taken | Credit Hours | Grade |
|---|---------------------|---------------------|--------------|
| *EDUC H340 Education and American Culture (3) | | | |
| | Total | | |

| SOCIAL AND BEHAVIORAL SCIENCES (Minimum of 6 credit hours required. Select at least one course from each of the following groups) | Course Taken | Credit Hours | Grade |
|---|---------------------|---------------------|--------------|
| <i>Political Science, History, and Economics</i> HIST H105 American History I (3) HIST H106 American History II (3) HIST H113 History of Western Civ. I (3) HIST H114 History of Western Civ. II (3) POLS Y103 Intro. to American Politics (3) POLS Y217 Intro. to Comparative Policies (3) POLS Y219 Introduction to World Politics (3) ECON E175 Survey of Econ. for Teachers (3) ECON E200 Fundamentals of Economics (3) ECON E201 Intro. to Micro Economics (3) ECON E202 Intro. to Macro Economics (3) COAS E104 when content is appropriate (3) | | | |
| <i>Sociology and Psychology</i> SOC S100 Introduction to Sociology (3) SOC S101 Social Problems and Politics (3) PSY P103 General Psychology (3) PSY P216 Lifespan Development (3) COAS E104 when content is appropriate (3) | | | |
| | Total | | |

| HUMANITIES AND ARTS (Minimum of 6 credit hours required. Select at least one course from each of the following groups) | Course Taken | Credit Hours | Grade |
|---|---------------------|---------------------|--------------|
| <i>Literature, Philosophy, and Religion</i> ENG LXXX (3) ENG EXXX (3) PHIL PXXX (3) except P150 Elementary Logic (3) COAS E103 when content is appropriate (3) | | | |
| <i>Fine, Performing, and Communication Arts</i> FINA A101 Ancient & Medieval Art (3) FINA A102 Renaissance Thru Modern Art (3) FINA A108 Art of the Western World (3) FINA F100 Fundamental Studio Drawing (3) FINA S200 Drawing 1 (3) MUS M174 Appreciation to Music (3) MUS Z201 History of Rock and Roll Music (3) MUS U320 Women in Music History (3) MUS X001 IU Kokomo Singers (2) MUS X040 Instrumental Ensemble Band (2) MUS X040 Instrumental Ensemble Handbells (1) THTR T120 Acting I (3) HUMA U101 Introduction to Humanities: What happens in Hamlet? (3) HUMA U102 Introduction to Humanities: The Live Performance (3) | | | |

| | | | |
|--|--|--|--|
| HUMA U103 Introduction to Creative Arts (3) HUMA U305 Art and Music in the 20 th Century (3) ENG W203 Creative Writing (3) COAS E103 when content is appropriate (3) | | | |
| Total | | | |

| PHYSICAL AND LIFE SCIENCES (Minimum of 8 credit hours required. Select from at least two of the following groups, one laboratory experience must be included) | Course Taken | Credit Hours | Grade |
|--|---------------------|---------------------|--------------|
| <i>Biology</i> BIOL L100 Man and the Biological World (5) BIOL L105 Introduction to Biology (5) BIOL L270 Humans & Microorganisms (3) BIOL L370 Plants, Animals, and Civilization (3) ANAT A215 Basic Human Anatomy (5) PHSL P215 Basic Human Physiology (5) MICR J200 Microbiology and Immunology (3) PLSC B203 Survey of the Plant Kingdom (5) PLSC B364 Summer Flowering Plants (5) COAS E105 when content is appropriate (3) | | | |
| <i>Physics</i> PHYS P100 Physics in the Modern World (5) PHYS P201 General Physics I (5) COAS E105 when content is appropriate (3) | | | |
| <i>Chemistry</i> CHEM C100 The World of Chemistry (3) and CHEM C120 Lab (2) CHEM C101 Elementary Chemistry I (3) and CHEM C121 Lab (2) CHEM C105 Principles of Chemistry (3) and CHEM C125 Lab (2) CHEM C390 Environmental Science (3) COAS E105 when content is appropriate (3) | | | |
| <i>Geology</i> GEOG G107 Physical Systems of the Environment (3) GEOG G315 Environmental Conservation (3) GEOL G100 General Geology (5) GEOL G133 Geology of the United States (3) GEOL G400 Energy: Sources and Needs (3) GEOL T312 Geology of Indiana (3) COAS E105 when content is appropriate (3) | | | |
| Total | | | |

