UNIVERSITY COURSES AND CURRICULA COMMITTEE
September 15, 2014
3-5 p.m.
MIKC 114
MINUTES

Members in attendance: Elena Pravosudova, David Shintani, Sonja Pippin for Kambiz Raffiee, Elliott Parker, Tom Harrison, Indira Chatterjee, Ivy Chin, Anna Panorska, Susan Harris, Donica Mensing, Jane Detweiler, Katherine McCall.
Ex-Officio members in attendance: Joe Cline, Katy Schleef, Melissa Deadmond, Dianne Hilliard, Maureen Cronin, Janet Stake.

Approval of minutes: August 18, 2014 - Approved

Fee Validation Reports - Heather Turk-Fiecoat – There are different types of fees for varying situations. Reports will be created so that departments can review and validate the accuracy of the fee information in PeopleSoft. Heather is seeking feedback. It was suggested that the reports go to the Dean’s office, except for Engineering and Liberal Arts which request the reports be sent to the department chairs.

Curriculog Voting – Elena Pravosudova – Options were reviewed. Maureen will create a table with the various options and distribute it to the committee via email. We can discuss and decide our set-up at the next meeting.

New Program Descriptions for 2016/Silver Core – Elliott Parker – A sample of the proposed new catalog program format was distributed as was the Core Process for Verification and Transfers document. A few notes were made on the Core process. They are being asked to vote via comments, “Yes”, “No”, or “Hold”. Hold items will be discussed at in-person meetings. The new format includes hidden prerequisites. If a large percentage of students do not take the prerequisite course (i.e., ENG 101) then it does not have to be listed but it will be up to the program to show why a prereq is not listed. We are asking for comments and feedback on the proposed program format. Submit comments to Elliott. We will then edit or modify it to come up with the final version.

IB Update – Maureen Cronin – moved to next agenda

PROPOSED CHANGES IN DEGREES, MAJORS, AND COURSES

<table>
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<tr>
<th>WB/WM</th>
<th>CCN</th>
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<tr>
<td>DHS</td>
<td>CHS</td>
<td>230/113733</td>
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<td>Change course number, title, desc, prereq, SLO becoming CHS 330; Approved</td>
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**OLD: CHS 230 - Introduction to Environmental Health**
(3 units)
Environmental health issues including risks to human health from chemical, physical, and biological contaminants in air, water, and soil.

**NEW: CHS 330 - Environmental Health**
(3 units)
Overview of the field of environmental health, broadly emphasizing the influence of natural and anthropogenic environmental factors on human health and disease.
Prereq: CHS 101; CHS 200; CHS 211, BIOL 190.
Abbrev: Environmental Health

Abbrev: Environmental Health
### Create new minor program

**Approved**

**ADD: Minor in Special Education**

The Special Education minor is offered to undergraduates majoring in Secondary Education and/or pursuing a teaching license in secondary education, or as additional credits upon completion of the requirements for an undergraduate degree in an established discipline. The courses in the Special Education minor are required for the Nevada Special Education Generalist Teaching License. The following requirements apply to the minor program in Special Education:

1. At least 18 units of formal courses must be completed in minor discipline, 15 units are upper division course required for the Nevada Special Education Generalist Teaching License.
2. All students must earn a 3.0 GPA in the minor courses in order to be eligible to complete internship/student teaching.
4. Completion of the 18 units fulfills the minor, but may not complete all coursework needed for the Nevada Special Education Generalist Teaching License. The number of additional course required for the teaching license is dependent upon the students major.

**Required Courses:**

- EDU 208 – Mild to Moderate Disabilities (3 units)
- EDSP 432 – Serving Individuals with Disabilities & their Families (3 units)
- EDSP 443 – Special Education Curriculum: General Methods (3 units)
- EDSP 444 – Special Education Curriculum: 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)

Total Units: 18

### Electrical Engineering, B.S. in E.E.

**Tabled**

**Electrical Engineering, B.S. in E.E.**

I. **University Core Curriculum Requirements (37-45 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 (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)
   CHEM 201 - General Chemistry for Scientists and Engineers I (4 units) OR
   CHEM 121A - General Chemistry I (3 units) * AND
   CHEM 121L - General Chemistry Laboratory I (1 unit) *
   PHYS 180 - Physics for Scientists and Engineers I (3 units) * AND
   PHYS 180L - Physics for Scientists and Engineers Laboratory I (1 unit) *

D. Social Sciences (3 units)
   ECON 102 - Principles of Microeconomics (3 units)

E. Fine Arts (3 units)
   Students must take a three-unit course that satisfies the Core Curriculum Fine Arts and
   Diversity requirements, see list below. If the student is unable to take a class that fulfills
   both Fine Arts and Diversity, the student will need to take an additional course.
   DAN 266 - History of Dance II: 20th Century (3 units)
   THTR 210 - Theatre: a Cultural Context (3 units)

