

Approved 6/27/19 JT			
5-12 Basic Science	COMPLETE SHADED FIELDS IN THIS COLUMN	Add links to online course syllabi, or submit course syllabi in separate folder	Notes
INSTITUTION NAME	William Penn University		
UNDERGRADUATE OR GRADUATE?	Undergraduate		
NEW OR REVISED?	same - moving from old system to this new system		
STATE CORE REQUIREMENTS			
Methods of teaching 5-12 science	EDUC 393 Secondary Science Methods, 3 credits EDUC 394 25 hour field experience, 0 credits		
Student teaching in 5-12 science	EDUC 401 Student Teaching, 14 credits		
STATE CONTENT REQUIREMENTS	INSTITUTIONAL REQUIREMENTS (course title, credits)		
Completion of a thirty semester hour teaching major which must minimally include 24 hours of science coursework:			
Six semester hours of credit in earth and space science which includes the following essential concepts and skills: Understand and apply knowledge of energy in the earth system Understand and apply knowledge of geochemical cycles	EASC 100 Intro to Earth Science, 3 credits EASC 104 Physical Geology, 4 credits		7
Six semester hours of credit in life science/biological science which includes the following essential concepts and skills: Understand and apply knowledge of the cell Understand and apply knowledge of the molecular basis of heredity Understand and apply knowledge of the interdependence of organisms Understand and apply knowledge of matter, energy, and organization in living systems Understand and apply knowledge of the behavior of organisms	BIOL 101, General Biology I, 4 credits BIOL 102 General Biology II, 4 credits		8
Six semester hours of credit in physics/physical science which includes the following essential concepts and skills: Understand and apply knowledge of the structure of atoms Understand and apply knowledge of the structure and properties of matter Understand and apply knowledge of motions and forces Understands and applies knowledge of interactions of energy and matter	PHYS 201 General Physics I, 4 credits PHYS 202 General Physics II, 4 credits		8
Six semester hours of credit in chemistry which includes the following essential concepts and skills: Understand and apply knowledge of chemical reactions Design and conduct scientific investigations	CHEM 101 General Chemistry I, 4 credits CHEM 102 General Chemistry II, 4 credits		8
			31
Other (if applicable):			
Endorsement Credit Hour Total:	31 credits		