

**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>	4-5
CHM 11500 General Chemistry (4)	
CHM 12300 General Chemistry for Engineers I (4)	
CHM 12500 Introduction to Chemistry I (5)	
<i>One of the following:</i>	4-5
CHM 11600 General Chemistry (4)	
CHM 12400 General Chemistry for Engineers II (4)	
CHM 12600 Introduction to Chemistry II (5)	
CHM 13600 General Chemistry Honors(4) (CHM 13600 takes the place of CHM 11500 and 11600, or CHM 12300 and 12400, or CHM 12500 and 12600)	
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**

Methods Courses

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 (16 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