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

G. Capstone Courses (7 units)
   EE 490 - Electrical Projects Laboratory (3 units)
   EE 491 - Engineering Design/Analysis (4 units)

H. Diversity (0-3 units)
   Students must take a three-unit course that satisfies the Core Curriculum Fine Arts and
   Diversity requirements, see list below. If the student is unable to take a class that fulfills
   both Fine Arts and Diversity, the student will need to take an additional course.
   DAN 266 - History of Dance II: 20th Century (3 units)
   THTR 210 - Theatre: a Cultural Context (3 units)

II. Additional College Requirements (0 units)

III. Major Requirements (89 units)

A. Communications (3 units)
   ENGR 301 - Engineering Communication (3 units)

B. Mathematics and Sciences (20 units)
   MATH 182 - Calculus II (4 units) *
   MATH 283R - Calculus III (4 units) *
   MATH 285 - Differential Equations (3 units) *
   MATH 330 - Linear Algebra (3 units) *
   MATH 352 - Probability and Statistics (3 units) * OR
   STAT 352 - Probability and Statistics (3 units) *
   PHYS 181 - Physics for Scientists and Engineers II (3 units) *
C. Engineering Science and Design Courses (45 **42** units)

- CS 135 - Computer Science I (3 units) *
- CEE 241 - Statics (3 units) ** OR ** ME 241 - Statics (3 units) **
- CPE 201 - Digital Design (3 units)
- CPE 301 - Embedded Systems Design (3 units)
- ENGR 100 - Introduction to Engineering Design (3 units)
- EE 120 - Fundamentals of Electrical Engineering (3 units)
- EE 220L - Circuits I Laboratory (1 unit)
- EE 220 - Circuits I (3 units) *
- EE 221 - Circuits II (3 units)
- EE 291 - Computer Methods for Electrical Engineers (3 units)
- EE 320L - Electronics I Laboratory (1 unit)
- EE 320R - Electronics I (3 units)
- EE 330R - Engineering Electromagnetics (3 units)
- EE 340 - Power System Fundamentals (3 units)
- EE 362 - Signals and Systems (3 units)
- EE 370L - Control Systems Laboratory (1 unit)
- EE 370R - Control Systems (3 units)
- EE 490 - Electrical Projects Laboratory (0 units) (Units counted in Core Curriculum Capstone section above.)
- EE 491 - Engineering Design/Analysis (0 Units) (Units counted in Core Curriculum Capstone section above.)
- ENGR 490 - Fundamentals of Engineering Exam (0 units)

D. Technical Electives (24 **24** units)

IV. Minor Requirements (0 units)

V. Electives (0-3 units)

VI. Total Units (129 units)

* Must complete these courses with at least a "C"

VII. Recommended Schedule for the General and Renewable Energy Emphases

A. First Year

Fall Semester (17 units)

- CHEM 201 - General Chemistry for Scientists and Engineers I (4 units) OR CHEM 121A - General Chemistry I (3 units) * AND CHEM 121L - General Chemistry Laboratory I (1 unit) *
- ENGR 100 - Introduction to Engineering Design (3 units)
- ENG 101 - Composition I (3 units)
- MATH 181 - Calculus I (4 units) *
- Core Curriculum Fine Arts/Diversity (3 units)
<table>
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<tr>
<th>Semester</th>
<th>Courses</th>
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</table>
| **Spring Semester (17 units)** | CS 135 - Computer Science I (3 units) *  
EE 120 - Fundamentals of Electrical Engineering (3 units)  
ENG 102 - Composition II (3 units)  
MATH 182 - Calculus II (4 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)** | CEE 241 - Statics (3 units) * OR  
ME 241 - Statics (3 units) *  
**ECON 102 – Principles of Microeconomics (3 units)**  
CPE 201 - Digital Design (3 units)  
MATH 283R - Calculus III (4 units) *  
MATH 330 - Linear Algebra (3 units) *  
PHYS 181 - Physics for Scientists and Engineers II (3 units) * |
| **Spring Semester (16 units)** | EE 220L - Circuits I Laboratory (1 unit)  
EE 220 - Circuits I (3 units) *  
EE 291 - Computer Methods for Electrical Engineers (3 units)  
CPE 301 - Embedded Systems Design (3 units)  
CH 201 - Ancient and Medieval Cultures (3 units)  
MATH 285 - Differential Equations (3 units) * |
| **C. Third Year** | |
| **Fall Semester (16 units)** | EE 221 - Circuits II (3 units)  
EE 320L - Electronics I Laboratory (1 unit)  
EE 320R - Electronics I (3 units)  
EE 362 - Signals and Systems (3 units)  
CH 202 - The Modern World (3 units)  
MATH 352 - Probability and Statistics (3 units) * OR  
STAT 352 - Probability and Statistics (3 units) *  
|
| **Spring Semester (16 units)** | CH 203 - American Experiences and Constitutional Change (3 units)  
EE 330R - Engineering Electromagnetics (3 units)  
EE 370L - Control Systems I Laboratory (1 unit)  
EE 370R - Control Systems (3 units)  
EE 340 - Power System Fundamentals (3 units)  
Technical Elective (3 units)  
**ECON 102 – Principles of Microeconomics (3 units)** |
| **D. Fourth Year** | |
VII. Recommended Schedule for the Biomedical Engineering Emphasis

