Members in attendance: Elena Pravosudova, David Shintani, Kambiz Raffiee, Kate Berry, Tom Harrison, Chuck Coronella, Fred Holman, Kara Cleveland for Marsha Read, Mary Hylton, David Ryfe, Kathy Boardman, Brian Frost for Gina Tempel.
Ex-Officio members in attendance: Joe Cline, Katy Schleef, Pat Ragains, Lance Bowen, Fini Dobyns, Maureen Cronin, Brady Janes, Janet Stake.

Approval of minutes: April 15, 2013 - Approved

Presentation of Core changes – Kate Berry – Summary of comments and notes will be compiled for submission to the Provost. Support for the Silver Alternative was approved.

<table>
<thead>
<tr>
<th>PROPOSED CHANGES IN DEGREES, MAJORS, AND COURSES</th>
<th>Grad Council Approval / Core Board</th>
<th>CCN</th>
</tr>
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<tbody>
<tr>
<td>COB ECON</td>
<td>799</td>
<td>Create new course</td>
</tr>
<tr>
<td>Abbrev: Dissertation</td>
<td>Offerings: Every Fall and Spring</td>
<td>Transfer agreements: N/A</td>
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<tr>
<td></td>
<td>OK</td>
<td>NA</td>
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<tr>
<td>COB MGRS</td>
<td>MKT 441/641 109976</td>
<td>Reactivate a course</td>
</tr>
<tr>
<td>DHS MED</td>
<td>PHAR 770</td>
<td>Create new course</td>
</tr>
<tr>
<td>Provides a background in reproductive physiology and explore recent pharmacological developments in reproductive biology.</td>
<td>Prereq: PHAR 710; BCH 705 or CMB 710.</td>
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</tbody>
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### Abbrev: Reproductive Pharmacology
Offerings: Every Fall – Odd Years
Transfer agreements: N/A
Implementation: FL13

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<thead>
<tr>
<th>ED</th>
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<th>EDES 413 104410 Change course components</th>
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<td><strong>Approved</strong></td>
<td></td>
<td><strong>OLD: Field-Based Teaching and Assessment in Elementary Schools (3+0) 3 units S/U only</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>NEW: Field-Based Teaching and Assessment in Elementary Schools (1+6) 3 units S/U only</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Abbrev: Field Based Teach Assess-Elem</td>
</tr>
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<td></td>
<td></td>
<td>Offerings: Every Fall and Spring</td>
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<tr>
<td></td>
<td></td>
<td>Transfer agreements: No changes</td>
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<td>Implementation: SP14</td>
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<tr>
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<th>EDRL 473 104425 Prereq change</th>
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<td><strong>OLD PRE/COREQ</strong></td>
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<tr>
<td></td>
<td></td>
<td>NONE</td>
</tr>
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<td></td>
<td></td>
<td>Transfer agreements: No changes anticipated</td>
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<td></td>
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<td>Implementation: SP14</td>
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<table>
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<tr>
<th>ED</th>
<th>ED</th>
<th>IETP-3460 Change in Program credits; requesting exception to 120 credit rule</th>
</tr>
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<tbody>
<tr>
<td><strong>Approved</strong></td>
<td></td>
<td><strong>I. University Core Curriculum Requirements (36-45 units)</strong></td>
</tr>
<tr>
<td></td>
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<td>NOTE: Refer to the Core Curriculum chapter of this catalog for information regarding the “Core English and Math Completion Policy”.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>A. English (3-8 units)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refer to the “English” section of the Core Curriculum chapter in this catalog.</td>
</tr>
<tr>
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<td></td>
<td>NOTE: Students who place in ENG 102 are not required to complete ENG 101.</td>
</tr>
<tr>
<td></td>
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<td><strong>B. Mathematics (3-5 units)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 126R - Precalculus I (3 units) OR</td>
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<td></td>
<td></td>
<td>MATH 127R - Precalculus II (3 units) OR</td>
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<td></td>
<td></td>
<td>MATH 128 - Precalculus and Trigonometry (5 units) OR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 131 - Quantitative Reasoning (3 units) * OR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 181 - Calculus I (4 units) OR</td>
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<tr>
<td></td>
<td></td>
<td>STAT 152 - Introduction to Statistics (3 units) * OR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>APST 270 - Introduction to Statistical Methods (4 units) *</td>
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<td></td>
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<td>* Must also achieve a satisfactory score on a placement exam in order to receive Core Curriculum Math credit.</td>
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<tr>
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<td><strong>C. Natural Sciences (6-8 units)</strong></td>
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<tr>
<td></td>
<td></td>
<td>Select one course from each group:</td>
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<tr>
<td></td>
<td></td>
<td>Earth Science:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GEOL 100 - Earthquakes, Volc, Nat (3 units)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GEOL 101 - General Geology (4 units)</td>
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<td></td>
<td></td>
<td>GEOG 103 - Physical Geography (3 to 4 units)</td>
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<td>Physical Science</td>
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<tr>
<td>Course</td>
<td>Notes</td>
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<td>--------</td>
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<tr>
<td>CHEM 100 - Molecules and Life in the Modern World (3 units) OR CHEM 121A - General Chemistry I (3 units) AND CHEM 121L - General Chemistry Laboratory I (1 unit) OR PHYS 100 - Introduction to Physics (3 units) OR PHYS 151R - Gen Physics I &amp; Lab (4 units)</td>
<td></td>
<td></td>
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</tbody>
</table>

### D. Social Science (3 units)
GEOG 106 - Introduction to Cultural Geography (3 units)

### E. Fine Arts (3 units)
Refer to the “Fine Arts” section in the Core Curriculum chapter in this catalog.

### F. Core Humanities (9 units)
Refer to the “Core Humanities” section of the Core Curriculum chapter in this catalog.

### G. Capstone Courses (6 units)
EDUC 413 - Education for a Changing World (3 units)
General Capstone to support K-8 subject areas (3 units)

### H. Diversity (3 units)
EDU 203R - Introduction to Special Education (3 units)

### II. Additional College Requirements (30 units)

#### A. English (6 units)
6 additional units in approved courses in children’s literature and writing/language/grammar: EDU 207 (required) and ENG 281, ENG 282, ENG 297 or ENG 321.

#### B. Natural Sciences (3 units)
In addition to the courses completed for Core Natural Science, a course in Life Science is required; BIOL 100, BIOL 110 (recommended), or ENV 100 (or above).

#### C. Mathematics (6 units)
MATH 122 - Number Concepts for Elementary School Teachers (3 units)
MATH 123 - Statistical and Geometrical Concepts for Elementary School Teachers (3 units)

#### D. College of Education Core (15 units)
EDU 201 - Introduction to Teaching (PK-8) (3 units)
EDU 203R - Introduction to Special Education (0 units) (Units counted in Core Curriculum Diversity section above.)
EDU 214 - Preparing Teachers to Use Technology (3 units)
EDU 210 - Nevada School Law (3 units)
EDRL 472 - Methods for Elementary English Language Learners (3 units)
EPY 330A - Principles of Educational Psychology/Elementary (3 units) (SPE Specialization) OR HDFS 201 - Lifespan Human Development (3 units) (ECE Specialization) (ESL can choose either course)

### III. Major Requirements (42 units)
Must be admitted to Teacher Education Program.
A. Required Courses (24 units)
- EDES 300 - Language Arts and Literature PK-3 (3 units)
- EDES 313 - Developing as a Teacher: Practicum and Seminar (3 units)
- EDES 413 - Field-Based Teaching and Assessment in Elementary Schools (3 units)
- EDEL 433 - Methods for Teaching PK-8 Mathematics (3 units)
- EDEL 443 - Methods for Teaching PK-8 Science (3 units)
- EDEL 453 - Methods for Teaching PK-8 Social Studies (3 units)
- EDRL 443 - Literacy Instruction II (3 units)
- EDRL 461 - Diagnostic Assessment and Instruction Literacy (3 units)

B. Specialization Requirements (18 units)
* Course prerequisite is admission to major
- Early Childhood Specialization
  - HDFS 250 - Early Childhood Education (3 units)
  - HDFS 428 - Preschool Curriculum I (3 units) *
  - HDFS 429 - Advanced Preschool Curriculum II (3 units) *
  - HDFS 431B - Advanced Human Development: Childhood (3 units) *
  - HDFS 435R - Child Socialization: A Systems Perspective (3 units)
  - ECE 455 - Assessment of Children Birth to Age 8 (3 units) *
- Special Education Specialization
  - EDU 208 - Mild To Moderate Disab (3 units)
  - EDSP 432 - Serving Individuals with Disabilities and Their Families (3 units) *
  - EDSP 443 - Special Education Curriculum: General Methods (3 units) *
  - EDSP 444 - Special Education Curricula: Approaches for Adolescents (3 units) *
  - EDSP 452 - Assessment for Special Education Teachers (3 units) *
  - EDSP 453 - Behavior Management Techniques for Students with Disabilities (3 units) *
- English as a Second Language Specialization
  - EDRL 471 - Language Acquisition, Development and Learning (3 units) *
  - EDRL 475 - Assessment and Evaluation English Language Learners (3 units) *
  - EDRL 490 - Examining Curriculum for Spanish Speakers in U.S. Schools (3 units) *
  - Additional units from a list of approved courses. (9 units)

IV. Minor Requirements (0 units)

V. Electives (3-12 0 units)
NOTE: Students who are undecided about choosing teaching as a career may take EDU 110 as an exploratory elective course.

VI. Supervised Internship (12 units)

VII. Total Units (120 120-124 units)

VIII. Recommended Schedule

A. First Year (30-31 27-30 units)
  - ENG 102 - Composition II (3 units)
**MATH 126R - Precalculus I (3 units) or higher**
**GEOG 106 - Introduction to Cultural Geography (3 units)**
Core Curriculum Fine Arts (3 units)
Core Curriculum Natural Sciences (Earth Sciences):
  - GEOL 100 - Earthquakes, Volc, Nat (3 units) OR
  - GEOG 103 - Physical Geography (3 to 4 units)
**EDU 214 - Preparing Teachers to Use Technology (3 units)**
**CH 201 - Ancient and Medieval Cultures (3 units)**
**EDU 203R - Introduction to Special Education (3 units) (Diversity)**
**EDU 210 - Nevada School Law (3 units)**
**HDFS 250 - Early Childhood Education (3 units) (ECE Specialization)**
**HDFS 201 - Lifespan Human Development (3 units) (ECE Specialization)**
**EDU 208 - Mild To Moderate Disab (3 units) (SPE Specialization)**
**General Electives (3-6 units for SPE and ELL Specializations respectively)**

**B. Second Year (30 units)**

Core Curriculum Natural Science (Physical Science) (3 units) - choose from:
  - PHYS 100 - Introduction to Physics OR
  - CHEM 100 - Molecules and Life in the Modern World

Additional Natural Science (Life Science) (3 units) - choose from:
  - BIOL 100 - Biology: Principles and Applications OR
  - BIOL 110 - Biology for Elementary/Middle Level Education Majors OR
  - ENV 100 - Humans and the Environment

Additional English course (3 units) - choose from:
  - ENG 281 - Introduction to Language OR
  - ENG 282 - Introduction to Language and Literary Expression OR
  - ENG 297 - Reading and Interpreting OR
  - ENG 321 - Expository Writing

**CH 202 - The Modern World (3 units)**
**CH 203 - American Experiences and Constitutional Change (3 units)**
**EDU 201 - Introduction to Teaching (PK-8) (3 units)**
**EDU 203R - Introduction to Special Education (3 units) (Diversity)**
**EDU 207 - Exploration of Children's Literature (3 units)**
**MATH 122 - Number Concepts for Elementary School Teachers (3 units)**
**MATH 123 - Statistical and Geometrical Concepts for Elementary School Teachers (3 units)**
**EDU 208 - Mild To Moderate Disab (3 units) (SPE Specialization)**
**HDFS 250 - Early Childhood Education (3 units) (ECE Specialization)**
**Family Engagement Elective (3 units) (ELL Specialization)**

**C. Third Year (30-33 units)**

Admission to Licensure Program
**EDES 300 - Language Arts and Literature PK-3 (3 units)**
**EDES 313 - Developing as a Teacher: Practicum and Seminar (3 units)**
**EDEL 433 - Methods for Teaching PK-8 Mathematics (3 units)**
**EDEL 443 - Methods for Teaching PK-8 Science (3 units)**
**EDRL 443 - Literacy Instruction II (3 units)**
**Core Curriculum General Capstone (recommend HIST, PSC or GEOG) (3 units)**
- HDFS 428 - Preschool Curriculum I (3 units) *(ECE Specialization)*
- HDFS 429 - Advanced Preschool Curriculum II (3 units) *(ECE Specialization)*
- HDFS 435R - Child Socialization: A Systems Perspective (3 units) *(ECE Specialization)*
- ECE 455 - Assessment of Children Birth to Age 8 (3 units) *(ECE Specialization)*
- EDRL 471 - Language Acquisition, Development and Learning (3 units) *(ELL Specialization)*

