## SCIENCE EDUCATION
### PHYSICS CONCENTRATION

**Grade Levels 5-12**  
**REPA 3**

<table>
<thead>
<tr>
<th>CONTENT</th>
<th>Semester Hours</th>
</tr>
</thead>
</table>

### One of the following:
- PHYS 17200 Modern Mechanics (4)
- PHYS 17200 Modern Mechanics (Honors) (4)

### One of the following:
- PHYS 27200 Electric and Magnetic Interactions (4)
- PHYS 27200 Electric and Magnetic Interactions (Honors) (4)

### Each of the following:
- 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

### One of the following:
- CHM 11500 General Chemistry (4) 4-5
- CHM 12300 General Chemistry for Engineers I (4)
- CHM 12500 Introduction to Chemistry I (5)

### One of the following:
- CHM 11600 General Chemistry (4) 4-5
- 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

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2020 – 2021  
Purdue University Teacher Education Program
(Physics continued)

<table>
<thead>
<tr>
<th>Methods Courses</th>
<th>Semester Hours</th>
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</thead>
<tbody>
<tr>
<td>EDCI 30900 Reading in Middle and Secondary Schools: Methods and Problems</td>
<td>3</td>
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<tr>
<td>EDCI 42400 The Teaching of Earth and Physical Science in the Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 49800 Supervised Teaching (10 weeks)</td>
<td>10</td>
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One of the following: 2-3

<table>
<thead>
<tr>
<th>Methods Courses</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>EDCI 42800 Teaching Science in the Middle and Junior High School (2)</td>
<td></td>
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<tr>
<td>EDCI 55800 Integrated Science, Technology, Engineering and Mathematics (STEM) Education Methods-Secondary (3)</td>
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Total Professional Education 36-37