A. First Year

Fall Semester (17 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)
- MATH 181 - Calculus I (4 units) *
- CS 135 - Computer Science I (3 units) *

Spring Semester (17 units)
- MATH 182 - Calculus II (4 units) *
- PHYS 180 - Physics for Scientists and Engineers I (3 units) *
- PHYS 180L - Physics for Scientists and Engineers Laboratory I (1 unit) *
- ENG 102 - Composition II (3 units)
- EE 120 - Fundamentals of Electrical Engineering (3 units)
- CPE 201 - Digital Design (3 units)

B. Second Year

Fall Semester (16 units)
- PHYS 181 - Physics for Scientists and Engineers II (3 units) *
- MATH 283R - Calculus III (4 units) *
- MATH 330 - Linear Algebra (3 units) *
- CEE 241 - Statics (3 units) * OR
- ME 241 - Statics (3 units) *
- ECON 102 – Principles of Microeconomics (3 units)
- CPE 301 - Embedded Systems Design (3 units)

Spring Semester (16 units)
- CH 201 - Ancient and Medieval Cultures (3 units)
- EE 220 - Circuits I (3 units) *
- EE 220L - Circuits I Laboratory (1 unit)
- EE 291 - Computer Methods for Electrical Engineers (3 units)
- MATH 285 - Differential Equations (3 units) *
- BIOL 190 - Introduction to Cell and Molecular Biology (3 units)

C. Third Year
## Fall Semester (16 units)
- CH 202 - The Modern World (3 units)
- EE 221 - Circuits II (3 units)
- EE 320R - Electronics I (3 units)
- EE 320L - Electronics I Laboratory (1 unit)
- EE 362 - Signals and Systems (3 units)

**Technical Elective (3 units)**

- ECON 102 - Principles of Microeconomics (3 units)

## Spring Semester (16 units)
- CH 203 - American Experiences and Constitutional Change (3 units)
- EE 330R - Engineering Electromagnetics (3 units)
- EE 370L - Control Systems I Laboratory (1 unit)
- EE 370R - Control Systems (3 units)
- CHEM 220A - Introductory Organic Chemistry Lecture (3 units)
- Core Fine Arts/Diversity (3 units)

## D. Fourth Year

### Fall Semester (16 units)
- EE 490 - Electrical Projects Laboratory (3 units)
- ENGR 490 - Fundamentals of Engineering Exam (0 units)
- BIOL 191 - Introduction Organismal Biology (3 units)
- BME 401 - Introduction to Biomedical Engineering (3 units)
- MATH 352 - Probability and Statistics (3 units)
- BCH 400 - Introductory Biochemistry (4 units)

### Spring Semester (15 units)
- EE 491 - Engineering Design/Analysis (4 units)
- BME 426 - Biomedical Instrumentation (3 units)
- ENGR 301 - Engineering Communication (3 units)
- Technical Electives - to be selected from the technical elective list (5 units)

Note(s):
* In addition to the general university requirements of at least a "C" (2.0) average for graduation, engineering students must earn at least a "C" in those courses designated with an asterisk (*) and must also maintain at least a "C" average in the Core Curriculum Mathematics, Natural Sciences, and the major requirements courses.

**Technical Electives**

General Emphasis
Senior-year technical electives consist of 24 units. Three Six units must include an (i) upper division courses in biology, business, mathematics, chemistry or physics, computer science or mechanical engineering, or (ii) either CS 202 or ME/CEE 241, or (iii) electrical engineering courses. The remaining eighteen units must be electrical engineering units chosen from courses in the six areas listed below. Students must have at least one course in the five areas of electronics, communications, control, fields, and power. Courses in each elective area are:

Communication:
- EE 410L - Optical Fiber Communication Laboratory (1 unit)
- EE 410 - Optical Fiber Communication (3 units)
- EE 461R - Stochastic Systems (3 units)
- EE 463R - Communication Systems (3 units)
- EE 465 - Wireless Sensor Networks (3 units)
- EE 480 - Digital Signal Processing (3 units)
- EE 492G - Seminar (1 to 4 units)