**EDRL 475 - Assessment and Evaluation English Language Learners (3 units) (ELL Specialization)**
- EDRL 490 -Examining Curriculum for Spanish Speakers in U.S. Schools (3 units) *(ELL Specialization)*
- EDSP 432 - Serving Individuals with Disabilities and Their Families (3 units) *(SPE Specialization)*
- EDSP 452 - Assessment for Special Education Teachers (3 units) *(SPE Specialization)*
- EDSP 443 - Special Education Curriculum: General Methods (3 units) *(SPE Specialization)*
- EPY 330A - Principles of Educational Psychology/Elementary (3 units) *(ELL and SPE Specializations)*
- **EDUC 413 - Education for a Changing World (3 units) (Capstone) (SPE Specialization)**

**General Elective (ELL Specialization) (3 units)**

**D. Fourth Year (36-34 units)**

**Core Curriculum General Capstone (3 units)**
- EDRL 461 - Diagnostic Assessment and Instruction Literacy (3 units) *
- EDEL 433 - Methods for Teaching PK-8 Mathematics (3 units)
- EDEL 443 - Methods for Teaching PK-8 Science (3 units)
- EDEL 453 - Methods for Teaching PK-8 Social Studies (3 units)
- EDES 413 - Field-Based Teaching and Assessment in Elementary Schools (3 units)
- EDRL 472 - Methods for Elementary English Language Learners (3 units)
- EDUC 413 - Education for a Changing World (3 units) (ECE and ELL Specializations)

**EDRL 475 - Assessment and Evaluation English Language Learners (3 units) (ELL Specialization)**
- EDSP 444 - Special Education Curricula: Approaches for Adolescents (3 units) *(SPE Specialization)*
- EDSP 453 - Behavior Management Techniques for Students with Disabilities (3 units) *(SPE Specialization)*

**Student Teaching Internship (12-16 units) (12 units ECE and ELL Specializations, 16 units SPE Specialization)**

**General Electives (6-9 units depending on specialization) (3 units ELL Specialization)**

**Note(s):**
- * Course prerequisite: Admission to licensure program

Transfer Agreements: 6258, 6357, 6456, 6554
Implementation: FL13

**ED** | **ED** | **BA-** | **Approved** |
--- | --- | --- | --- |

May 6, 2013
University Courses & Curricula Committee Minutes
Page 6 of 48
I. University Core Curriculum Requirements (36-46 units)

NOTE: Refer to the Core Curriculum chapter of this catalog for information regarding the “Core English and Math Completion Policy”.

A. English (3-8 units)
Refer to the “English” section of the Core Curriculum chapter in this catalog.
NOTE: Students who place in ENG 102 are not required to complete ENG 101.

B. Mathematics (3-6 units)
Refer to the “Mathematics” section of the Core Curriculum chapter in this catalog.

C. Natural Sciences (6-8 units)
Refer to the “Natural Sciences” section of the Core Curriculum chapter in this catalog.

D. Social Sciences (3 units)
Refer to the “Social Sciences” section of the Core Curriculum chapter in this catalog.

E. Fine Arts (3 units)
Refer to the “Fine Arts” section of the Core Curriculum chapter in this catalog.

F. Core Humanities (9 units)
Refer to the “Core Humanities” section of the Core Curriculum chapter in this catalog.

G. Capstone Courses (6 units)
EDUC 413 - Education for a Changing World (3 units)
For the second Capstone, refer to the “Capstone” section of the Core Curriculum chapter in this catalog.

H. Diversity (3 units)
EDSP 411 - Students with Disabilities in General Education Settings (3 units)

II. Additional College Requirements (0-14 units)

A. Foreign Language (0-14 units)
The foreign language requirement may be fulfilled through any of the following options: Complete a fourth semester college course in a foreign language (may be via correspondence) or American Sign Language. Show transcript evidence of successful completion of a fourth-year high school course in foreign language. Participate in a Studies Abroad program pre-approved by the college to meet the foreign language requirement. Demonstrate proficiency through placement examination or other means through the Department of Foreign Languages and Literatures. Complete a 200-level course in speaking/reading in a foreign language plus a foreign culture class. Show evidence of being bilingual through native speaker status in a language other than English.

III. Education Major Requirements (30 units)
EDU 202 - Introduction to Teaching (Secondary) (3 units)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EDU 210</td>
<td>Nevada School Law</td>
<td>3</td>
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<td>EDU 214</td>
<td>Preparing Teachers to Use Technology</td>
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<tr>
<td>EPY 330B</td>
<td>Principles of Educational Psychology/Secondary</td>
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<td>EDRL 451</td>
<td>Reading and Writing in the Secondary School</td>
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<tr>
<td>EDRL 473</td>
<td>Methods for Adolescent and Adult English Learners</td>
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<tr>
<td>EDUC 413</td>
<td>Education for a Changing World</td>
<td>*</td>
</tr>
<tr>
<td>EDSP 411</td>
<td>Students with Disabilities in General Education Settings</td>
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<td>EDSC 321</td>
<td>Secondary Education Pedagogy I</td>
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<tr>
<td>EDSC 321P</td>
<td>Secondary Practicum I: The Middle School Practica</td>
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<tr>
<td>EDSC 404</td>
<td>Secondary Pedagogy II</td>
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<tr>
<td>EDSC 404P</td>
<td>Secondary Practicum II: The High School Practica</td>
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<td>Major Methods course (3 units) - see list below:</td>
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<td>Choose one:</td>
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<td></td>
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<tr>
<td>EDSC 473</td>
<td>Teaching Secondary Social Studies</td>
<td>3</td>
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<tr>
<td>EDSC 443</td>
<td>Teaching Secondary foreign/Second Language</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 463</td>
<td>Teaching Secondary Science</td>
<td>3</td>
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<tr>
<td>EDSC 453</td>
<td>Teaching Secondary Mathematics</td>
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<tr>
<td>EDCT 465A</td>
<td>Teaching in Career &amp; Technical Education</td>
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<tr>
<td>EDCT 465B</td>
<td>Teaching in Career &amp; Technical Education</td>
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<td>EDCT 465C</td>
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<td>EDCT 465D</td>
<td>Teaching in Career &amp; Technical Education</td>
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<tr>
<td>EDCT 465E</td>
<td>Teaching in Career &amp; Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 433</td>
<td>Teaching Secondary English</td>
<td>3</td>
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</tbody>
</table>

* Requires admission to teacher education major as a prerequisite.
** Prerequisite for EDSC 404 and major methods course.

**IV. Teaching Major Requirements (30-61 units)**
See advisor for list of requirements.

**V. Minor Requirements (0 units)**

**VI. Electives (0-24 units)**

**VII. Supervised Internship (12 units)**

**VIII. Total Units (120-132 units)**
Total credits may exceed 120-132 depending upon teaching major and minor selected.

**IX. Recommended Schedule – Secondary B.A.**

**A. First Year (29-38 units)**
ENG 102 - Composition II (3 units)
Core Curriculum Mathematics (3-6 units)
Core Curriculum Fine Arts (3 units)
Core Curriculum Social Sciences (3 units)
EDU 214 - Preparing Teachers to Use Technology (3 units)
EDU 210 - Nevada School Law (3 units)
Foreign Language 111 & 112 (8 units)
Courses in teaching major and/or electives (3-9 units) **

B. Second Year (30-33 units)
CH 201 - Ancient and Medieval Cultures (3 units)
CH 202 - The Modern World (3 units)
CH 203 - American Experiences and Constitutional Change (3 units)
EDU 202 - Introduction to Teaching (Secondary) (3 units)
Foreign language 211 & 212 (6 units)
Core Curriculum Natural Science Group A (3 units)
Core Curriculum Natural Science Group A or B (3 units)
Courses in teaching major or electives (6-9 units) **

C. Third Year (35 units)
Core Curriculum General Capstone (3 units)
Courses in teaching major or electives (18 units) **
EPY 330B - Principles of Educational Psychology/Secondary (3 units)
EDSC 321 - Secondary Education Pedagogy I (3 units)
EDSC 321P - Secondary Practicum I: The Middle School Practica (2 units)
EDRL 451 - Reading and Writing in the Secondary School (3 units)
EDRL 473 - Methods for Adolescent and Adult English Learners (3 units)
Admission to Licensure Program

D. Fourth Year (13-31 units)
Remaining teaching major and/or elective courses (0-18 units) **
EDSP 411 - Students with Disabilities in General Education Settings (3 units) *
EDUC 413 - Education for a Changing World (3 units)
EDSC 404 - Secondary Pedagogy II (3 units) *
EDSC 404P - Secondary Practicum II: The High School Practica (1 unit) *
Teaching methods course corresponding to teaching major (3 units)

E. Fifth Year (12 units – following the completion of bachelor’s degree)
Students who want to be certified to teach must complete a full-time, one semester internship, and the PRAXIS II exams(s). NOTE: Foreign language majors and minors must have demonstrated oral and written proficiency in their language for admission to the internship. Contact the Department of Foreign Languages and Literatures for details.
EDSC 483 - Secondary Supervised Teaching Internship (1 to 12 units S/U Only)

Note(s):
* Course prerequisite: admission to licensure program
** The number or credits required in a particular teaching major determines the number of elective credits required to fulfill the total credit requirements of 120-132.
Transfer agreements: 6255, 6354, 64553, 6551
Implementation: FL13

<table>
<thead>
<tr>
<th>ED</th>
<th>ED</th>
<th>BS- Secondary Ed 2917 Change program credits; requesting exception to 120 credit rule</th>
</tr>
</thead>
</table>

**Approved**

I. University Core Curriculum Requirements (36-46 units)

Note: Refer to the Core Curriculum chapter of this catalog for information regarding the “Core English and Math Completion Policy”.

A. English (3-8 units)

Refer to the “English” section of the Core Curriculum chapter in this catalog.

NOTE: Students who place in ENG 102 are not required to complete ENG 101.

B. Mathematics (3-6 units)

Refer to the “Mathematics” section of the Core Curriculum chapter in this catalog.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 127R - Precalculus II    (3 units) * OR</td>
<td></td>
</tr>
<tr>
<td>MATH 128 - Precalculus and Trigonometry (5 units) OR</td>
<td></td>
</tr>
<tr>
<td>STAT 152 - Introduction to Statistics (3 units) * OR</td>
<td></td>
</tr>
<tr>
<td>MATH 131 - Quantitative Reasoning (3 units) * OR</td>
<td></td>
</tr>
<tr>
<td>MATH 176 - Introductory Calculus for Business and Social Sciences (3 units) OR</td>
<td></td>
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<tr>
<td>MATH 181 - Calculus I (4 units) OR</td>
<td></td>
</tr>
<tr>
<td>APST 270 - Introduction to Statistical Methods (4 units) *</td>
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</tr>
</tbody>
</table>

Note(s):

* MATH 126R or a satisfactory score on the math placement examination are prerequisites for these courses.

C. Natural Sciences (6-8 units)

Select one course from each group (BIOL 191 and BIOL 192, and CHEM 121A and CHEM 121L count as one course):

**Group 1- Life Sciences:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100 - Biology: Principles and Applications (3 units) OR</td>
<td></td>
</tr>
<tr>
<td>ENV 100 - Humans and the Environment (3 units) OR</td>
<td></td>
</tr>
<tr>
<td>BIOL 191 - Introduction Organismal Biology (3 units) AND</td>
<td></td>
</tr>
<tr>
<td>BIOL 192 - Principles of Biological Investigation (2 units)</td>
<td></td>
</tr>
</tbody>
</table>

**Group 2 - Physical Sciences:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 100 - Molecules and Life in the Modern World (3 units) OR</td>
<td></td>
</tr>
<tr>
<td>CHEM 121A - General Chemistry I (3 units) AND</td>
<td></td>
</tr>
<tr>
<td>CHEM 121L - General Chemistry Laboratory I (1 unit) OR</td>
<td></td>
</tr>
<tr>
<td>CHEM 201 - General Chemistry for Scientists and Engineers I (4 units) OR</td>
<td></td>
</tr>
<tr>
<td>GEOL 100 - Earthquakes, Voic, Nat (3 units) OR</td>
<td></td>
</tr>
<tr>
<td>GEOL 101 - General Geology (4 units) OR</td>
<td></td>
</tr>
<tr>
<td>PHYS 100 - Introduction to Physics (3 units) OR</td>
<td></td>
</tr>
<tr>
<td>PHYS 151R - Gen Physics I &amp; Lab (4 units) OR</td>
<td></td>
</tr>
<tr>
<td>PHYS 180 - Physics for Scientists and Engineers I (3 units)</td>
<td></td>
</tr>
</tbody>
</table>

D. Social Sciences (3 units)

Refer to the “Social Sciences” section of the Core Curriculum chapter in this catalog.
E. Fine Arts (3 units)
Refer to the “Fine Arts” section of the Core Curriculum chapter in this catalog.