** Education courses have been approved to satisfy the General Education Core Level Requirements: M440 for Quantitative Literacy; M300 for Cultural Diversity; H340 for Ethics and Civic Engagement; P250 or P255 for Critical Thinking; Q200 for Information Literacy (Q200 credit hours not included in the General Education Credit Count)*

**TEACHING MAJOR REQUIREMENTS
(44 Credit Hours)**

Teaching major requirements are fulfilled by completing a total of 44 credit hours in Science. (Minimum GPA of 2.5 in teaching major and no grade less than C in the teaching major is required.) The IU Kokomo Teacher Education Program requires you to either choose one licensure area and complete at least 41 credit hours or two licensure areas that sum to 44 credit hours (Exception: Physical Science has a 44 credit hour minimum requirement). Courses completed need to include one course in each of the General Science areas and meet all principles for your chosen licensure areas. (Courses taken to meet the General Science requirements may also be used to meet licensure area requirements, but cannot be counted twice towards the total 44 credits.)

Licensure Areas:

Chemistry
Physics

Physical Science
Earth/Space Science

Life Science

| General Science Area | Recommended IU Kokomo Courses | Course |
|--|---|--------|
| Physical Science Physics or Chemistry | See Recommended and Possible IU Kokomo courses for each licensure area. | |
| Life Science | | |
| Earth/Space Science | | |

Chemistry: Courses completed need to meet all the following principles. Once those principles are met, you may select any other of the listed possible courses in the licensure area to attain the minimum hour requirement for the teaching major. At least two lab courses need to be included

| Principles | Recommended IU Kokomo Courses | Course Taken | Hours | Grade |
|---------------------------|-------------------------------|--------------|-------|-------|
| Matter and Energy | C105/C125 | | | |
| Energy and Change | C106/C126 | | | |
| Organic Chemicals | C341/C343; C342/C344 | | | |
| Analytical Chemistry | C210/C211 | | | |
| Additional Courses | | | | |
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| | | Total | | |

*Other possible IU Kokomo courses: Biological Chemistry C483; Inorganic Chemistry C430; Physical Chemistry C361, C362, C363; Principles of Chemical Instrumentation C410, C411

Physics: Courses completed need to meet all the following principles. Once those principles are met, you may select any other of the listed possible courses in the licensure area to attain the minimum hour requirement for the teaching major. At least two lab courses need to be included

| Principles | Recommended IU Kokomo Courses | Course Taken | Hours | Grade |
|------------------------------|-------------------------------|--------------|-------|-------|
| Mechanics | P201 | | | |
| Electricity and Magnetism | P202 | | | |
| Atomic and Subatomic Physics | P301 | | | |
| Environmental Physics | P310 | | | |
| Additional Courses | | | | |
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| | | Total | | |

Life Science: Courses completed need to meet all the following principles. Once those principles are met, you may select any other of the listed possible courses in the licensure area to attain the minimum hour requirement for the teaching major. At least two lab courses need to be included

| Principles | Recommended IU Kokomo Courses | Course Taken | Hours | Grade |
|------------------------------|-------------------------------|--------------|-------|-------|
| Molecules and Cells | L105; L367; M310 | | | |
| Developmental and Organismal | Z315; P416 | | | |
| Genetics and Evolution | L364 | | | |
| Ecology | L473 | | | |
| Additional Courses | | | | |
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| | | Total | | |

*Other possible IU Kokomo courses: Basic Human Anatomy A215; Humans and Microorganisms L270; Principles of Immunology L321/K339; Plants, Animals, and Civilization L370; Survey of the Plant Kingdom B203; Summer Flowering Plants B364; Microbiology and Immunology J200/J201; Microbiology M310/M315;

Physical Science: Courses completed need to meet all the following principles. Once those principles are met, you may select any other of the listed possible courses in the licensure area to attain the minimum hour requirement for the teaching major. At least two lab courses need to be included

| Principles | Recommended IU Kokomo Courses | Course Taken | Hours | Grade |
|------------------------------|-------------------------------|--------------|-------|-------|
| Matter and Energy | C105/C125 | | | |
| Energy and Change | C106/C125 | | | |
| Organic Chemicals | C341/C343; C342/C344 | | | |
| Analytical Chemistry | C210/C211 | | | |
| Motion and Forces | P201 | | | |
| Electricity and Magnetism | P202 | | | |
| Atomic and Subatomic Physics | P301 | | | |
| Environmental Physics | P310 | | | |
| Additional Courses | | | | |
| | | | | |
| | | | | |
| | | Total | | |

