**Geology, Earth and Space Science Emphasis, Comprehensive Teaching (160-015)**

**Degree Planning Tool 2018-19**

### Liberal Education Requirements (36 credits)

#### Knowledge Goals

**K1 Natural Sciences**
- 1 CHEM 115 or equivalent
- 2 GEOL 106 or 110 or 115 or 118
  - PHYS 226 or 211 or 231

**K2 Social Sciences**
- 1 PSYC 260
- 2 ___________

**K1 or K2 Lab Experience**
- any of the above CHEM & GEOL listed in K1

**K3 Humanities**
- 1 ___________
- 2 ___________

**K4 Fine Arts**
- 1 ___________

#### Skill Goals

**S1 Written/Oral Communication**
- 1 WRIT 114, 116, 118, 120
- 2 CJ 201, 202, or 203

**S2 Mathematics**
- 1 Math 114

**S3 Creativity**
- 1 ES 497

### Teacher Education Requirements

**Literature Course from K3 or K4**

**Western History or Culture from K2, K3, or K4**

**Non-Western History or Culture from K2, K3, or K4**

**Fine Arts**

### Pre-Program Requirements

- ES 212
- ES 385
- ES 490

### Geology Core Requirements

- GEOL 106, 110, 115, or 118 (choose one)
- GEOL 312
- GEOL 320
- GEOL 468
- GEOL 470
- CHEM 115 or equivalent

### Earth and Space Science Emphasis Requirements

- GEOL 102
- GEOL 301 or 308
- GEOL 418
- PHYS 211 or 231
- PHYS 226
- MATH 114
- GEOG 178 or BIOL 180
- GEOG 340 and 361

### Electives to total at least 60 credits selected from following

- PHYS 212, 232, 229, or 315
- GEOG 280, 304, 338, 350, 363, or 364
- Or any Geology course numbered 300 or above

### Admission to Education Program Required

- ES 312
- ES 317
- ES 318
- ES 328
- ES 359
- SPED 300
- ES 445 & ES 470 - Student Teaching
  - ES 497

### Broadfield Science Licensure (optional)

- ES 367 and 14 credits from BIOL, CHEM,
- 14 approved credits from BIOL, CHEM, or PHYS
- 8 approved credits in two additional areas (BIOL, CHEM, PHYS)

### Service Learning (ES 385)

### Total LE Credits Remaining (from degree audit)

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**Note:** This document is a planning tool ONLY; please consult the *Catalog* and your degree audit for specific requirements. You are responsible for knowing and completing your graduation requirements.