Computer:
- CPE 400 - Computer Communication Networks (3 units)
- EE 426R - Microprocessor Applications (3 units)

Control:
- EE 471 - Control Systems II (3 units)
- EE 472 - Digital Control Engineering (3 units)

Electronics:
- EE 420 - Electronics II (3 units)
- EE 421 - Digital Electronics (3 units)
- EE 423 - Integrated Circuit Engineering (3 units)
- EE 424R - Biomedical Instrumentation (3 units)
- EE 426R - Microprocessor Applications (3 units)

Fields:
- EE 433 - Distributed Systems and Antenna Design (3 units)
- EE 434R - Electromagnetic Compatibility (3 units)
- EE 435R - Electraoustics (3 units)
- EE 436R - Microwave Engineering (3 units)
- EE 436L - Microwave Engineering Laboratory (1 unit)

Power:
- EE 440 - Power Systems Analysis (3 units)
- EE 441 - Electrical Machines (3 units)
- EE 442 - Power Electronics (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)
The remaining technical elective units may include:

At most, three units of internship may apply here.
- EE 296 - Internship I (1 unit)
- EE 396 - Internship II (1 unit)
- EE 496 - Internship III (1 unit)
- EE 492
- EE 493 (up to 3 units total)
  any EE course listed above under one of the six elective areas
  additional technical courses pre-approved by the department

Renewable Energy Emphasis
This emphasis, administered by the EBME Department, leads to a Bachelor of Science degree in Electrical Engineering. The program is designed for the student seeking a degree in electrical engineering with an emphasis on renewable energy. The required courses are identical to those for a regular BS in EE degree. The senior year technical electives consist of 21 units.

At least twelve of these units must be taken from electrical engineering courses listed below:
- EE 440 - Power Systems Analysis (3 units)
- EE 441 - Electrical Machines (3 units)
- EE 442 - Power Electronics (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)

The remaining technical elective units may include:
- EE 240 - Fundamentals & Economics of Renewable & Nonrenewable Energy (3 units)
- CEE 388 - Engineering Economy (2 units)
- CEE 411 - Environmental Law (3 units)
- CHE 410R - Renewable Energy Systems (3 units)
- ME 311 - Engineering Thermodynamics I (3 units)
- ME 474 - Active Solar Engineering (3 units)
- PSC 403B - Energy Politics and Policy (3 units)

Internship
- EE 296 - Internship I (1 unit)
- EE 396 - Internship II (1 unit)
- EE 496 - Internship III (1 unit) (up to 3 units)
  additional technical courses pre-approved by the department.

Biomedical Engineering Emphasis
This emphasis, administered by the EBME Department, leads to a Bachelor of Science degree in Electrical Engineering. The program is designed for the student seeking a degree in electrical engineering with an emphasis in biomedical engineering. Except for EE 340, the required courses are identical to those for a regular BS in EE degree. Additional
**Required Courses (10 units)**

- BCH 400 - Introductory Biochemistry (4 units)
- BME 401 - Introduction to Biomedical Engineering (3 units)
- BME 426 - Biomedical Instrumentation (3 units)

**Technical Electives (5-8 units)**

- The technical electives units may include:
  - EE 420 - Electronics II (3 units)
  - EE 421 - Digital Electronics (3 units)
  - EE 426R - Microprocessor Applications (3 units)
  - EE 433 - Distributed Systems and Antenna Design (3 units)
  - EE 410 - Optical Fiber Communication (3 units) AND
  - EE 410L - Optical Fiber Communication Laboratory (1 unit)
  - EE 471 - Control Systems II (3 units)
  - EE 472 - Digital Control Engineering (3 units)
  - EE 480 - Digital Signal Processing (3 units)
  - EE 492G - Seminar (1 to 4 units)
  - BIOL 315R - Cell Biology (3 units)
  - BIOL 405 - Molecular Biology (3 units) (prerequisite BIOL 315R)
  - MICR 453 - Immunology (3 units)
  - EE 296, EE 396, EE 496 (up to 3 units)

**Internship**

At most, three units of internship may apply here.

