



INDIANA UNIVERSITY
KOKOMO

DIVISION OF EDUCATION

BACHELOR of SCIENCE in SECONDARY EDUCATION

The Professional Educator Model Program Guide
Early Adolescence and Adolescence Young Adult

Licensure: 5-12

Science Teaching Major

Last Name _____

First Name _____

IU ID # _____

IUK Email _____

GENERAL EDUCATION REQUIREMENTS

(Must have a minimum total of 38 credit hours and
all Fundamental Skills courses must have a grade of at least C)

FUNDAMENTAL SKILLS (Minimum of 15 credit hours required)	Course Taken	Credit Hours	Grade
ENG W131 Elementary Composition (3)			
ENG W132 Elementary Composition II (3)			
SPCH S121 Public Speaking (3)			
DPIS D250 Multimedia (3)			
<i>One of the following:</i> MATH M125 Pre-Calculus Mathematics (3) MATH M118 Finite Mathematics (3) MATH M119 Survey of Calculus (3) MATH M215 Calculus I (3)			
Total			

NATURAL 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>Life Science</i> BIOL L100 Man and the Biological World (5) BIOL L105 Introduction to Biology (5) BIOL L270 Humans & Microorganisms (3) ANAT A215 Basic Human Anatomy (5) PHSL P215 Basic Human Physiology (5) PLSC B203 Survey of the Plant Kingdom (5) PLSC B364 Summer Flowering Plants (5)			
<i>Physical Science</i> PHYS P100 Physics in the Modern World (5) PHYS P201 General Physics I (5) 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)			

<i>Earth/Space Science</i>			
AST A100 The Solar System (3)			
GEOL G107 Physical Systems of the Environment (3)			
COAS E105 Topics in Natural and Math Sciences (3)			
Total			

SOCIAL AND BEHAVIORAL SCIENCES (Minimum of 9 credit hours required. Select from at least two of the following groups)	Course Taken	Credit Hours	Grade
<i>History</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)			
ANTH A103 Human Origins & Prehistory (3)			
ANTH A104 Culture and Society (3)			
<i>Sociology and Psychology</i>			
SOC S100 Introduction to Sociology (3)			
SOC S101 Social Problems and Politics (3)			
PSY P103 General Psychology (3)			
<i>Political Science and Economics</i>			
SPEA J101 The Am. Criminal Justice Sys. (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 E201 Intro. to Micro Economics (3)			
ECON E202 Intro. to Macro Economics (3)			
COAS E104 Topics in Social and Behavioral Sciences (3)			
Total			

HUMANITIES (Minimum of 6 credit hours required. Select from at least two of the following groups)	Course Taken	Credit Hours	Grade
<i>Literature</i>			
ENG L101 Western World Masterpieces I (3)			
ENG L102 Western World Masterpieces II (3)			
ENG W203 Creative Writing (3)			
FOLK F101 Introduction to Folklore (3)			
AFRO A150 Sur. of Culture of Black Am. (3)			
CLAS C205 Classical Mythology (3)			
CMLT C190 An Introduction to Film (3)			
<i>Fine Arts</i>			
FINA A101 Ancient & Medieval Art (3)			
FINA A102 Renaissance Thru Modern Art (3)			
FINA A108 Art of the Western World (3)			
MUS M174 Appreciation to Music (3)			
THTR C130 Introduction to Theater (3)			
THTR T120 Acting I (3)			
SPCH C205 Intro. to Oral Interpretation (3)			
HUMA U103 Introduction to Creative Arts (3)			

<i>Philosophy</i> PHIL P100 Introduction to Philosophy (3) PHIL P140 Elementary Ethics (3) PHIL P145 Introduction to Social and Political Philosophy (3) PHIL P150 Elementary Logic (3) PHIL P242 Applied Ethics (3) REL R152 Intro. to Religions of the West (3) REL R233 Introduction to the Hebrew Bible – Old Testament (3) REL R243 Intro. to the New Testament (3)			
<i>Communications</i> JOUR C200 Intro. to Mass Com. (3) SPCH S122 Interpersonal Communications (3) SPCH S205 Intro. to Speech Com. (3) SPCH S223 Business and Prof. Speaking (3) SPCH S229 Discuss. and Group Methods (3) SPCH S233 Intro. to Public Relations (3) JOUR J200 Writing for Mass Media (3)			
COAS E103 Topics in Arts and Humanities (3)			
	Total		

TEACHING MAJOR REQUIREMENTS

Teaching major requirements are fulfilled by completing a total of 51 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 36 credit hours or two licensure areas and complete at least 24 credit hours in each (Exception: Physical Science has a 36 hour minimum requirement). The Indiana Division of Professional Standards requires you to complete 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 51 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				
		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				
		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				
		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	G107; G315; C390			
Environmental Systems and Hazards	G107; C390			
Matter and Energy	C105/C125; C106/C126			
Populations	L473			
		Additional Courses	Hours	Grade
		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
(All courses must have minimum grade of C+)

Core I: Pre-professional (12 credit hours)	Course Taken	Credit Hours	Grade
EDUC M101 Introduction to Education			
EDUC P253 Educational Psychology for Secondary Teachers			
EDUC K205 Introduction to Exceptional Children			
DPIS D250 Multimedia			
	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 Cores II, III, and IV.

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 W131, W132, S121, M118/M125 with a grade of C or better

Completion of Core I with a grade of C+ or better

Faculty Approval for Continuation

Cores II, III, and IV (18 credit hours)			
Core II (FALL semester)	Course Taken	Credit Hours	Grade
	EDUC M312 General Methods Jr/High Middle		
	EDUC S487 Principles of Senior High/Junior High/Middle School Education		
Core III (SPRING semester)	Course Taken	Credit Hours	Grade
	EDUC M446 Methods of Teaching SH/JH/MD Science		
	SOC S100 Introduction to Sociology or approved multicultural course		
Core IV (FALL semester)	Course Taken	Credit Hours	Grade
	EDUC M464 Methods of Teaching Reading		
	EDUC H340 Education and American Culture		
	Total		

Admission to Core V Requirements

Passage of PRAXIS II Teaching Major Areas	Score	Date

Core V (SPRING semester) (15 credit hours)	Course Taken	Credit Hours	Grade
	EDUC M480 Student Teaching Secondary		
	EDUC M440 Teaching Problems and Issues Seminar		
	Total		

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