F. Core Humanities (9 units)
Refer to the “Core Humanities” section of the Core Curriculum chapter in this catalog.

G. Capstone Courses (6 units)
   EDUC 413 - Education for a Changing World (3 units)
For the second Capstone, refer to the “Capstone” section of the Core Curriculum chapter in this catalog.

H. Diversity (3 units)
   EDSP 411 - Students with Disabilities in General Education Settings (3 units)

II. Additional College Requirements (6-7 units)
A. Physical Science
   Select an additional chemistry, geology or physics course from the Core Curriculum Natural Sciences list (3-4 units)

B. Life Science
   One additional biology course (3 units)

III. Education Major Requirements (30 units)
   EDU 214 - Preparing Teachers to Use Technology (3 units)
   EDU 210 - Nevada School Law (3 units)
   EDU 202 - Introduction to Teaching (Secondary) (3 units)
   EPY 330B - Principles of Educational Psychology/Secondary (3 units)
   EDRL 451 - Reading and Writing in the Secondary School (3 units) *
   EDRL 473 - Methods for Adolescent and Adult English Learners (3 units) *
   EDUC 413 - Education for a Changing World (0 units) (Units counted in Core Curriculum Capstone section above.)
   EDSP 411 - Students with Disabilities in General Education Settings (0 units) (Units counted in Core Curriculum Diversity section above.)
   EDSC 321 - Secondary Education Pedagogy I (3 units) *
   EDSC 321P - Secondary Practicum I: The Middle School Practica (2 units) *
   EDSC 404 - Secondary Pedagogy II (3 units) *
   EDSC 404P - Secondary Practicum II: The High School Practica (1 unit) *
   Major Methods course (3 units) - see list below:
   Major Methods Course (must correspond to teaching major)
   EDSC 473 - Teaching Secondary Social Studies (3 units) *
   EDCT 465 - Teaching in Career & Technical Education *
   EDSC 463 - Teaching Secondary Science (3 units) *
   EDSC 453 - Teaching Secondary Mathematics (3 units) *
   EDSC 443 - Teaching Secondary foreign/Second Language (3 units) *
   EDSC 433 - Teaching Secondary English (3 units) *
   Note(s):
* Require admission to teacher education major
** Prerequisite for EDSC 404 and major methods course.

** IV. Teaching Major Requirements (30-61 units)  
See advisor for list of requirements.

** V. Minor Requirements (0 units)  

** VI. Electives (0-18 units)

** VII. Supervised Internship (12 units)  

** VIII. Total Units (120-132 units)  
Total units may exceed 120-132 depending upon teaching major selected.

** IX. Recommended Schedule  

A. First Year (29-38 units)  
- ENG 102 - Composition II (3 units)  
- MATH 127R - Precalculus II (3 units)  
- Core Curriculum Fine Arts (3 units)  
- Core Curriculum Social Sciences (3 units)  
- EDU 214 - Preparing Teachers to Use Technology (3 units)  
- EDU 210 - Nevada School Law (3 units)  
- Life sciences courses (5-6 units)  
- ENV 100 - Humans and the Environment (3 units) OR  
- BIOL 100 - Biology: Principles and Applications (3 units) OR  
- BIOL 191 - Introduction Organismal Biology (3 units) AND  
- BIOL 192 - Principles of Biological Investigation (2 units)  
- Courses in teaching major and/or electives (3-9 units)**  

B. Second Year (27-32 units)  
- CH 201 - Ancient and Medieval Cultures (3 units)  
- CH 202 - The Modern World (3 units)  
- CH 203 - American Experiences and Constitutional Change (3 units)  
- EDU 202 - Introduction to Teaching (Secondary) (3 units)  
- Physical sciences courses (6-8 units) - choose from Core Natural Sciences Group A courses in  
  CHEM, GEOL, or PHYS  
- Courses in teaching major and/or electives (9-12 units)**  

C. Third Year (29-32 units)  
- Core Curriculum General Capstone (3 units)  
- Courses in teaching major and/or electives (12-15 units)**  
- EPY 330B - Principles of Educational Psychology/Secondary (3 units)  
- EDSC 321 - Secondary Education Pedagogy I (3 units)  
- EDSC 321P - Secondary Practicum I: The Middle School Practica (2 units)  
- EDRL 451 - Reading and Writing in the Secondary School (3 units)  
- EDRL 473 - Methods for Adolescent and Adult English Learners (3 units)  
- Admission to Licensure Program  

D. Fourth Year (21-38 units)  
- Remaining courses in teaching major or electives (8-25 units)
EDSP 411 - Students with Disabilities in General Education Settings (3 units) *
EDUC 413 - Education for a Changing World (3 units) *
EDSC 404 - Secondary Pedagogy II (3 units) *
EDSC 404P - Secondary Practicum II: The High School Practica (1 unit) *
Methods course in Teaching Major (3 units) *

**E. Fifth Year (12 units - following completion of bachelor's degree)**

Students who want to be certified to teach must complete a fulltime, one semester internship, and the PRAXIS II exam(s).

EDSC 483 - Secondary Supervised Teaching Internship (1 to 12 units S/U Only)

Note(s):

* Course prerequisite: admission to licensure program.
** The number of teaching units required in a particular teaching major determines the number of elective credits required to fulfill the total unit requirements of 120-132.

Transfer agreements: 6256, 6355, 6454, 6552
Implementation: FL13

<table>
<thead>
<tr>
<th>EN</th>
<th>CEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>372</td>
<td>101944</td>
</tr>
</tbody>
</table>
| Change course title | Approved
OLD: Strength of Materials
NEW: Mechanics of Solids

Abbrev: Mechanics of Solids
Offerings: Every Fall and Spring
Transfer agreements: No changes anticipated
Implementation: SP14

<table>
<thead>
<tr>
<th>EN</th>
<th>CEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>381</td>
<td>101949</td>
</tr>
</tbody>
</table>
| Change course title, description | Tabled; need student learning outcomes
OLD: Structural Analysis I (3+0) 3 units
Principles and techniques of structural mechanics and their application to the analysis of engineering structures.
Prereq: CEE 372 with a “C” or better.

NEW: Structural Analysis (3+0) 3 units
Fundamental and modern analysis techniques for statically indeterminate beams, trusses and frames; loads, internal forces, deflections, energy methods; introduction to stiffness methods with computational software.
Prereq: CEE 372 with a “C” or better.

Abbrev: Structural Analysis
Offerings: Every Fall and Spring
Transfer agreements: No changes anticipated
Implementation: SP14

<table>
<thead>
<tr>
<th>EN</th>
<th>CEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>390R</td>
<td>101953</td>
</tr>
</tbody>
</table>
| Change | Tabled; need student learning outcomes
OLD: CEE 390R - Fundamentals of Environmental Engineering Design (3+0) 3 units
Application of fundamental concepts used to design processes for conventional water and wastewater systems.

Abbrev: Environmental Engineering Design
Offerings: Every Fall and Spring
Transfer agreements: No changes anticipated
Implementation: SP14
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 390</td>
<td>Environmental Engineering Systems: Principles and Design (3+0) 3 units</td>
</tr>
<tr>
<td><strong>NEW: Foundation Engineering Design (3+0) 3 units</strong></td>
<td>Field investigations, analysis of footings, mats, piers, and piles and offshore applications. Stress distribution, settlement, time rate of settlement and load capacity. (Major Capstone).</td>
</tr>
<tr>
<td>Abbrev: Foundation Engineering Design</td>
<td></td>
</tr>
<tr>
<td>Offerings: Every Fall</td>
<td></td>
</tr>
<tr>
<td>Transfer agreements: No changes anticipated</td>
<td></td>
</tr>
<tr>
<td>Implementation: SP14</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 442</td>
<td>Geotechnical Engineering: Retaining Structures (3+0) 3 units</td>
</tr>
<tr>
<td><strong>NEW: Retaining Structures Design (3+0) 3 units</strong></td>
<td>Rigid and flexible earth retaining structures: rigid, anchored bulkhead, braced cut, tie-back cut, slurry trench walls, MSE (metallic and geosynthetic) walls with applications to infrastructure projects.</td>
</tr>
<tr>
<td>Prereq: CEE 442 with a “C” or better.</td>
<td></td>
</tr>
<tr>
<td>Abbrev: Retaining Structures Design</td>
<td></td>
</tr>
<tr>
<td>Offerings: Every Fall</td>
<td></td>
</tr>
<tr>
<td>Transfer agreements: No changes anticipated</td>
<td></td>
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<tr>
<td>Implementation: SP14</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 413</td>
<td>Design of Water Treatment Facilities (2+3) 3 units</td>
</tr>
<tr>
<td><strong>Approved pending rewritten student learning outcomes</strong></td>
<td></td>
</tr>
<tr>
<td><strong>OLD: Geotechnical Engineering: Retaining Structures (3+0) 3 units</strong></td>
<td>Analysis of rigid and flexible earth retaining structures: retaining wall, anchored bulkhead, braced cut, tie-back cut, slurry trench wall, reinforced earth wall and cofferdam.</td>
</tr>
<tr>
<td>Prereq: CEE 442 with a “C” or better.</td>
<td></td>
</tr>
<tr>
<td><strong>NEW: Retaining Structures Design (3+0) 3 units</strong></td>
<td>Rigid and flexible earth retaining structures: rigid, anchored bulkhead, braced cut, tie-back cut, slurry trench and MSE (metallic and geosynthetic) walls with applications to infrastructure projects.</td>
</tr>
<tr>
<td>Prereq: CEE 442 with a “C” or better.</td>
<td></td>
</tr>
<tr>
<td>Abbrev: Retaining Structures Design</td>
<td></td>
</tr>
<tr>
<td>Offerings: Every Fall</td>
<td></td>
</tr>
<tr>
<td>Transfer agreements: No changes anticipated</td>
<td></td>
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<tr>
<td>Implementation: SP14</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 364R</td>
<td>CEE 413; ENGR 301; ENGR 360 or NRES 414.</td>
</tr>
</tbody>
</table>

Approved by CB Director OK
| EN  | CEE  | 463/663  
101987 | **NEW: Design of Water Treatment Systems (3+0) 3 units**  
Design of treatment processes and systems used to produce drinking water. (Major Capstone).  
Prereq: CEE 390 with a “C” or better; CEE 413; ENGR 301; ENGR 360 or NRES 414.  
Abbrev: Design of Water Treatment Syst  
Offerings: Every Fall  
Transfer agreements: No changes anticipated  
Implementation: SP14 |
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td>Approved</td>
</tr>
</tbody>
</table>
|  |  |  | OLD: Traffic Engineering (3+0) 3 units  
Studies in highway and traffic engineering operations, management and operations of traffic facilities.  
Prereq: CEE 362. |
|  |  |  | NEW: Traffic Operations (3+0) 3 units  
Studies in traffic operations, intersection control, and traffic impact analysis.  
Prereq: CEE 362 |
|  |  |  | Abbrev: Traffic Operations  
Offerings: Every Fall  
Transfer agreements: No changes anticipated  
Implementation: SP14 |
|  |  |  | NA OK |
|  |  |  | Approve pending substantial rewrite of student learning outcomes |
|  |  |  | OLD: Structural Design (3+0) 3 units  
Introduction to design of structural systems in concrete.  
Prereq: CEE 372 with a “C” or better. |
|  |  |  | NEW: Structural Concrete Design I (3+0) 3 units  
Analysis and design of reinforced concrete members for flexure, shear and axial loads; deflection of beams; bond and development of reinforcement.  
Prereq: CEE 372 with a “C” or better. |
|  |  |  | Abbrev: Structural Concrete Design I  
Offerings: Every Spring  
Transfer agreements: No changes anticipated  
Implementation: SP14 |
|  |  |  | NA OK |
|  |  |  | Approve pending rewritten student learning outcomes |
|  |  |  | OLD: Structural Analysis II (3+0) 3 units  
Classical methods of structural analysis for static and dynamic loads and structural stability including matrix formulation for application of electronic computers.  
Prereq: CEE 381 with a “C” or better. |
|  |  |  | NEW: Computational Structural Analysis (3+0) 3 units  
Theory and application of direct stiffness method for truss and frame structures. Formulation of various structural elements and programming applications.  
Prereq: CEE 371; CEE 381 with a “C” or better. |
<table>
<thead>
<tr>
<th>Code</th>
<th>Department</th>
<th>Course Code</th>
<th>Course Title and Description</th>
<th>Action</th>
<th>Notes</th>
</tr>
</thead>
</table>
| EN   | CEE        | 487/687 102003 | **Approved pending minor rewrite of student learning outcomes**  
OLD: Reinforced Concrete Design II (3+0) 3 units  
Continuation of CEE 480 with emphasis upon design of reinforced concrete structures. Prereq: CEE 480.  
NEW: Structural Concrete Design II (3+0) 3 units  
Abbrev: Structural Concrete Design II  
Offering: Other  
Transfer agreements: No changes anticipated  
Implementation: SP14 | NA | OK |
| EN   | ENGR       | 620         | **Approved**  
ADD: Renewable Energy in the Community and Home (3+0) 3 units  
Introduction to small-scale, bottom-up strategies of renewable energy use in the home and local community. Recommended Prep: ENGR 600.  
Abbrev: Renewable Energy in Community  
Offerings: Every Fall  
Transfer agreements: N/A  
Implementation: FL13 | NA | NA |
| EN   | ENGR       | 630         | **Approved pending rewritten student learning outcomes**  
ADD: Wind Energy (3+0) 3 units  
Introduction to wind energy and the development of the wind power industry. Recommended Prep: ENGR 600.  
Abbrev: Wind Energy  
Offerings: Every Fall  
Transfer agreements: N/A  
Implementation: FL13 | NA | NA |
| ID   | ENGR       |             | **Approved**  
Track I students - Program Office, SEM 132, (775) 784-6925  
Track II students - Program Office, MSS (775) 784-4601  
The interdisciplinary minor in renewable energy is open to all undergraduate students. Separate tracks are available to students in engineering and to students outside engineering, allowing both technical and nontechnical students to study this dynamic field. Regardless of the track chosen, the program is designed to ensure that students are exposed to the technical, economic, and policy issues relevant to renewable energy. | NA | NA |
Track I is designed for students in engineering who seek specialization in the interdisciplinary studies of renewable energy sources, power generation and fuel production technologies, renewable energy policy, and the economics of various energy sources. Students in chemical engineering, electrical engineering, materials science and mechanical engineering will find this minor complements their major and provides them with the background needed to start a career in renewable energy. Students in other technical majors may also find this track appealing. All students are encouraged to consult with their major advisor to discuss the suitability of the minor to their individual long-term goals.