- EE 296 - Internship I (1 unit)
- EE 396 - Internship II (1 unit)
- EE 496 - Internship III (1 unit)

**Transfer agreements: Changes Required**

Implementation: FL15

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**Engineering Physics, B.S. in E.P.**

**I. University Core Curriculum Requirements (40-45 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 (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)
   CHEM 201 - General Chemistry for Scientists and Engineers I (4 units) OR
   CHEM 121A - General Chemistry I (3 units) * AND
   CHEM 121L - General Chemistry Laboratory I (1 unit) *
   PHYS 180 - Physics for Scientists and Engineers I (3 units) * AND
   PHYS 180L - Physics for Scientists and Engineers Laboratory I (1 unit) *

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. 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 (7 units)
   PHYS 400 - Energy: Principles, Sources and Problems (3 units)
   EE 491 - Engineering Design/Analysis (4 units)
   PHYS 497 – Senior Thesis (3 units)

H. Diversity (3 units)
   Refer to the "Diversity" section of the Core Curriculum chapter of this catalog.

II. Additional College Requirements (0 units)

III. Major Requirements (86 units)

A. Additional Mathematics and Sciences (64 units)
   CHEM 202 - General Chemistry for Scientists and Engineers II (4 units) OR
   CHEM 122A - General Chemistry II (3 units) AND
   CHEM 122L - General Chemistry Laboratory II (1 unit)
   CS 135 - Computer Science I (3 units) *
   CS 202 - Computer Science II (3 units)
   MATH 182 - Calculus II (4 units) *
   MATH 283R - Calculus III (4 units) *
   MATH 285 - Differential Equations (3 units) *
   MATH 352 - Probability and Statistics (3 units)* OR
   STAT 352 - Probability and Statistics (3 units)*
   PHYS 181 - Physics for Scientists and Engineers II (3 units) *
   PHYS 181L - Physics for Scientists and Engineers Laboratory II (1 unit) *
   PHYS 182 - Physics for Scientists and Engineers III (3 units)
   PHYS 182L - Physics for Scientists and Engineers Laboratory III (1 unit)
   PHYS 301 - Mathematical Methods for Physics (3 units)
   PHYS 323 - Intermediate Laboratory with Shop Experience (1 unit)
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<td>PHYS 351</td>
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<td>Energy: Principles, Sources and Problems</td>
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<td>PHYS 421R</td>
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**B. Engineering Courses (16 units)**
- CPE 201 - Digital Design | 3 units |
- EE 220 - Circuits I | 3 units |
- EE 220L - Circuits Laboratory | 1 unit |
- EE 221 - Circuits II | 3 units |
- EE 320R - Electronics I | 3 units |
- ENGR 301 - Engineering Communication | 3 units |
- EE 370R - Control Systems | 3 units |
- EE 491 - Engineering Design/Analysis | 0 units |

**C. Science and Technical Electives (6-9 units)**
- Advisor approval required for electives | 6 units |
- Any 400 level course in EE, MATH, PHYS besides the required courses | 9 units |

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

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

**VI. Total Units (129 units)**

*Must complete these courses with at least a "C".

**VII. Recommended Schedule**

**A. First Year**

**Fall Semester (17 units)**
- CHEM 201 - General Chemistry for Scientists and Engineers I | 4 units |
- CHEM 121A - General Chemistry I | 3 units |
- CHEM 121L - General Chemistry Laboratory I | 1 unit |
- CS 135 - Computer Science I | 3 units |
- ENG 101 - Composition I | 3 units |
- MATH 181 - Calculus I | 4 units |
Core Curriculum Diversity (3 units)

Spring Semester (18 units)
- CHEM 202 - General Chemistry for Scientists and Engineers II (4 units) OR
- CHEM 122A - General Chemistry II (3 units) AND
- CHEM 122L - General Chemistry Laboratory II (1 unit)
- CS 202 - Computer Science II (3 units)
- ENG 102 - Composition II (3 units)
- MATH 182 - Calculus II (4 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 (18 units)
- CH 201 - Ancient and Medieval Cultures (3 units)
- CPE 201 - Digital Design (3 units)
- MATH 283R - Calculus III (4 units) *
- MATH 352 - Probability and Statistics (3 units) * OR
- STAT 352 - Probability and Statistics (3 units) *
- PHYS 181 - Physics for Scientists and Engineers II (3 units) *
- PHYS 181L - Physics for Scientists and Engineers Laboratory II (1 unit) *

Spring Semester (14 units)
- CH 202 - The Modern World (3 units)
- EE 220 - Circuits I (3 units) *
- EE 220L - Circuits Laboratory (1 unit) *
- MATH 285 - Differential Equations (3 units) *
- PHYS 182 - Physics for Scientists and Engineers III (3 units)
- PHYS 182L - Physics for Scientists and Engineers Laboratory III (1 unit)
- PHYS 323 - Intermediate Laboratory with Shop Experience (1 unit)

C. Third Year

Fall Semester (16 units)
- CH 203 - American Experiences and Constitutional Change (3 units)
- EE 221 - Circuits II (3 units)
- EE 320R - Electronics I (3 units)
- PHYS 301 - Mathematical Methods for Physics (3 units)
- PHYS 351 - Classical Mechanics (4 units)

