

**SCIENCE EDUCATION
PHYSICS CONCENTRATION**

**Grade Levels 5-12
REPA 3**

NOT VALID WITHOUT OFFICIAL TRANSCRIPT EVALUATION

<u>CONTENT</u>	<u>Semester Hours</u>
<i>One of the following:</i>	4
PHYS 17200 Modern Mechanics (4)	
PHYS 17200 Modern Mechanics (Honors) (4)	
<i>One of the following:</i>	4
PHYS 27200 Electric and Magnetic Interactions (4)	
PHYS 27200 Electric and Magnetic Interactions (Honors) (4)	
<i>Each of the following:</i>	
PHYS 30600 Mathematical Methods of Physics I	3
PHYS 30700 Mathematical Methods of Physics II	3
PHYS 31000 Intermediate Mechanics	4
PHYS 33000 Intermediate Electricity and Magnetism	3
PHYS 34000 Modern Physics Laboratory	1
PHYS 34400 Modern Physics	4
PHYS 36000 Quantum Mechanics	3
PHYS 42200 Waves and Oscillations	3
PHYS 45000 Intermediate Laboratory	2
<i>One of the following:</i>	4-10
CHM 13600 General Chemistry Honors(4)	
OR	
CHM 11500 General Chemistry (4)	
CHM 11600 General Chemistry (4)	
OR	
CHM 12300 General Chemistry for Engineers I (4)	
CHM 12400 General Chemistry for Engineers II (4)	
OR	
CHM 12500 Introduction to Chemistry I (5)	
CHM 12600 Introduction to Chemistry II (5)	

Total Content 38-44

PROFESSIONAL EDUCATION

Foundational Courses

EDCI 20500 Exploring Teaching as a Career	3
EDCI 27000 Introduction to Education Technology and Computing	3
EDCI 28500 Multiculturalism and Education	3
EDPS 23500 Learning and Motivation	3
EDPS 26500 The Inclusive Classroom	3
EDST 20010 Educational Policies and Laws	1
EDPS 32700 Classroom Assessment	1
EDPS 43010 Secondary Creating and Managing Learning Environments	1

(Physics continued)

			Semester Hours
<u>Methods Courses</u>			
EDCI	30900	Reading in Middle and Secondary Schools: Methods and Problems	3
EDCI	42400	The Teaching of Earth and Physical Science in the Secondary Schools	3
EDCI	49800	Supervised Teaching (10 weeks)	10
One of the following:			2-3
EDCI	42800	Teaching Science in the Middle and Junior High School (2)	
EDCI	55800	Integrated Science, Technology, Engineering and Mathematics (STEM) Education Methods-Secondary (3)	

Total Professional Education 36-37