

**SCIENCE EDUCATION  
EARTH SPACE SCIENCE CONCENTRATION**

**Grade Levels 5-12  
REPA 3**

|   |
|---|
| <b>NOT VALID<br/>WITHOUT<br/>OFFICIAL<br/>TRANSCRIPT<br/>EVALUATION</b> |
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| <b><u>CONTENT</u></b>                                    | <b><u>Semester<br/>Hours</u></b> |
|--|----------------------------------|
| EAPS 24300 Earth Materials I                             | 4                                |
| EAPS 35300 Earth Surface Processes                       | 3                                |
| EAPS 35400 Plate Tectonics                               | 3                                |
| EAPS 39000 Geologic Field Methods                        | 3                                |
| <b><i>One of the following:</i></b>                      | <b>6</b>                         |
| EAPS 49000 Field Geology in Rocky Mountains (6)          |                                  |
| EAPS 3XXXX Geology Field Experience (6)                  |                                  |
| <b><i>One of the following:</i></b>                      | <b>3</b>                         |
| EAPS 11800 Introduction to Earth Sciences (3)            |                                  |
| EAPS 11100 Physical Geology (3)                          |                                  |
| <b><i>One of the following:</i></b>                      | <b>3</b>                         |
| EAPS 10900 The Dynamic Earth (3)                         |                                  |
| EAPS 11200 Earth through Time (3)                        |                                  |
| EAPS 31900 Exploring Earth through Time (3)              |                                  |
| <b><i>Electives (Select from the following):</i></b>     | <b>8-11</b>                      |
| ASTR 26300 Descriptive Astronomy: The Solar System (3)   |                                  |
| ASTR 26400 Descriptive Astronomy: Stars and Galaxies (3) |                                  |
| EAPS 10400 Oceanography (3)                              |                                  |
| EAPS 10500 The Planets (3)                               |                                  |
| EAPS 11600 Earthquakes and Volcanoes (3)                 |                                  |
| EAPS 11700 Introduction to Atmospheric Science (3)       |                                  |
| EAPS 12000 Introduction to Geography (3)                 |                                  |
| EAPS 13800 Thunderstorms and Tornadoes (3)               |                                  |
| EAPS 22100 Survey of Atmospheric Science (3)             |                                  |
| EAPS 22500 Science of the Atmosphere (3)                 |                                  |
| EAPS 24400 Earth Materials II (4)                        |                                  |
| EAPS 35200 Structural Geology (3)                        |                                  |
| EAPS 47400 Sedimentation And Stratigraphy (4)            |                                  |
| <b><i>One of the following:</i></b>                      | <b>4-5</b>                       |
| CHM 11500 General Chemistry (4)                          |                                  |
| CHM 12500 Introduction to Chemistry I (5)                |                                  |
| <b><i>One of the following:</i></b>                      | <b>4-5</b>                       |
| 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)                   |                                  |
| <b><i>One of the following:</i></b>                      | <b>4</b>                         |
| PHYS 17200 Modern Mechanics (4)                          |                                  |
| PHYS 22000 General Physics (4)                           |                                  |

(Earth/Space Science continued)

**Semester  
Hours**  
4

**One of the following:**

|      |       |  |  |
|------|-------|--|--|
| PHYS | 22100 | General Physics (4) <b>OR</b>          |  |
| PHYS | 27200 | Electric and Magnetic Interactions (4) |  |
|      |       | <b>OR</b>                              |  |
| PHYS | 24100 | Electricity and Optics (3) <b>AND</b>  |  |
| PHYS | 25200 | Electricity and Optics Laboratory (1)  |  |

**Total Content 49-54**

**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 |

**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 (10 weeks)                                      | 10 |

One of the following:

|      |       |   |     |
|------|-------|---|-----|
| EDCI | 42800 | Teaching Science in the Middle and Junior High School (2)   | 2-3 |
| EDCI | 55800 | Integrated Science, Technology, Engineering and Mathematics (STEM)<br>Education Methods-Secondary (3) |     |

**Total Professional Education 36-37**