Track II is designed primarily for students in disciplines other than engineering. These students will receive training in the basic technical aspects of renewable energy as well as learning about energy policy and the economics of various energy sources. Students in any major may pursue this track. This track may be particularly appealing to students interested in science, environmental studies, political science and business.

All students are encouraged to consult with their major advisor in selection of this minor.

The objective of the interdisciplinary renewable energy minor is to provide students with technical skills, economic and political background, and analysis and design skills that will help them to apply the knowledge gained in their major to the important national issues of alternative and renewable energy. Students will be exposed to a broad range of technical and social/political disciplines necessary to understand the sources of renewable energy, technical and economic decisions involved in using alternative energy sources, and the policy and regulatory issues that influence the development and adoption of alternative energy resources.
Track I

Following are the requirements for students enrolled in Track I. Substitutions must be approved by the Associate Dean of Engineering. There are three requirements:

18 units are required. A maximum of 9 units from the students major may be applied toward the minor. In addition, a minimum of 9 units must be at the 300 or 400 level.

All Track I students are required to take:
- ENGR 110 - Introduction to Renewable Energy OR
- PSC 110 - Introduction to Renewable Energy (3 units)

The remaining 15 units are selected from the following:
- CHE 232 - Principles of Chemical Engineering (3 units)
- CHE 301 - Introduction to Sustainable Energy Resources (3 units)
- CHE 361 - Chemical Engineering Thermodynamics (2 units)
- CHE 410R - Renewable Energy Systems (3 units)
- CEE 204R - Introduction to Environmental Engineering (3 units)
- CEE 390R - Fundamentals of Environmental Engineering Design (3 units)
- CEE 411 - Environmental Law (3 units)
- CEE 413 - Water Resources Engineering (3 units)
- ECON 102 – Principles of Microeconomics (3 units)
- ECON 309 - Resource Economics (3 units)
- EE 240 - Fundamentals & Economics of Renewable & Nonrenewable Energy (3 units)
- EE 340 - Power System Fundamentals (3 units)
- EE 443 – Electric Power Distribution (3 units)
- EE 444 – Power System Protection (3 units)
- EE 445R - Power System Operation with Renewable Energy Sources (3 units)
- ENGR 308 - Impact of Global Economy (3 units)
- ENGR 457 - National Geothermal Academy (1 to 6 units) OR
- GEOL 457 - National Geothermal Academy (1 to 6 units)
- ENRG 132 – Solar Photovoltaic Technologies (3 units) (TMCC Course)
- ENRG 142 – Solar Thermal Technologies (3 units) (TMCC Course)
- ENRG 172 – Fluids, Piping, Valves, and Pumps (4 units) (TMCC course)
- ENRG 173 – Geothermal Plants, Turbines, and Generators (3 units) (TMCC course)
- GEOL 101 - General Geology (4 units)
- GEOL 206 - Geology of Geothermal Energy Resources (TMCC course)
- GEOL 407 - Earth Resources and Energy: The End of Oil? (3 units)
- CHE 311 - Engineering Thermodynamics I (3 units) OR
- ME 311 - Engr Thermodynamics I (3 units)
- ME 414 – Intermediate Heat Transfer (3 units)
- ME 420 - Heat Transfer in Renewable Energy Systems (3 units)
- ME 474 - Active Solar Engineering (3 units)
- ME 475 - Introduction to Combustion (3 units)
- ME 476 - Internal Combustion Engines (3 units)
NRES 467 - Regional and Global Issues in Environment Sciences (3 units)
PHYS 400 - Energy: Principles, Sources and Problems (3 units)
PSC 210 - American Public Policy (3 units)
PSC 403B - Energy Politics and Policy (3 units) OR
PSC 403C - Environmental Policy (3 units) OR
PSC 403D - Global Environmental Policy (3 units) OR
PSC 403G - Land and Water Resource Policy (3 units) OR
PSC 403M – Climate Change Mitigation and Adaptation Policy (3 units)
MINE 425 - Engineering Power (3 units)
MINE 456 - Mining and Sustainable Development (3 units)

Track II

The following are the requirements for the students enrolled in Track II. Substitutions must be approved by the minor advisor. There are four requirements.
18 units are required. A maximum of 9 units from the students major may be applied toward the minor. In addition, a minimum of 9 units must be at the 300 or 400 level.

All Track II students are required to take:

ENGR 110 OR PSC 110 - Introduction to Renewable Energy (3 units)

Six lower-division units are required from the following:
CHEM 121A - General Chemistry I (4 3 units) OR
CHEM 201 - General Chemistry for Scientists and Engineers I (4 units)
CHEM 122A - General Chemistry II (3 units) OR
CHEM 202 – General Chemistry for Scientist and Engineers II (4 units)
ECON 102 - Principles of Microeconomics (3 units)
EE 240 - Fundamentals & Economics of Renewable & Nonrenewable Energy (3 units)
GEOL 101 - General Geology (4 units)
GEOL 206 - Geology of Geothermal Energy Resources (TMCC course)
NRES 210 - Environmental Pollution (3 units)
PHYS 151R – General Physics I and Lab OR
PHYS 151A – General Physics Lecture I OR
PHYS 152R - Gen Physics II & Lab (4 units)
PHYS 180 - Physics for Scientists and Engineers I (3 units)
PHYS 152R - Gen Physics II & Lab (4 units) OR
PHYS 152A – General Physics Lecture II OR
PHYS 181 – Physics for Scientists and Engineers II
PSC 210 - American Public Policy (3 units)

Nine upper-division units are required from the following:
CHE 301 - Introduction to Sustainable Energy Resources (3 units)
ECON 307 - Environmental Economics (3 units)
ECON 309 - Resource Economics (3 units)
| EN  | ENGR | Create Pre-Major for degree programs | Approved: A recommendation has been made to the Provost whose decision is pending further discussion with the college. | NA | NA |

**Transfer Students**
A student from outside the University of Nevada, Reno, who wishes to be accepted into the College of Engineering must follow general university policy for admission.

**Admission to Major**
New undergraduate applicants to the College of Engineering are admitted to pre-major status (pre-mechanical engineering, pre-chemical engineering, pre-civil engineering, pre-environmental engineering, pre-materials science and engineering, pre-electrical engineering, pre-computer science and engineering, pre-engineering physics) upon matriculation. Students with a pre-major status may not enroll in College of Engineering courses numbered 300 or above. Application to an
An engineering major has two steps: (1) Complete the appropriate form to declare an engineering major, found at [http://www.unr.edu/engineering/student-resources/advising](http://www.unr.edu/engineering/student-resources/advising); (2) make an appointment and bring the completed form to a meeting with an advisor at the Engineering Advising Center.

The requirements for admission to an engineering major are:

- complete all courses listed in the recommended schedule for the first two semesters of the selected major, as given in this catalog and
- be in good academic standing, with a GPA of at least 2.0 in the first year curriculum. Any courses requiring a grade of “C” or better must be passed with that grade.

Baccalaureate Degree Requirements

The university core curriculum requirements are satisfied by engineering core and departmental major requirements. Transfer students may meet core curriculum and departmental requirements with similar course work from other colleges and universities.

Transfer agreements: Changes possible

Implementation: FL13

<table>
<thead>
<tr>
<th>COURSE</th>
<th>OLD PRE/COREQ</th>
<th>NEW PRE/COREQ</th>
</tr>
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<tbody>
<tr>
<td>JOUR 303</td>
<td>JOUR 207; JOUR 208.</td>
<td>JOUR 207; JOUR 208; JOUR 300; major or minor status.</td>
</tr>
<tr>
<td>JOUR 305</td>
<td>JOUR 207; JOUR 208.</td>
<td>JOUR 207; JOUR 208; major or minor status.</td>
</tr>
<tr>
<td>JOUR 313</td>
<td>JOUR 207; JOUR 208.</td>
<td>JOUR 207; JOUR 208; JOUR 300 or JOUR 318 or JOUR 319 or JOUR 320; major or minor status.</td>
</tr>
<tr>
<td>JOUR 317</td>
<td>NONE</td>
<td>JOUR 318; major or minor status.</td>
</tr>
<tr>
<td>JOUR 318</td>
<td>JOUR 207; JOUR 208.</td>
<td>JOUR 207; JOUR 208; major or minor status.</td>
</tr>
<tr>
<td>JOUR 319</td>
<td>JOUR 207; JOUR 208.</td>
<td>JOUR 207; JOUR 208; major or minor status. Coreq: Core Math Req</td>
</tr>
<tr>
<td>JOUR 320</td>
<td>JOUR 207; JOUR 208.</td>
<td>JOUR 207; JOUR 208; major or minor status.</td>
</tr>
<tr>
<td>JOUR 323</td>
<td>JOUR 207; JOUR 208.</td>
<td>JOUR 207; JOUR 208; JOUR 318 or JOUR 319 or JOUR 320; major or minor status.</td>
</tr>
<tr>
<td>JOUR 351</td>
<td>JOUR 207; JOUR 208.</td>
<td>JOUR 207; JOUR 208; major or minor status.</td>
</tr>
<tr>
<td>JOUR 354</td>
<td>NONE</td>
<td>JOUR 300 or JOUR 318 or JOUR 319 or JOUR 320; major or minor status.</td>
</tr>
<tr>
<td>JOUR 418/618</td>
<td>JOUR 207; JOUR 208.</td>
<td>JOUR 207; JOUR 208; JOUR 318; major or minor status.</td>
</tr>
<tr>
<td>JOUR 421</td>
<td>JOUR 323.</td>
<td>JOUR 323; major status.</td>
</tr>
<tr>
<td>JOUR 423</td>
<td>JOUR 421.</td>
<td>JOUR 421; major status.</td>
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<tr>
<td>JOUR 430</td>
<td>JOUR 351.</td>
<td>JOUR 351; major status.</td>
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<td>JOUR 432</td>
<td>JOUR 351.</td>
<td>JOUR 351; major status.</td>
</tr>
<tr>
<td>JOUR 442</td>
<td>JOUR 351.</td>
<td>JOUR 351; major status.</td>
</tr>
<tr>
<td>JOUR 443</td>
<td>JOUR 442.</td>
<td>JOUR 442; major status.</td>
</tr>
<tr>
<td>JOUR 446/646</td>
<td>JOUR 335 or JOUR 351.</td>
<td>JOUR 335 or JOUR 351; major status.</td>
</tr>
<tr>
<td>JOUR 451/651</td>
<td>JOUR 207; JOUR 208.</td>
<td>JOUR 207; JOUR 208; JOUR 300 or JOUR 318 or JOUR 319 or JOUR 320; major or minor status.</td>
</tr>
<tr>
<td>Course Code</td>
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<td>Old Description</td>
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<tr>
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</tr>
<tr>
<td>JOUR 351</td>
<td>Transfer agreements: No changes anticipated</td>
<td>OLD: Public Relations and Advertising Principles for IMC (3+0) 3 units</td>
</tr>
<tr>
<td>JOUR 361</td>
<td>Transfer agreements: No changes anticipated</td>
<td>ADD: Writing for Strategic Communications (3+0) 3 units</td>
</tr>
<tr>
<td>JOUR 430</td>
<td>Change course title, description, and outcomes</td>
<td>OLD: Advertising for Media for IMC (3+0) 3 units</td>
</tr>
<tr>
<td>JOUR 432</td>
<td>Change course title, description</td>
<td>OLD: Advertising Copywriting for IMC (3+0) 3 units</td>
</tr>
</tbody>
</table>
**NEW: Creative Solutions for Strategic Communications (3+0) units**

*Application of strategic communications concepts to creating messages on a variety media platforms. Requires the development of a personal creative portfolio.*

Prereq: JOUR 351.