Spring Semester (16 units)
- Core Curriculum Fine Arts (3 units)
- Core Curriculum Social Science (3 units)
- EE 370R - Control Systems (3 units)
- PHYS 421R - Quantum Mechanics (3 units)
- PHYS 425 - Therm & Stat Physics (3 units)
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<th>ME 303 109143</th>
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<td>OLD: Applied Numerical Methods (3 units)</td>
<td>Prerequisite(s): MATH 285 with a &quot;C&quot; or better and CS 135 or ME 203 with a &quot;C&quot; or better.</td>
<td>New: Applied Numerical Methods (3 units)</td>
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<td>OLD: Foreign Languages and Literatures (3 units)</td>
<td>NEW: World Languages and Literatures</td>
<td>Needs AAC approval</td>
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| LBA | PSY | 395 | Create new course | **Approved pending name change**  
**ADD**: Ethics in Behavior Analysis  
(1 unit)  
Ethical issues relevant to the practice of behavior analysis and the conduct of behavior analytic research with human participants.  
Prereq: PSY 101; PSY 240; PSY 205.  
Abbrev: Ethics in Behavior Analysis  
Offerings: Every Fall  
Transfer agreements: Change required  
Implementation: FL15 |
| --- | --- | --- | --- | --- |
| LBA | PSY | 443 | Create new course | **Approved**  
**ADD**: Research Methods in Behavior Analysis  
(3 units)  
Design, implementation, and evaluation of applied behavior analysis research.  
Prereq: PSY 101; PSY 240; PSY 205.  
Abbrev: Research Methods in ABA  
Offerings: Every Fall  
Transfer agreements: Changes required  
Implementation: FL15 |
| LBA | PSY | BA-PSY/Beh Analysis Specialization 5218 | Create new specialization | **Approved**  
**ADD**: Psychology (Behavioral Analysis Specialization), B.A.  
I. University Core Curriculum Requirements (36-45 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.

B. Mathematics (3-5 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)
Refer to the "Capstone" section of the Core Curriculum chapter in this catalog.

H. Diversity (3 units)
Refer to the "Diversity" section of the Core Curriculum chapter in this catalog.

II. Additional College Requirements (6-20 units)
Units may vary depending on initial course placement in foreign language coursework.

A. Foreign Language (0-14 units)
Successful completion of the foreign language requirement may be accomplished through one of five options: 1.) complete a fourth-semester college course in a foreign language; 2.) complete and transfer to UNR a fourth-semester course in American Sign Language; 3.) demonstrate proficiency through placement examination or other means through the Department of Foreign Languages and Literatures; 4.) show transcript evidence of successful completion of a fourth-year high school course in foreign language; or 5.) participate in a studies abroad program preapproved by the college to meet the foreign language requirement.

B. College Breadth Requirement (6 units)
Students seeking a Bachelor of Arts degree in the college shall be required to take, within the College of Liberal Arts, two courses that are outside the departments in which they major or minor, and that exclude courses taken to fulfill Core Curriculum requirements.

III. Major Requirements (40 units)
NOTE: Courses in the major may not be taken pass-fail. Students may enter the program at any time, but must have and then maintain a minimum 3.0 grade-point average in psychology. They must also hold a 2.75 overall GPA.

A. Introductory Requirements (6 units)
PSY 101 - General Psychology (3 units)
PSY 240 - Introduction to Research Methods (3 units)

B. Behavior Analysis Requirements (19 units)
   PSY 205 – Elementary Analysis of Behavior (3 units)
   PSY 395 – Ethics in Behavior (1 unit) On this agenda
   PSY 407 – Applied Behavior Analysis (3 units)
   PSY 443 – Research Methods in Applied Behavior Analysis (3 units)
   PSY 472 – Experimental Analysis of Behavior (3 units)
   PSY 473 – Radical Behaviorism (3 units)
   PSY 481 – Principles of Psychological Assessment (3 units)

C. Direct Learning (6 units)
   PSY 440 - Field Experience in Behavior Analysis (2 units)
   Four units from:
      PSY 275 – Undergraduate Research (1 – 3 units)
      PSY 375 – Advanced Undergraduate Research (1 - 3 units)
      PSY 439R – Field Experience in the Teaching of Psychology (2-3 units)
      PSY 475 – Honors Thesis (3 units)

D. Content Area Requirements* (9 units)
   Select one course (3 units each) in three of the four content areas below:

   Cognitive and Brain Science
      PSY 403 - Physiological Psychology (3 units)
      PSY 405 - Perception (3 units)
      PSY 416 - Cognitive Psychology (3 units)
      PSY 432 - Human Memory (3 units)

   Clinical
      PSY 441 - Abnormal Psychology (3 units)
      PSY 451 - Basic Principles of Psychotherapy (3 units)
      PSY 435 - Personality (3 units)

   Social/Life Span
      PSY 233 - Child Psychology (3 units)
      PSY 261 - Introduction to Social Psychology (3 units)
      PSY 442 - Psychology of Aging (3 units)

   Foundations and Capstones
      PSY 408 - History of Psychology (3 units)
      PSY 410 - Philosophical Criticisms of Psychological Research (3 units)
      PSY 419 - Conditioning and Learning (3 units)
      PSY 4XX--Capstone

Note(s):
   PSY 499 - Advanced Special Topics (1 to 3 units) (in related area) may be applied to a corresponding content area; academic advisor approval required.
At least 21 units in the major field must be upper-division.