*Other possible IU Kokomo courses see Chemistry or Physics Requirements

Earth/Space Science: Courses completed need to meet all the following principles. Once those principles are met, you may select any other of the listed possible courses in the licensure area to attain the minimum hour requirement for the teaching major. At least two lab courses need to be included

| Principles | Recommended IU Kokomo Courses | Course Taken | Hours | Grade | | | | | | | | | | | | | | | | | | |
|---|-------------------------------|--------------|-------|-------|--------------------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--------------|--|--|
| Universe | A100 | | | | | | | | | | | | | | | | | | | | | |
| Earth and Natural Resources | G100; C390 | | | | | | | | | | | | | | | | | | | | | |
| Environmental Systems and Hazards | G107; G315; C390 | | | | | | | | | | | | | | | | | | | | | |
| Matter and Energy | C105/C125; C106/C126 | | | | | | | | | | | | | | | | | | | | | |
| Populations | L473 | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Additional Courses</th> <th>Hours</th> <th>Grade</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr> <td>Total</td> <td> </td> <td> </td> </tr> </tbody> </table> | | | | | Additional Courses | Hours | Grade | | | | | | | | | | | | | Total | | |
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| Total | | | | | | | | | | | | | | | | | | | | | | |

*Other possible IU Kokomo courses: Environmental Physics P310; Biological Chemistry C483; Plants, Animals, and Civilization L370; Survey of the Plant Kingdom P203; Summer Flowering Plants B364

PROFESSIONAL EDUCATION REQUIREMENTS

[36 credit hours (excl. Gen Ed Credit Count); 48 credit hours (incl. Gen Ed Credit Count)]

(All courses must have minimum grade of C+)

| Benchmark 1 and 2: Pre-professional | Course Taken | Credit Hours | Grade |
|---|--------------|--------------|-------|
| EDUC F205/M101 Study of Education & Practice of Teaching (3) | | | |
| *EDUC P255 Educational Psychology for Middle and Secondary Teachers (3) | | | |
| EDUC K205 Introduction to Exceptional Children (3) | | | |
| EDUC W200 Computers in Education (3) | | | |
| EDUC Q200 Introduction to Scientific Inquiry (3) | | | |
| | Total | | |

**REQUIREMENTS for ADMISSION to TEACHER EDUCATION PROGRAM
(on transcript EDUC-M299)**

Submit application for admission to the Teacher Education Program and permission to take courses in Benchmarks 3 – 5.

Admission to TEP Requirements:

| Passage of PRAXIS I (PPST) (on transcript EDUC-M199) | Minimum Score | Score | Date |
|---|---------------|-------|------|
| Reading | 176 | | |
| Writing | 172 | | |
| Mathematics | 175 | | |

Minimum Overall GPA of 2.5

Minimum GPA in Teaching Major courses of 2.5 as well as no grade less than a C

Completion of at least 55 credit hours of General Education and/or Teaching Major credit hours

Completion of Communication Skills and Quantitative Literacy with a grade of C or better

Completion of Pre-professional courses with a grade of C+ or better

Faculty Approval for Continuation

| Benchmark 3 – 5 | | | |
|---|---------------------|---------------------|--------------|
| Benchmark 3 (FALL semester) | Course Taken | Credit Hours | Grade |
| EDUC M312 General Methods Jr/High Middle (3) | | | |
| *EDUC M300 Teaching in a Pluralistic Society (3) | | | |
| Benchmark 4 (SPRING semester) | Course Taken | Credit Hours | Grade |
| EDUC M464 Methods of Teaching Reading (3) | | | |
| EDUC S487 Principles of Senior High/Junior High/Middle School Education (3) | | | |
| Benchmark 5 (FALL semester) | Course Taken | Credit Hours | Grade |
| *EDUC H340 Education and American Culture (3) | | | |
| EDUC M446 Methods of Teaching SH/JH/MD Science (3) | | | |
| | Total | | |

Admission to Benchmark 6 Requirements

| Passage of PRAXIS II Teaching Major Areas | Score | Date |
|--|--------------|-------------|
| | | |
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| Benchmark 6 (SPRING semester) | Course Taken | Credit Hours | Grade |
|---|---------------------|---------------------|--------------|
| EDUC M480 Student Teaching Secondary (12) | | | |
| *EDUC M440 Teaching Problems and Issues Seminar (3) | | | |
| | Total | | |

**Credit hours for P255, M300, H340, and M440 are applied to the General Education Credit Count*

NOTE: At the completion of each Benchmark, faculty review and approval are required as conditions for program continuation.