Abbrev: Creative Solutns for Strat Comm  
Offerings: Every Fall and Spring  
Transfer agreements: No change anticipated  
Implementation: SP14

<table>
<thead>
<tr>
<th>JO</th>
<th>JOUR</th>
<th>442</th>
<th>108675</th>
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<tbody>
<tr>
<td><strong>Change course title, description and outcomes</strong></td>
<td><strong>Approved</strong></td>
<td>OLD: Public Relations Case for IMC (3+0)</td>
<td>3 units</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Application of the principles and techniques of public relations to the solving of representative problems.</td>
<td>(Formerly JOUR 440; implemented Spring 2006.)</td>
</tr>
<tr>
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<td>Prereq: JOUR 351</td>
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<tr>
<td></td>
<td></td>
<td>NEW: Advanced Strategic Communications (3+0)</td>
<td>3 units</td>
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<tr>
<td></td>
<td></td>
<td>Application of the principles and techniques of strategic communications in managing advertising and public relations to the solving of representative problems through strategic thinking and qualitative research for a real organization.</td>
<td>Stresses the use of marketing research data.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prereq: JOUR 351</td>
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</table>
| | | Abbrev: Advanced Strategic Comm  
Offerings: Every Fall and Spring  
Transfer agreements: No changes anticipated  
Implementation: SP14 | |

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<tr>
<td><strong>Change course title, description and outcomes</strong></td>
<td><strong>Approved</strong></td>
<td>OLD: Public Relations Problems for IMC (3+0)</td>
<td>3 units</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Practical experience in solving public relations problems for non-profit organizations in the community.</td>
<td>Prereq: JOUR 351.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEW: Strategic Communications Campaigns Studio (3+0)</td>
<td>3 units</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Practical experience in solving strategic communications problems and building a campaign for national or global organizations. (By recommendation).</td>
<td>Prereq: JOUR 351.</td>
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</table>
| | | Abbrev: Strategic Comm Campaigns  
Offerings: Every Fall and Spring  
Transfer agreements: No changes anticipated  
Implementation: SP14 | |

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<th>460/660</th>
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<tbody>
<tr>
<td><strong>Create new course</strong></td>
<td><strong>Approved</strong></td>
<td>ADD: News Studio (2+1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Design and produce a multi-platform journalism product.</td>
</tr>
</tbody>
</table>
### B. Journalism Electives (15 units)

Any upper-division journalism course, not in the Journalism Core, may apply here. In consultation with a journalism advisor, students will select one of the following emphases and choose at least 9 units from the selected emphasis in partial fulfillment of the 15-unit Journalism elective requirement.

*At the time they declare the major, students are invited to select an emphasis specializing in a particular professional field (e.g., News, Strategic Communication, Visual Design). Students are strongly recommended, but not required to select one of these emphases. Overall, students must complete 5 upper-division classes, TWO of which must be at the 400-level.*

#### Emphases

##### C. News

**Required Courses (9 units)**

- JOUR 460 – New Studio (3 units)

**Choose TWO of the following:**

- JOUR 323 – Radio News And Production (3 units)
- JOUR 421 – TV News & Production I (3 units)
- JOUR 423 – TV News/Production II (3 units)

- JOUR 318 - Narrative Journalism (3 units)
- JOUR 319 – Data Journalism (3 units)
- JOUR 320 – Social Journalism (3 units)

**Elective Courses (3 units)**

Choose at least ONE of the following courses (this course may be taken in conjunction with the second of your 300-level news classes).

- JOUR 303 – Media Graphics (3 units)
- JOUR 313 – Photojournalism (3 units)
- JOUR 317 – Travel Writing (3 units)
- JOUR 323 – Radio News and Production (3 units)
- JOUR 354 – Game Design (3 units)
- JOUR 418 – Magazine Writing (3 units)
- JOUR 451 – Interactive Media (3 units)

#### Strategic Communication

**Required Courses (9 units)**
JOUR 351 – Principles for Strategic Communications (3 units)

Choose TWO of the following:
- JOUR 361 – Writing for Strategic Communications (3 units)
- JOUR 442 – Advanced Strategic Communications (3 units)
- JOUR 430 – Media Selection for Strategic Communications (3 units)
- JOUR 432 – Creative Solutions for Strategic Communications (3 units)

Based on their performance in these prior courses, students may be invited to participate in one or both of the following courses (faculty permission is required):
- JOUR 433R – IMC Competition
- JOUR 443 – Strategic Communications Campaign Studio

Visual Design
Required Courses (12 units)
- JOUR 300 – Visual Communication (3 units)
- JOUR 460 – News Studio (3 units)

Choose at least TWO of the following:
- JOUR 303 – Media Graphics (3 units)
- JOUR 313 – Photojournalism (3 units)
- JOUR 354 – Game Design (3 units)

Other Upper-Division Electives
Many other upper-division electives are taught semester-to-semester. Please check the schedule of classes on the RSJ website for a list of those courses taught in a given semester. For a complete list of journalism courses, visit the Course Description section in the online catalog at http://catalog.unr.edu

D. Strategic Communications

JOUR 351 – Public Relations & Advertising Principles for IMC (3 units)
JOUR 442 – Public Relations Case Studies for IMC (3 units)
JOUR 443 – Public Relations Problems for IMC (3 units)

JOUR 430 – Advertising Media for IMC (3 units) OR
JOUR 432 – Advertising Copywriting for IMC (3 units) OR
JOUR 433R – IMC Competition (3 units)

Transfer agreements: No changes anticipated
## Approved

### III. Major Requirements

#### Writing Specialization (36 units)

**A. Required courses (12 units):**
- ENG 281 - Introduction to Language (3 units) OR
- ENG 282 - Introduction to Language and Literary Expression (3 units)
- ENG 298 - Writing About Literature (3 units)
- **ENG 301R - Understanding Arguments (3 units)**
- ENG 303 - Introduction to Literary Theory and Criticism (3 units)
- ENG 401B - Advanced Non-Fiction (3 units)

**B. Four three-credit courses selected from the following (12 units):**
- ENG 301R - Understanding Arguments (3 units)
- ENG 305 - Fundamentals of Creative Writing: Fiction I (3 units)
- ENG 306 - Fundamentals of Creative Writing: Fiction II (3 units)
- ENG 307 - Fundamentals of Creative Writing: Poetry I (3 units)
- ENG 308 - Fundamentals of Creative Writing: Poetry II (3 units)
- ENG 333 - Professional Communications (3 units)
- ENG 400A - Topics in Writing (3 units)
- ENG 400B - Topics in Professional Writing (1 to 3 units)
- ENG 403A - Advanced Creative Writing: Fiction I (3 units)
- ENG 403B - Advanced Creative Writing: Fiction II (3 units)
- ENG 404A - Advanced Creative Writing: Poetry I (3 units)
- ENG 404B - Advanced Creative Writing: Poetry II (3 units)
- ENG 405A - Professional Editing and Publishing (3 units)
- ENG 406A - Document Design (3 units)
- ENG 407B - Fundamentals of Technical Writing (3 units)
- ENG 408B - Tutoring Student Writers (3 units)
- ENG 408C - Teaching of Composition (3 units)
- ENG 409A - Northern Nevada Writing Project (1 to 5 units)
- ENG 409C - Contemporary Rhetorical Theory and Criticism (3 units)
- ENG 475A - American Autobiography (3 units)
- ENG 475B - Literary Nonfiction (3 units)
- JOUR 418 - Magazine Writing (3 units)

**C. Additional approved 400-level English courses (12 units)**

Students may take as many as 12 units in creative writing in this specialization, as long as they are not all in one genre. Only one 400-level General Capstone in English may be used toward fulfilling these requirements.

### IV. Minor Requirements (18-21 units)

The English Department accepts any minor approved by the College of Liberal Arts.

### V. Electives (0-24 units)

### VI. Total Units (120 units)
Forty-two or more units must be in courses numbered 300 - 499.

Transfer agreements: 6290, 6389, 6488, 6586
Implementation: FL13

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<tr>
<th>Course</th>
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<th>Description</th>
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<td>LBA FLL</td>
<td>295p 106601</td>
<td>Reactivate course</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Approved</strong> Independent Language Study 1 to 2 units</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OLD: Open to qualified students in the following languages: (c) Chinese, (d) Classical Greek, (e) Ancient Hebrew, (f) Japanese, (g) Latin, (h) Gaelic, (i) Hindi (j) French, (k) German, (m) Russian, (n) Spanish, (r) Italian, (t) Twi, (z) Czech. At least one conference per week with instructor concerned. Maximum of 4 credits in any one language.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEW: Open to qualified students in the following languages: (c) Chinese, (d) Classical Greek, (e) Ancient Hebrew, (f) Japanese, (g) Latin, (h) Gaelic, (i) Hindi (j) French, (k) German, (m) Russian, (n) Spanish, (p) Portuguese, (r) Italian, (t) Twi, (z) Czech. At least one conference per week with instructor concerned. Maximum of 4 credits in any one language.</td>
</tr>
</tbody>
</table>

| Abbrev: Independent Language Study |
| Offerings: Every Summer – in Brazil (USAC) |
| Transfer agreements: N/A |
| Implementation: SU13 |

| LBA FLL | ITAL 321 | Create new course |
|        |      | **Approved** Italian Culture and Civilization (3+0) 3 units |
|        |      | ADD: Analyze various aspects of Italian culture through lectures, readings, discussions, and research projects. Offered through USAC only. |
|        |      | Prereq: 4 semesters of college-level Italian. |

| Abbrev: Italian Culture |
| Offerings: Every Fall, Spring, and Summer |
| Transfer agreements: N/A |
| Implementation: FL13 |

| LBA HIST | 300A | Create new course |
|        |      | **Approved with updated description** Digitizing History (3+0) 3 units |
|        |      | ADD: Background, information technology skills to research, produce web-based historical information. Cognition, business models, law ethics, web design, video, primary source databases, community outreach project. |

| Abbrev: Digitizing History |
| Offerings: Every Spring |
| Transfer agreements: No changes anticipated |
| Implementation: SP14 |

| LBA MIL | MR-MIL M564 | Update course listing |
|        |      | **Approved** Minor Interest Subject (Military Science) |
|        |      | A. Basic course requirement (2-8 units) |
|        |      | Option 1: MIL 204 - Leader's Training Course (2 units) OR |
|        |      | Option 2: |
MIL 101 - Leadership and Personal Development (2 units) AND
MIL 102 - Introduction to Tactical Leadership (2 units) AND
MIL 201R - Innovative Team Leadership (2 units) AND
MIL 202 - Foundations of Tactical Leadership (2 units)

B. Advanced course requirement (14 units)
- MIL 301R - Leadership in Small Unit Operations (3 units)
- MIL 302 - Leadership in Changing Environments (3 units)
- MIL 303 - Leader Development and Assessment Course (2 units)
- MIL 401 - Adaptive Leadership (3 units)
- MIL 402 - Leadership in a Complex World (3 units)

C. Military History Requirement (3 units)
Choose one of the following:
- HIST 202 – American Military History (3 units)
- HIST 408R – World War II from a Global Perspective (3 units)
- HIST 387 – Western War and Modern Societies (3 units)
- HIST 401 - American Constitutional History (3 units)
- HIST 406D - The Civil War in American Culture (3 units)
- HIST 406R - War, Culture and Society in American History (3 units)
- HIST 407B - United States Foreign Relations II (3 units)
- HIST 412 - Revolution & New Republic (3 units)
- HIST 418 - History of the U.S.-American Indian Relations (3 units)
- HIST 464 - Europe: 1914-Present (3 units)
- HGPS 415 – Vietnam: Conflict and Consequences (3 units)

Total Units (19-25 units)
Transfer agreements: N/A
Implementation: FL13

LBA  PSC  603N  114313  Create new course to be crosslisted with ENGR 610

Approved
ADD: Renewable Energy Policy (3+0)  3 units
Focuses on policy instruments utilized to foster use and development of renewable energy. Introduces analytic framework to understand policy impacts and examining policy interventions.
Recommended Prep: ENGR 600.
Abbrev: Renewable Energy Policy
Offerings: Every Fall
Transfer agreements: N/A
Implementation: FL13

SCI  GEOG  470  106925  Change course components
Tabled; need student learning outcomes
OLD: Geographic Explorations 1 to 3 units S/U only (Lecture)
NEW: Geographic Explorations 1 to 3 units S/U only (Lecture and Lab)
Multiple enrollment in one term allowed
Abbrev: Geographic Explorations
Offerings: Every Summer
Transfer agreements: No changes anticipated  
Implementation: SU14

<table>
<thead>
<tr>
<th>SCI</th>
<th>MINE</th>
<th>General Emphasis</th>
<th>Approved</th>
<th>2198 Change required courses</th>
</tr>
</thead>
</table>

### I. University Core Curriculum Requirements (36-44 units)

NOTE: Refer to the Core Curriculum chapter of this catalog for information regarding the “Core English and Math Completion Policy”.