**IV. Minor Requirements (18-21 units)**
The Psychology Department accepts any minor approved by the College of Liberal Arts.

**V. Electives (0-23 units)**

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

**VII. Recommended Schedule**
This is a possible sequence of courses. Please review this with an advisor to make sure you are making the best scheduling choices for yourself.

**A. First Year**

Fall Semester (16-18 units)
- Core Curriculum English (3 units) *
- Core Curriculum Math (3-5 units) *
- Foreign Language 111 (4 units)
- Core Curriculum Fine Arts (3 units)
- PSY 101 - General Psychology (3 units)

Spring Semester (16-18 units)
- ENG 102 - Composition II (3 units) *
- Core Curriculum Natural Science A (3-5 units)
- Foreign Language 112 (4 units)
- PSY 240 - Introduction to Research Methods (3 units)
- College Breadth Requirement (100-200 level) (3 units)

* English and Math course placement is based on test scores. Please consult the Core Curriculum chapter on this catalog.

**B. Second Year**

Fall Semester (16 units)
- CH 201 - Ancient and Medieval Cultures (3 units)
- Core Curriculum Natural Science (3 units)
- Foreign Language 211 (3 units)
- College Breadth Requirement (3 units)
- PSY 205 – Elementary Analysis of Behavior (3 units)
- PSY 395 – Ethics in Behavior (1 unit)

Spring Semester (15 units)
- CH 202 - The Modern World (3 units)
- Foreign Language 212 (3 units)
- PSY 407 – Applied Behavior Analysis (3 units)
- PSY 481 – Principles of Psychological Assessment (3 units)
- Minor (100-200 level) (3 units)

**C. Third Year**
### Fall Semester (15 units)
- CH 203 - American Experiences and Constitutional Change (3 units)
- PSY 440 – Field Experience in Behavior Analysis (2 units)
- PSY 443 – Research Methods in Applied Behavior Analysis (3 units)
- PSY Direct Learning (1 unit)
- Minor (3 units)
- Minor (300-400 level) (3 units)

### Spring Semester (15 units)
- PSY 472 – Experimental Analysis of Behavior (3 units)
- PSY 473 – Radical Behaviorism (3 units)
- PSY Direct Learning (3 units)
- Minor (300-400 level) (3 units)
- General Elective (3 units)

### D. Fourth Year

#### Fall Semester (15 units)
- PSY (Content Area Course) (3 units)
- Core Curriculum Capstone (3 units)
- Minor (300-400 level) (3 units)
- Core Curriculum Diversity (3 units)
- General Electives (3 units)

#### Spring Semester (12 units)
- PSY (Content Area Course) (6 units)
- Core Curriculum Capstone (3 units)
- Minor (300-400 level) (3 units)

Transfer agreements: Changes required
Implementation: FL15

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**ITEMS WITH GRAD COUNCIL APPROVAL – August 26, 2014 – No vote taken – did not have a quorum**

**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)
### PROPOSED CHANGES

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### INFORMATIONAL ITEMS

#### PROPOSED CHANGES

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ED  ED  EDSP 681/115550  Acknowledged
Add online approval  OK  NA

ED  ED  MA-CEP/2737 CLINICAL COUNSELING Reactivate specialization  Acknowledged
Counseling and Educational Psychology, M.A. (Clinical Mental Health Counseling Specialization)

I. Contact Information
Thomas Harrison, Ph.D., M.F.T., Graduate Program Director and Associate Dean
College of Education
tch@unr.edu
(775) 682-7318

II. Brief Introduction
The College of Education offers a Master of Arts degree in Counseling and Educational Psychology with a specialization in Clinical Mental Health Counseling made up of 64-66 credits. The overarching objective of the clinical counseling program is to provide students with an educational opportunity to develop as individuals and professionals toward the outcome of building relational, prevention, and intervention skills. The clinical counseling specialization builds student understanding and capacity to partner with other professionals in behavioral health systems, implement research-based interventions and programs, evaluate effectiveness, understand community resources, advocate for clients, and work with a multitude of diversity issues including poverty.

