SCIENCE EDUCATION EARTH SPACE SCIENCE CONCENTRATION

Grade Levels 5-12 REPA 3

NOT VALID WITHOUT OFFICIAL TRANSCRIPT EVALUATION

Purdue University Course Catalog 2022-2023

CONTENT CREDIT HOURS							
CONTL	<u> </u>		CKEDIT HOOKS				
Required Science Education Core Courses							
EAPS	10500	The Planets	3				
EAPS	11700	Introduction to Atmospheric Science	3				
EAPS	20000	Water World: Processes and Challenges in Global Hydrology	3				
EAPS	24300	Earth Materials	4				
EAPS	35300	Earth Surface Processes	3				
EAPS	35400	Plate Tectonics	3				
EAPS	39000	Geologic Field Methods	3				
EAPS	10900	The Dynamic Earth	3 3 3 3				
EAPS	11200	Earth through Time	3				
EAPS	11800	Introduction to Earth Sciences	3				
EAPS	11100	Physical Geology					
CHM	11600	General Chemistry	4				
CHM	12600	Introduction to Chemistry II	5				
CHM	12901	General Chemistry with a Biological Focus	5				
CHM	13600	General Chemistry Honors	4				
	the follow		3				
STAT	30100	Elementary Statistical Methods					
STAT	35000	Introduction To Statistics					
	4 6 11		4.5				
	the follow		4-5				
CHM	11500	General Chemistry (4)					
CHM	12500	Introduction to Chemistry I (5)					
One of the following:							
			4				
CS	17700	Programming with Multimedia Objects (4)					
CS	18000	Problem Solving and Object-Oriented Programming (4)					
One of	tha fallau	ina	4-5				
MA	the follow 16100	Plane Analytic Geometry and Calculus I (5)	4-5				
MA	16500	• • • • • • • • • • • • • • • • • • • •					
IVIA	10300	Analytic Geometry and Calculus I (4)					
One of	the follow	ina:	4-5				
MA	16200	Plane Analytic Geometry and Calculus II (5)	4-3				
MA	16600	Analytic Geometry and Calculus II (4)					
IVI <i>I</i> -\	10000	Allaylic Scollicity and Calculus II (4)					
One of the following:							
PHYS 17200 Modern Mechanics							
PHYS	22000	General Physics					
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			4				
			•				

One of the following: **PHYS** 27200 Electric and Magnetic Interactions (4) OR **PHYS** 24100 Electricity and Optics (3) AND **PHYS** Electricity and Optics Laboratory (1) 25200 **PHYS General Physics** 22100 **Total Content 79-82** PROFESSIONAL EDUCATION **Educational Program Course Requirements** Exploring Teaching as a Career *required for TEP admission **EDCI** 20500 2 **EDCI** 27000 Introduction to Education Technology and Computing 1 **EDCI** Multiculturalism and Education *required for TEP admission 2 28500 **EDPS** 23500 Learning and Motivation 2-3 The Inclusive Classroom 2 **EDPS** 26501 Educational Policies and Laws *required for TEP admission **EDST** 20010 1 **EDPS** 32700 Classroom Assessment 1-3 **EDPS** 43010 Secondary Creating and Managing Learning Environments 1 **EDCI** 20001 Special Populations Seminar: Focus on Students with Disabilities 1 and Differentiation Approaches **EDCI** 20002 Special Populations Seminar: English Language Learners and 1 Students with Gifts and Talents **EDCI** 30900 Reading in Middle and Secondary Schools: Methods and 3 **Problems** 1 **EDCI** 35000 Community Issues & Applications for Educators **EDCI** 37001 Teaching and Learning English as a New Language 2-3 Children with Gifts, Creativity, and Talents **EDPS** 24000 1 **EDPS** 24800 Differentiating Curriculum and Instruction 1 Positive Behavioral Supports 2 **EDPS** 36201 Supervised Teaching (16 weeks) 12 EDCI 49800 Methods Courses 3

The Teaching of Earth and Physical Science in the Secondary

Teaching Science in the Middle and Junior High School (2)

(STEM) Education Methods-Secondary (3)

Integrated Science, Technology, Engineering and Mathematics

2-3

2022-2023	
Purdue University Teacher Education Program	

EDCI

EDCI

EDCI

42400

42800

55800

One of the following:

Schools

Pick **ONE** course from the selective below in a pathway of your choice (required). ABA courses are included if allowed by the plan of study. Students can take two additional courses in the same pathway to complete requirements for an add-on teaching license in ELL or HA or take one additional course in the SPED pathway for a certificate in SPED.

English Language Learners Licensure Pathway					
EDCI	51900	Teaching English Language Learners (3)			
EDCI	52600	Language Study for Educators (3)			
EDCI	55900	Academic Language and Content Area Learning (3)			
High Ability Licensure Pathway					
EDPS	54200	Curriculum and Program Development in Gifted Education (3)			
EDPS	54500	Social and Affective Development of Gifted Students (3)			
Special Education Non-Licensure Pathway					
EDPS	21100	Special Education Law, Policy, and Ethical Guidelines (3)			
Applied Behavior Analysis Non-Licensure Pathway					
EDPS	34100	Introduction to Philosophical Underpinnings and Concepts of			
		Applied Behavior Analysis (3)			
EDPS	34200	Applied Behavior Analysis – Assessment and Intervention (3)			
EDPS	44100	Introduction to Ethics and Practice of Applied Behavior Analysis			
		(3)			
EDPS	44200	Advanced Intervention in Applied Behavior Analysis (3)			

Total Professional Education 44-49

Licensure Information

All Purdue University Program and Indiana Department of Education requirements must be met for recommendation for Indiana licensure.

After all requirements are met, Purdue graduates will be considered eligible to apply to the <u>Indiana</u> Department of Education for licensure under REPA 3 in:

Earth/Space Science (5-12) Addition in Blended and Online Teaching (5-12)

Optional: Addition in High Ability (P-12) or ELL (P-12) if chosen pathway requirements are completed

Visit the <u>Indiana Department of Education website</u> for more information about what courses can be taught once licensed in this area.

Please reference the 2022-2023 Science: Earth Space Education Guidelines and Requirements and the 2022-2023 Science: Earth Space Education Checklist for more information.