#### A. English (3-8 units)

Refer to the “English” section of the Core Curriculum chapter in this catalog.

NOTE: Students who place into ENG 102 are not required to complete ENG 101.

#### B. Mathematics (4 units)

Refer to the “Mathematics” section of the Core Curriculum chapter in this catalog.

- **MATH 181** - Calculus I (4 units)

#### C. Natural Sciences (8 units)

- **GEOL 101** - General Geology (4 units)
- **CHEM 121A** - General Chemistry I (3 units) AND **CHEM 121L** - General Chemistry Laboratory I (1 unit) OR **CHEM 201** - General Chemistry for Scientists and Engineers I (4 units)

#### D. Social Sciences (3 units)

- **ECON 102** - Principles of Microeconomics (3 units)

#### E. Fine Arts (3 units)

Refer to the “Fine Arts” section of the Core Curriculum chapter in this catalog. Must not be a skills course.

#### F. Core Humanities (9 units)

Refer to the “Core Humanities” section of the Core Curriculum chapter in this catalog.

#### G. Capstone Courses (6 units)

- **MINE 418** - Mine Feasibility (3 units)
- **MINE 472** - World Mineral Economics (3 units)

#### H. Diversity (0-3 units)

- **MINE 472** - World Mineral Economics (0 units) (Units counted in Core Curriculum Capstone section above.)

### II. Additional Requirements (0 units)

### III. Major Requirements (92 units)

#### A. Basic Mathematics and Sciences Requirements (16 units)

- **MATH 182** - Calculus II (4 units)
- **MATH 283R** - Calculus III (4 units)
| PHYS 180 - Physics for Scientists and Engineers I (3 units) |
| PHYS 180L - Physics for Scientists and Engineers Laboratory I (1 unit) |
| PHYS 181 - Physics for Scientists and Engineers II (3 units) |
| PHYS 181L - Physics for Scientists and Engineers Laboratory II (1 unit) |

### B. Geology Requirements (10 units)
- GEOL 211 - Earth Materials and Geochemistry I (3 units)
- GEOL 332 - Struc Tec, Erth Phys I (4 units)
- GE 385 - Geological Engineering Data Analysis (3 units)

### C. Engineering Sciences Requirements (49 units)
- EE 220 - Circuits I (3 units)
- MSE 322 - Mineral Processing I (3 units)
- MSE 324 - Mineral Processing Laboratory (1 unit)
- CEE 372 - Strength of Materials (3 units)
- ME 242 - Dynamics (3 units)
- ME 311 - Engr Thermodynamics I (3 units)
- CEE 241 - Statics (3 units) OR
- ME 241 - Statics (3 units)

### D. Mining Engineering Requirements (45 units)
- MINE 101R - Mining Engineering I (2 units)
- MINE 102R - Mining Engineering II (2 units)
- MINE 210 - Mining Methods (2 units)
- MINE 242 - Introduction to Mineral Map Making and Mine Surveying (2 units)
- MINE 243 - Applied Mine Surveying (2 units)
- MINE 305 - Differential Models (1 to 3 units)
- MINE 310 - Materials Handling (3 units)
- MINE 344 - Mine Environmental Control (3 units)
- MINE 350 - Applied Fluids, Pumping and Drainage (3 units)
- MINE 361 - Operations Research Methods (2 units)
- MINE 400 - Mine Mgmt & Admin (1 unit)
- MINE 411 - Mine Economics (2 units)
- MINE 413 - Mineral Reserve Estimation (3 units)
- MINE 415R - Surface Mine Design (2 units)
- MINE 418 - Mine Feasibility (0 units) (Units counted in Core Curriculum Capstone section above.)
- MINE 425 - Engineering Power (3 units)

#### MINE 435 – Robotics (3 units)
- MINE 445 - Rock Excavation (2 units)
- MINE 448 - Rock Mechanics (4 units)
- MINE 456 - Mining and Sustainable Development (3 units)
- MINE 472 - World Mineral Economics (0 units) (Units counted in Core Curriculum Capstone section above - meets Capstone and Diversity requirement.)

### E. General Emphasis Requirements (5 units)
- GEOL 371 - Geology of Natural Resources (2 units)
- MINE 300 - Mineral Industry Practicum (1 unit)
- MINE 416 - Underground Mine Design (2 units)

### IV. Minor Requirements (0 units)
V. Electives (0-4 units)

VI. Total Credits (132 units)

VII. Recommended Schedule

A. First Year
   Fall Semester (17 units)
   - ENG 101 - Composition I (3 units)
   - GEOL 101 - General Geology (4 units)
   - MATH 181 - Calculus I (4 units)
   - MINE 101R - Mining Engineering I (2 units)
   - CHEM 121A - General Chemistry I (3 units) AND CHEM 121L - General Chemistry Laboratory I (1 unit)
   OR
   - CHEM 201 - General Chemistry for Scientists and Engineers I (4 units)
   Spring Semester (16 units)
   - ECON 102 - Principles of Microeconomics (3 units)
   - ENG 102 - Composition II (3 units)
   - MATH 182 - Calculus II (4 units)
   - MINE 102R - Mining Engineering II (2 units)
   - PHYS 180 - Physics for Scientists and Engineers I (3 units)
   - PHYS 180L - Physics for Scientists and Engineers Laboratory I (1 unit)

B. Second Year
   Fall Semester (16 units)
   - GE 385 - Geological Engineering Data Analysis (3 units)
   - GEOL 211 - Earth Materials and Geochemistry I (3 units)
   - MATH 283R - Calculus III (4 units)
   - MINE 210 - Mining Methods (2 units)
   - CEE 241 - Statics (3 units) OR
     ME 241 - Statics (3 units)
   - General Elective (1 unit)
   Spring Semester (16 units)
   - CEE 372 - Strength of Materials (3 units)
   - ME 242 - Dynamics (3 units)
   - MINE 242 - Introduction to Mineral Map Making and Mine Surveying (2 units)
   - MINE 305 - Differential Models (1 to 3 units)
   - **MINE 310 - Materials Handling (3 units)**
   - PHYS 181 - Physics for Scientists and Engineers II (3 units)
   - PHYS 181L - Physics for Scientists and Engineers Laboratory II (1 unit)
   - CH 201 - Ancient and Medieval Cultures (3 units)
   Summer (3 units)
   - MINE 243 - Applied Mine Surveying (2 units)
   - MINE 300 - Mineral Industry Practicum (1 unit)

C. Third Year
   Fall Semester (17 units)
<table>
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<th>Units</th>
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<tr>
<td>MINE 310</td>
<td>Materials Handling</td>
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<tr>
<td>MINE 350</td>
<td>Applied Fluids, Pumping and Drainage</td>
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</tr>
<tr>
<td>MINE 361</td>
<td>Operations Research Methods</td>
<td>2</td>
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<tr>
<td>MINE 411</td>
<td>Mine Economics</td>
<td>2</td>
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<tr>
<td><strong>MINE 435</strong></td>
<td>Robotics (3 units)</td>
<td><strong>3</strong></td>
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<tr>
<td>CH 202</td>
<td>The Modern World</td>
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**Spring Semester (17 units)**

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<tr>
<td>EE 220</td>
<td>Circuits I</td>
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<tr>
<td>ME 311</td>
<td>Engr Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>MSE 322</td>
<td>Mineral Processing I</td>
<td>3</td>
</tr>
<tr>
<td>MSE 324</td>
<td>Mineral Processing Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MINE 344</td>
<td>Mine Environmental Control</td>
<td>3</td>
</tr>
<tr>
<td>MINE 415R</td>
<td>Surface Mine Design</td>
<td>2</td>
</tr>
<tr>
<td>MINE 445</td>
<td>Rock Excavation</td>
<td>2</td>
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**D. Fourth Year**

**Fall Semester (14 units)**

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<td>Geology of Natural Resources</td>
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<td>MINE 413</td>
<td>Mineral Reserve Estimation</td>
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</tr>
<tr>
<td>MINE 416</td>
<td>Underground Mine Design</td>
<td>2</td>
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<tr>
<td>MINE 448</td>
<td>Rock Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>MINE 472</td>
<td>World Mineral Economics</td>
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**Spring Semester (16 units)**

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<td>Mine Mgmt &amp; Admin</td>
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<tr>
<td>MINE 418</td>
<td>Mine Feasibility</td>
<td>3</td>
</tr>
<tr>
<td>MINE 425</td>
<td>Engineering Power</td>
<td>3</td>
</tr>
<tr>
<td>MINE 456</td>
<td>Mining and Sustainable Development</td>
<td>3</td>
</tr>
<tr>
<td>CH 203</td>
<td>American Experiences and Constitutional Change</td>
<td>3</td>
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<tr>
<td>Core Curriculum Fine Arts</td>
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Transfer agreements: 6328, 6427, 6526, 6624
Implementation: FL13

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<th>SCI</th>
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<tbody>
<tr>
<td><strong>Approved</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>I. University Core Curriculum Requirements (36-44 units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>NOTE</strong>: Refer to the Core Curriculum chapter of this catalog for information regarding the “Core English and Math Completion Policy”.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. <strong>English</strong> (3-8 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refer to the “English” section of the Core Curriculum chapter in this catalog.</td>
<td></td>
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</tr>
<tr>
<td><strong>NOTE</strong>: Students who place into ENG 102 are not required to complete ENG 101.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. <strong>Mathematics</strong> (4 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refer to the “Mathematics” section of the Core Curriculum chapter in this catalog.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MATH 181</strong> - Calculus I (4 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. <strong>Natural Sciences</strong> (8 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>GEOL 101</strong> - General Geology (4 units)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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University Courses & Curricula Committee Minutes
Page 32 of 48
<p>| C. Engineering Sciences Requirements (46 12 units) |
| EE 220 - Circuits I (3 units) |
| CEE 372 - Strength of Materials (3 units) |
| ME 242 - Dynamics (3 units) |
| ME 311 - Engr Thermodynamics I (3 units) |
| CEE 241 - Statics (3 units) OR |
| ME 241 - Statics (3 units) |
| D. Mining Engineering Requirements (46 49 units) |
| MINE 101R - Mining Engineering I (2 units) |
| MINE 102R - Mining Engineering II (2 units) |
| MINE 210 - Mining Methods (2 units) |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINE 242</td>
<td>Introduction to Mineral Map Making and Mine Surveying</td>
<td>2</td>
</tr>
<tr>
<td>MINE 243</td>
<td>Applied Mine Surveying</td>
<td>2</td>
</tr>
<tr>
<td>MINE 305</td>
<td>Differential Models</td>
<td>1</td>
</tr>
<tr>
<td>MINE 310</td>
<td>Materials Handling</td>
<td>3</td>
</tr>
<tr>
<td>MINE 322</td>
<td>Mineral Processing I</td>
<td>3</td>
</tr>
<tr>
<td>MINE 324R</td>
<td>Mineral Processing Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MINE 344</td>
<td>Mine Environmental Control</td>
<td>3</td>
</tr>
<tr>
<td>MINE 350</td>
<td>Applied Fluids, Pumping and Drainage</td>
<td>3</td>
</tr>
<tr>
<td>MINE 361</td>
<td>Operations Research Methods</td>
<td>2</td>
</tr>
<tr>
<td>MINE 400</td>
<td>Mine Mgmt &amp; Admin</td>
<td>1</td>
</tr>
<tr>
<td>MINE 411</td>
<td>Mine Economics</td>
<td>2</td>
</tr>
<tr>
<td>MINE 413</td>
<td>Mineral Reserve Estimation</td>
<td>3</td>
</tr>
<tr>
<td>MINE 415R</td>
<td>Surface Mine Design</td>
<td>2</td>
</tr>
<tr>
<td>MINE 418</td>
<td>Mine Feasibility</td>
<td>0</td>
</tr>
<tr>
<td>MINE 425</td>
<td>Engineering Power</td>
<td>3</td>
</tr>
<tr>
<td>MINE 435</td>
<td>Robotics</td>
<td>3</td>
</tr>
<tr>
<td>MINE 445</td>
<td>Rock Excavation</td>
<td>2</td>
</tr>
<tr>
<td>MINE 448</td>
<td>Rock Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>MINE 456</td>
<td>Mining and Sustainable Development</td>
<td>3</td>
</tr>
<tr>
<td>MINE 472</td>
<td>World Mineral Economics</td>
<td>0</td>
</tr>
</tbody>
</table>

**E. Quarry Emphasis Requirements (6 units)**

- CEE 377 - Construction Materials (4 units)
- MINE 380 - Quarry Mining (2 units)
- MINE AAA - Mineral Industry Employment (0 units)

**IV. Minor Requirements (0 units)**

**V. Electives (0-3 units)**

**VI. Total Units (132 units)**

**VII. Recommended Schedule**

**A. First Year**

**Fall Semester (17 units)**

- ENG 101 - Composition I (3 units)
- GEOL 101 - General Geology (4 units)
- MATH 181 - Calculus I (4 units)
- MINE 101R - Mining Engineering I (2 units)
- CHEM 121A - General Chemistry I (3 units) AND
- CHEM 121L - General Chemistry Laboratory I (1 unit)
- OR
- CHEM 201 - General Chemistry for Scientists and Engineers I (4 units)

**Spring Semester (16 units)**

- ECON 102 - Principles of Microeconomics (3 units)
- ENG 102 - Composition II (3 units)
- MATH 182 - Calculus II (4 units)
MINE 102R - Mining Engineering II (2 units)
PHYS 180 - Physics for Scientists and Engineers I (3 units)
PHYS 180L - Physics for Scientists and Engineers Laboratory I (1 unit)

**B. Second Year**

**Fall Semester (15 units)**
- GE 385 - Geological Engineering Data Analysis (3 units)
- GEOL 211 - Earth Materials and Geochemistry I (3 units)
- MATH 283R - Calculus III (4 units)
- MINE 210 - Mining Methods (2 units)
- CEE 241 - Statics (3 units) OR
- ME 241 - Statics (3 units)

**Spring Semester (16 units)**
- CEE 372 - Strength of Materials (3 units)
- ME 242 - Dynamics (3 units)
- MINE 242 - Introduction to Mineral Map Making and Mine Surveying (2 units)
- MINE 305 - Differential Models (1 to 3 units)
- **MINE 310 - Materials Handling (3 units)**
- PHYS 181 - Physics for Scientists and Engineers II (3 units)
- PHYS 181L - Physics for Scientists and Engineers Laboratory II (1 unit)
- CH 201 - Ancient and Medieval Cultures (3 units)

**Summer (2 units)**
- MINE 243 - Applied Mine Surveying (2 units)
- MINE AAA - Mineral Industry Employment (0 units)

**C. Third Year**

**Fall Semester (17 units)**
- GEOL 332 - Struc Tec, Erth Phys I (4 units)
- **MINE 310 - Materials Handling (3 units)**
- MINE 350 - Applied Fluids, Pumping and Drainage (3 units)
- MINE 361 - Operations Research Methods (2 units)
- MINE 411 - Mine Economics (2 units)
- **MINE 435 – Robotics (3 units)**
- CH 202 - The Modern World (3 units)

**Spring Semester (16 units)**
- ME 311 - Engr Thermodynamics I (3 units)
- MINE 322 - Mineral Processing I (3 units)
- MINE 324R - Mineral Processing Laboratory (1 unit)
- MINE 344 - Mine Environmental Control (3 units)
- MINE 380 - Quarry Mining (2 units)
- MINE 415R - Surface Mine Design (2 units)
- MINE 445 - Rock Excavation (2 units)

**D. Fourth Year**

**Fall Semester (17 units)**
- EE 220 - Circuits I (3 units)
- CEE 377 - Construction Materials (4 units)
- MINE 413 - Mineral Reserve Estimation (3 units)
- MINE 448 - Rock Mechanics (4 units)
- MINE 472 - World Mineral Economics (3 units)
<table>
<thead>
<tr>
<th>SCI</th>
<th>MINE</th>
<th>Process Metallurgy Emphasis 2198 Change required courses</th>
</tr>
</thead>
</table>

### Approved

#### I. University Core Curriculum Requirements (36-44 units)

NOTE: Refer to the Core Curriculum chapter of this catalog for information regarding the “Core English and Math Completion Policy”.

##### A. English (3-8 units)

Refer to the “English” section of the Core Curriculum chapter in this catalog.

NOTE: Students who place into ENG 102 are not required to complete ENG 101.

##### B. Mathematics (4 units)

Refer to the “Mathematics” section of the Core Curriculum chapter in this catalog.

- MATH 181 - Calculus I (4 units)

##### C. Natural Sciences (8 units)

- GEOL 101 - General Geology (4 units)
- CHEM 121A - General Chemistry I (3 units) AND CHEM 121L - General Chemistry Laboratory I (1 unit)
  OR
- CHEM 201 - General Chemistry for Scientists and Engineers I (4 units)

##### D. Social Sciences (3 units)

- ECON 102 - Principles of Microeconomics (3 units)

##### E. Fine Arts (3 units)

Refer to the “Fine Arts” section of the Core Curriculum chapter in this catalog. Must not be a skills course.

##### F. Core Humanities (9 units)

Refer to the “Core Humanities” section of the Core Curriculum chapter in this catalog.

##### G. Capstone Courses (6 units)

- MINE 418 - Mine Feasibility (3 units)
- MINE 472 - World Mineral Economics (3 units)

##### H. Diversity (0-3 units)

- MINE 472 - World Mineral Economics (0 units) (Units counted in Core Curriculum Capstone section above.)

#### II. Additional Requirements (0 units)
### III. Major Requirements (92 units)

A. Basic Mathematics and Sciences Requirements (16 units)
- MATH 182 - Calculus II (4 units)
- MATH 283R - Calculus III (4 units)
- PHYS 180 - Physics for Scientists and Engineers I (3 units)
- PHYS 180L - Physics for Scientists and Engineers Laboratory I (1 unit)
- PHYS 181 - Physics for Scientists and Engineers II (3 units)
- PHYS 181L - Physics for Scientists and Engineers Laboratory II (1 unit)

B. Geology Requirements (10 units)
- GEOL 211 - Earth Materials and Geochemistry I (3 units)
- GEOL 332 - Struc Tec, Erth Phys I (4 units)
- GE 385 - Geological Engineering Data Analysis (3 units)

C. Engineering Sciences Requirements (12 units)
- EE 220 - Circuits I (3 units)
- CEE 372 - Strength of Materials (3 units)
- ME 242 - Dynamics (3 units)
- ME 311 - Engr Thermodynamics I (3 units)
- CEE 241 - Statics (3 units) OR
- ME 241 - Statics (3 units)

D. Mining Engineering Requirements (48 units)
- MINE 101R - Mining Engineering I (2 units)
- MINE 102R - Mining Engineering II (2 units)
- MINE 210 - Mining Methods (2 units)
- MINE 242 - Introduction to Mineral Map Making and Mine Surveying (2 units)
- MINE 243 - Applied Mine Surveying (2 units)
- MINE 310 - Materials Handling (3 units)
- MINE 322 - Mineral Processing I (3 units)
- MINE 324R - Mineral Processing Laboratory (1 unit)
- MINE 344 - Mine Environmental Control (3 units)
- MINE 350 - Applied Fluids, Pumping and Drainage (3 units)
- MINE 361 - Operations Research Methods (2 units)
- MINE 400 - Mine Mgmt & Admin (1 unit)
- MINE 411 - Mine Economics (2 units)
- MINE 413 - Mineral Reserve Estimation (3 units)
- MINE 415R - Surface Mine Design (2 units)
- MINE 418 - Mine Feasibility (0 units) (Units counted in Core Curriculum Capstone section above.)
- MINE 425 - Engineering Power (3 units)

**MINE 435 – Robotics (3 units)**

- MINE 445 - Rock Excavation (2 units)
- MINE 448 - Rock Mechanics (4 units)
- MINE 456 - Mining and Sustainable Development (3 units)
- MINE 472 - World Mineral Economics (0 units) (Units counted in Core Curriculum Capstone section above - meets both General Capstone and Diversity requirements.)

E. Process Metallurgy Emphasis Requirements (6 units)
- MET 410 - Pyrometallurgy (3 units)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET 431</td>
<td>Hydrometallurgy</td>
<td>3</td>
</tr>
<tr>
<td>MINE AAA</td>
<td>Mineral Industry Employment</td>
<td>0</td>
</tr>
</tbody>
</table>

### IV. Minor Requirements (0 units)

### V. Electives (0-4 units)

### VI. Total Units (132 units)

### VII. Recommended Schedule

#### A. First Year

**Fall Semester (17 units)**
- ENG 101 - Composition I (3 units)
- GEOL 101 - General Geology (4 units)
- MATH 181 - Calculus I (4 units)
- MINE 101R - Mining Engineering I (2 units)
- CHEM 121A - General Chemistry I (3 units) AND CHEM 121L - General Chemistry Laboratory I (1 unit)
  - OR
  - CHEM 201 - General Chemistry for Scientists and Engineers I (4 units)

**Spring Semester (16 units)**
- ECON 102 - Principles of Microeconomics (3 units)
- ENG 102 - Composition II (3 units)
- MATH 182 - Calculus II (4 units)
- MINE 102R - Mining Engineering II (2 units)
- PHYS 180 - Physics for Scientists and Engineers I (3 units)
- PHYS 180L - Physics for Scientists and Engineers Laboratory I (1 unit)

#### B. Second Year

**Fall Semester (15 units)**
- GE 385 - Geological Engineering Data Analysis (3 units)
- GEOL 211 - Earth Materials and Geochemistry I (3 units)
- MATH 283R - Calculus III (4 units)
- MINE 210 - Mining Methods (2 units)
- CEE 241 - Statics (3 units) OR
  - ME 241 - Statics (3 units)

**Spring Semester (15 units)**
- CEE 372 - Strength of Materials (3 units)
- ME 242 - Dynamics (3 units)
- MINE 242 - Introduction to Mineral Map Making and Mine Surveying (2 units)
  - **MINE 310 - Materials Handling (3 units)**
- PHYS 181 - Physics for Scientists and Engineers II (3 units)
- PHYS 181L - Physics for Scientists and Engineers Laboratory II (1 unit)
- CH 201 - Ancient and Medieval Cultures (3 units)

**Summer (2 units)**
- MINE AAA - Mineral Industry Employment (0 units)
- MINE 243 - Applied Mine Surveying (2 units)

#### C. Third Year
### Fall Semester (17 units)
- GEOL 332 - Struc Tec, Erth Phys I (4 units)
- MINE 310 - Materials Handling (3 units)
- MINE 350 - Applied Fluids, Pumping and Drainage (3 units)
- MINE 361 - Operations Research Methods (2 units)
- MINE 411 - Mine Economics (2 units)

**MINE 435 – Robotics (3 units)**

### Spring Semester (17 units)
- EE 220 - Circuits I (3 units)
- ME 311 - Engr Thermodynamics I (3 units)
- MINE 322 - Mineral Processing I (3 units)
- MINE 324R - Mineral Processing Laboratory (1 unit)
- MINE 344 - Mine Environmental Control (3 units)
- MINE 415R - Surface Mine Design (2 units)
- MINE 445 - Rock Excavation (2 units)

### D. Fourth Year

#### Fall Semester (17 units)
- MINE 413 - Mineral Reserve Estimation (3 units)
- MET 431 - Hydrometallurgy (3 units)
- MINE 472 - World Mineral Economics (3 units)
- Core Curriculum Fine Arts (3 units)
- General Elective (1 unit)

#### Spring Semester (16 units)
- MINE 400 - Mine Mgmt & Admin (1 unit)
- MINE 418 - Mine Feasibility (3 units)
- MINE 425 - Engineering Power (3 units)
- MINE 456 - Mining and Sustainable Development (3 units)
- CH 203 - American Experiences and Constitutional Change (3 units)
- MET 410 - Pyrometallurgy (3 units)

Transfer agreements: 6329, 6428, 6527, 6625
Implementation: FL13

### ITEMS PENDING GRAD COUNCIL –

### PROPOSED CHANGES

<table>
<thead>
<tr>
<th>ED</th>
<th>ED</th>
<th>MA/M.Ed in Special Education</th>
<th>Approved</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Graduate students may major in counseling and educational psychology, educational leadership, elementary education, secondary education, special education, literary studies and Human Development and Family</td>
<td>Approved GC 4/30/13; Elimination</td>
</tr>
</tbody>
</table>

Grad Council Approval / Core Board | CCN
Approved | NA

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Eliminate MA - 2990; decrease the number of credits for M.Ed - 2066.

Eliminate MA - 2990; decrease the number of credits for M.Ed - 2066.

Studies (HDFS).

The five areas of emphasis available:
- Educational Psychology
- Information Technology in Education
- Marriage and Family Therapy
- School Counseling
- Human Development and Family Studies

Five areas of emphasis are offered in the educational leadership major. The areas are:
- The Principalship
- Program Administration
- The Superintendency
- Higher Education Administration
- Educational Foundations

Master's degrees are available in secondary education and elementary education. Students may choose an emphasis in Curricular Studies; Mathematics, Science, Technology and Society; or an emphasis in another teaching content area.

M.Ed. or M.A. in Special Education (with various areas of emphasis)
M.Ed. or M.A. in Literacy Studies
M.Ed. or M.S. in Equity and Diversity in Education (pedagogy for diverse learners)

For students who are not licensed Nevada teachers, licensure courses may be taken as part of a master’s degree. Several areas of emphasis are available within each. For students holding a teaching license, it is possible to earn credits toward an endorsement in ESL. In addition, it is also possible, upon admission to a post baccalaureate licensure program (in elementary, special or secondary education), to concurrently pursue a graduate certificate in Teaching English as a Second Language. See the departments for more information.

The specific curriculum requirements are adapted to the professional needs of the student. Students should not enroll in any graduate-level course without first securing the approval of the department that such a course is acceptable toward a selected major or minor.

Generally, students are advised to enroll in improvement courses for in-service education on the graduate level. These courses are also offered in extension or branch centers, workshops, short conferences, evening schools and individual problem courses by arrangement. Inquiries are encouraged.

In order to earn the master of arts, master of science and master of education degrees, students must complete 32 to 48 credits of approved courses with a major in education. Master of arts and master of science degree programs, in some areas, may also require a six-credit thesis, bringing the total credit load to 36-60 credits. A nonthesis master of arts or master of science degree option, which includes the completion of 32 to 60 credits, may also be selected. Program outlines can be obtained from each of the programs in the College of Education. All degree candidates are required to complete a research course. In addition, all students, not writing a thesis, are required to take 1 to 3 credits of comprehensive examination or professional project which may or may not be above the 32 to 48 credits of approved courses.

A maximum of six graduate credits of S/U grades may be applied toward a master's degree requiring at least 32

needs BOR approval
OR this version:

In addition to admission requirements specified by each department, applicants must be qualified in the professional judgment of the College of Education faculty.

I. Contact Information
Mary Ann Demchak, Associate Dean/Professor, College of Education
Office: (775)682-7852
mad@unr.edu

II. Brief Introduction:
The M.Ed. in special education has five emphases that students may take depending upon the disability licensure area in which the student is interested. The five areas of emphasis available are:
- Generalist Emphasis
- Intellectual Disabilities: Moderate to Intense
- Advanced Studies in Learning and Behavior Disorders
- Autism and Related Disorders
- Early Childhood Special Education

III. Program Objectives / Learning Outcomes

IV. Admission Requirements
For students who are not licensed Nevada teachers, licensure courses may be taken as part of a master's degree. Several areas of emphasis are available within each. For students holding a teaching license, it is possible to earn credits toward an endorsement in ESL. In addition, it is also possible, upon admission to a post-baccalaureate licensure program (in elementary, special or secondary education), to concurrently pursue a graduate certificate in Teaching English as a Second Language. See the departments for more information.

The specific curriculum requirements are adapted to the professional needs of the student. Students should not enroll in any graduate-level course without first securing the approval of the department that such a course is acceptable toward a selected major or minor.

Generally, students are advised to enroll in improvement courses for in-service education on the graduate level. These courses are also offered in extension or branch centers, workshops, short conferences, evening schools and individual problem courses by arrangement. Inquiries are encouraged. In addition to admission requirements specified by each department, applicants must be qualified in the professional judgment of the College of Education faculty.

a. Program Requirements
   - **Thesis Option (39 units)**
   - **Required Courses (9 units)**
     - EDUC 680 (for Learning/Behavior Disorders or Autism/Related Disorders emphases) OR EDUC 741B (for Intellectual Disabilities or Early Childhood Special Education emphases)
Intellectual Disabilities Emphases (24 units)
EDSP 712
EDSP 719
EDSP 667
EDSP 668
EDSP 720
EDSP 721
EDSP 725A
Research Course related to thesis

Learning and Behavior Emphases (24 units)
EDSP 719
EDSP 713
EDSP 714
EDSP 715
EDSP 720
EDSP 721
EDSP 725D
Research Course related to thesis

Autism & Related Disorders (24 units)
EDSP 668
EDSP 722
EDSP 726
EDSP 720
EDSP 721
EDSP 719
EDSP 725G
Research Course related to thesis

Early Childhood Special Education (24 units)
EDSP 672
EDSP 671
EDSP 718
EDSP 676
EDSP 677
EDSP 725 E or F
Additional Course (e.g., EDSP 668 or EDSP 712)
Research Course related to thesis

Thesis (6 units)
EDS 797

Non-thesis Option (34 units)

Generalist Emphasis
Core Courses (9 units)
EDUC 741B
EDRS 700  
EDSP 652  

Emphasis Courses (25 units)  
EDSP 711, EDSP 713 or EDSP 715  
EDSP 643  
EDSP 632  
EDSP 653  
EDSP 644  
EDSP 663  
EDSP 724  
EDSP 725B  
EDS 795 (1 unit)  

Intellectual Disabilities: Moderate to Intense Needs  
Core Courses (9 units)  
EDUC 680  
EDRS 700  
EDSP 719  

Emphasis Area (25 units)  
EDSP 632  
EDSP 667  
EDSP 668  
EDSP 712  
EDSP 720  
EDSP 721  
EDSP 724  
EDSP 725A  
EDS 795 (1 unit)  

Advanced Studies in Learning and Behavior Disorders  
Core Courses (9 units)  
EDUC 680  
EDRS 700  
EDSP 719  

Emphasis Area (25 units)  
EDSP 713  
EDSP 714  
EDSP 715  
EDSP 720  
EDSP 721  
EDSP 724  
EDSP 725 B or D  
General Elective  
EDS 795 (1 unit)
### Autism and Related Disorders
Core Courses (9 units)
- EDUC 680
- EDRS 700
- EDSP 719

Emphasis Area (25 units)
- EDSP 722
- EDSP 720
- EDSP 668
- EDSP 721
- EDSP 726
- EDSP 724
- EDSP 725G
- Additional Course for Licensure (e.g., EDSP 632)
- EDS 795 (1 unit)

### Early Childhood Education
Core Courses (9 units)
- EDUC 741B
- EDRS 700
- EDSP 718

Emphasis Area (25 units)
- EDSP 672
- EDSP 671
- EDSP 676
- EDSP 677
- EDSP 632
- EDSP 724
- EDSP 725E or F
- Additional Course (e.g., EDSP 668 or EDSP 712)
- EDS 795 (1 unit)

<table>
<thead>
<tr>
<th>Program Total Hours:</th>
</tr>
</thead>
<tbody>
<tr>
<td>In order to earn the Master of Education degree in Special Education students must complete 36 to 48 <strong>34 – 39 units. Students can choose between a thesis option and a non-thesis option.</strong> Master of arts and master of science degree programs, in some areas, may also require a six credit thesis, bringing the total credit load to 36-60 credits. A nonthesis master of arts or master of science degree option, which includes the completion of 36 to 60 credits, may also be selected. Program outlines can be obtained from each of the programs in the College of Education. All degree candidates are required to complete a research course. In addition, All students <strong>not writing a thesis</strong>, are required to take 1 unit to 3 credits of comprehensive examination or professional project which may or may not be above the <strong>34 units</strong> 36 to 48 credits of approved courses. A maximum of six</td>
</tr>
</tbody>
</table>
graduate credits of S/U grades may be applied toward a master's degree requiring at least 36
32 semester credits.
Note: Master's degrees are available in secondary education and elementary education.
Students may choose an emphasis in Curricular Studies; Mathematics, Science, Technology
and Society; or an emphasis in another teaching content area.
M.Ed. or M.A. in Special Education (with various areas of emphasis)
M.Ed. or M.A. in Literacy Studies
M.Ed. or M.S. in Equity and Diversity in Education (pedagogy for diverse learners)

VI. Undergraduate Requirements

Transfer agreements: N/A
Implementation: FL13
project the second semester. The student’s host organization must provide written consent approving both the leave of absence for the student and the applied project that will be completed in-country for the host organization.

VI. Program Total Hours (12 units)

VII. Undergraduate Requirement
A bachelor's degree in a field related to water resources.

Transfer agreements: N/A
Implementation: FL13

<table>
<thead>
<tr>
<th>LBA</th>
<th>HIST</th>
<th>Create new Graduate Certificate</th>
<th>Approved Certificate of Graduate Studies in History</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Approved GC 4/30/13</td>
<td></td>
</tr>
</tbody>
</table>

I. Contact Information
Mack Social Sciences 243
(775) 784-6855
jenni@unr.edu

II. Brief Introduction
This program is designed for, but not limited to, classroom teachers in social studies seeking advanced preparation in specific history content areas.

III. Program Objectives/Student Learning Outcomes
Students will improve their professional preparation by expanding knowledge of content areas and research and writing skills, selecting areas of study linked to their professional goals.

IV. Admission Requirements
To pursue the certificate, the student must meet one of these requirements: a Bachelor’s degree in a humanities or social science; a Bachelor’s degree in Education; or Teaching Credential.

V. Program Requirements
Students pursuing the certificate of Graduate Studies in history must satisfy all the graduate school requirements for admission as a Graduate Special. Students should read the History department Graduate Bulletin.

The completion of twelve units of graduate level course, with a grade of at least a B- is required. At least three units must be taken at the 700-level. Students must notify the Graduate Director of the Department of History, in writing, of their intent to pursue the certificate.

VI. Undergraduate Requirement
Undergraduates may pursue the certificate provided they are working on one of the degrees or credentials described above, and that they meet the requirements of the Graduate School, as stated in this catalog, for undergraduates taking graduate courses.

Transfer agreements: N/A
Implementation: FL13

<table>
<thead>
<tr>
<th>SCI</th>
<th>MATH</th>
<th>Approved Teaching of Mathematics, M.A.</th>
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</thead>
<tbody>
<tr>
<td>SCI</td>
<td>MATH</td>
<td>Approved Teaching of Mathematics, M.A.</td>
</tr>
<tr>
<td>SCI</td>
<td>MATH</td>
<td>Approved Teaching of Mathematics, M.A.</td>
</tr>
</tbody>
</table>

The department of mathematics and statistics offers a graduate program leading to the master of arts for the teaching of mathematics (MATM) degree. The MATM program is designed to expand the mathematical and educational expertise of practicing secondary teachers. The master's degree requires 1 credit of comprehensive examination so the total credits for the degree are 31. The 1 credit comprehensive examination may not be used to satisfy the required 15 credits of 700-level course work. For more information, refer to the Graduate School section of this catalog and the department web page at: Approved GC 4/30/13; Needs BOR approval
CONSENT AGENDA - (Items on the consent agenda are voted upon as a group. Any member of the committee may request that item(s) be removed from the consent agenda for individual consideration)

<table>
<thead>
<tr>
<th>PROPOSED CHANGES</th>
<th>Grad Council Approval / Core Board</th>
<th>CCN</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CABNR</strong> NRES <strong>485/685</strong></td>
<td><strong>Approved</strong></td>
<td>NA</td>
</tr>
<tr>
<td><em>110660 Create new optional lab component</em></td>
<td><strong>OLD: Special Topics 1 to 3 units (Lecture)</strong></td>
<td>NA</td>
</tr>
<tr>
<td><em>NEW: Special Topics 1 to 3 units (Lecture, Optional Lab)</em></td>
<td><strong>Transfer agreements: No changes anticipated</strong></td>
<td>NA</td>
</tr>
<tr>
<td><em>Implementation: FL13</em></td>
<td><strong>Transfer agreements: No changes anticipated</strong></td>
<td>NA</td>
</tr>
</tbody>
</table>

| EN CEE **121/101925** | **Approved** | NA  |
| *Deactivate course* | **DELETE: Elementary Surveying** | NA  |
| **Transfer agreements: No changes anticipated** | **Implementation: FL13** | NA  |

| EN CEE **140R/101927** | **Approved** | NA  |
| *Deactivate course* | **DELETE: Introduction to Civil Engineering** | NA  |
| **Transfer agreements: 6263, 6362, 6461, 6559** | **Implementation: FL13** | NA  |

| LBA ENG **408B** | **Approved** | NA  |
| *Delete practicum component* | **OLD: Tutor Student Writers (2+3) 3 units** | NA  |
| **NEW: Tutor Student Writers (3+0) 3 units** | **Transfer agreements: No changes anticipated** | NA  |

| SCI GEOG **431/631** | **Approved** | NA  |
| *106904 Change components to facilitate PS scheduling* | **OLD: Landforms (2+3) 3 units** | NA  |
| **NEW: Landforms (3+0) 3 units** | **Transfer agreements: No changes anticipated** | NA  |
| **Implementation: FL13** | **Implementation: FL13** | NA  |
### INFORMATIONAL ITEMS

#### PROPOSED CHANGES

| LBA | CRJ | Law and Justice Specialization | No recommended courses for Core Social Science | Acknowledged D. Social Sciences (3 units) | Refer to the “Social Sciences” section of the Core Curriculum chapter in this catalog | Recommended: PSY 101 - General Psychology (3 units) OR SOC 101 - Principles of Sociology (3 units) | NA | NA |

### PENDING ITEMS FROM PRIOR MEETINGS

#### PROPOSED CHANGES

| DHS | NURS | 716 110876 | Change course units, description | NEW: Advanced Ambulatory Pharmacy 1 to 3 units | Reviews drug therapy in ambulatory practice. Legal aspects of prescribing, dispensing, sampling in primary care are addressed. Variable credit dependent on MSN track of enrollment. Prereq(s): NURS 717 R; admission to MSN program. Transfer agreements: N/A Implementation: FL13 | SLO/Recording Statement | Recd updated syl with recording statement – need SLOs |