III. Program Objectives/Student Learning Outcomes
In keeping with the American Counseling Association definition of counseling, clinical counselors develop professional relationships that "empower diverse individual, families, and groups to accomplish mental health, wellness, education, and career goals". Clinical mental health counselors assist clients across the lifespan and across the continuum of care. The Clinical Counseling specialization prepares students to work in a wide range of settings, including colleges and universities, state and federal agencies, faith-based organizations, non-profits, and private clinics.

IV. Admission Requirements
Priority consideration will be given to Clinical Mental Health Counseling applicants who meet the requirements for graduate degree admission status listed below:
Meet the Graduate School admission requirements.
Complete the Graduate School application.
If invited, complete program processes, which may include group and individual interviews as well as an on-site writing assignment.
Applications are due to the Counseling program by October 1 for spring admission and February 15 for fall admission. In special circumstances, late applications may be considered. Consideration should be requested by the Clinical Mental Health Counseling coordinator and Graduate Director.

V. Program Requirements
In the M.A. graduate program in Clinical Mental Health Counseling, students take 33 units of required core courses that are common to all counseling students. The students also take 30 units of specialized studies in clinical mental health counseling that includes 12 units of internship in agencies.

### Counseling Courses
- EDRS 640 - Educational Measurements and Statistics (3 units)
- CEP 650 - Counseling Theory and Process (3 units)
- CEP 651 - Counseling Practicum (3 units)
- CEP 705 - Advanced Human Growth and Development (3 units)
- CEP 751 - Multicultural Counsel (3 units)
- CEP 761 - Group Counseling (3 units)
- CEP 780 - Law & Ethics in Counseling (3 units)
- EDRS 700 - Introduction to Educational Research (3 units)
- CEP 620 - Career Development and Information Technology (3 units)
- CEP 674 - Overview of Addiction Prevention, Treatment & Recovery (3 units)
- CEP 795R - Comprehensive Examination (1 to 3 units S/U Only)

### Clinical Counseling Courses
- CEP 790 - Seminar (2 to 4 units)
- CEP 658 - Prevention and Early Intervention Strategies (3 units)
- CEP 690 - Workshop CEP - Grief and Loss Counseling or Elective (1 unit)
- CEP 690 - Workshop CEP - Poverty, Stress, and Mental Health (2 units)
- CEP 665 - Child And Fam Guidance (3 units)
- CEP 770F - Inrnshtp-Priv Agencies (3 to 6 units)

### VI. Total Units (64-66 units)

### VII. Undergraduate Prerequisites
Students who apply to the M.A. specialization in Clinical Mental Health Counseling are not required to take any prerequisite classes prior to applying. However, often applicants will apply with some history of coursework in addictions, human development and family studies, and psychology. Although EDRS 640 - Educational Measurements and Statistics is required during their graduate studies in Clinical Mental Health Counseling, students may opt and sometimes do take the class as an undergraduate.

Transfer agreements: NA
Implementation: FL14

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Transfer agreements: NA
Implementation: FL14

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Transfer agreements: NA
Implementation: FL14
**Journalism Minor**

Students majoring in another field may minor in Journalism by completing the following courses:

### A. Required Courses

- JOUR 107 - All Things Media: Foundations (3 units)
- JOUR 108 - All Things Media: Design (3 units)
- JOUR 207 - All Things Media: Words and Numbers (3 units)
- JOUR 208 - All Things Media: Images and Sounds (3 units)
- JOUR 305 - Media Ethics (3 units)

Select one course from the following list (must be approved by a journalism advisor) (3 units)

- JOUR 300 - Visual Communication (3 units)
- JOUR 401 - First Amendment & Soc (3 units)
- JOUR 413 - History Of Journalism (3 units)
- JOUR 481 - Race, Gender and Media (3 units)
- JOUR 490A - Special Problems (1 to 3 units)
- JOUR 490B - Special Problems - Journalism Lab (1 to 3 units)
- JOUR 499 - Professional Internship (1 to 3 units S/U Only)

**Total Units (18 units)**

**Note(s):**

After the first four courses (JOUR 107, JOUR 207, JOUR 108, JOUR 208), students will work with their advisors to select appropriate electives from the above list. Freshmen and sophomores may not enroll in any 400-level courses.

To be accepted as a minor in journalism, a student must have completed JOUR 107, JOUR 207, JOUR 108, JOUR 208 with a C or better and with a combined GPA of 2.5 or higher having earned a C or better in each of the four courses. Once accepted as a minor, a student must maintain a minimum GPA of 2.5 in journalism to continue.

**JOURNALISM TEACHING** Students may prepare for a career as a high school journalism teacher by taking a combination of courses in journalism and education. This program is offered by the university's College of Education.

**ACCREDITATION** The Donald W. Reynolds School of Journalism is accredited by the Accrediting Council on Education in Journalism and Mass Communications. Accreditation was first granted in 1970.

Transfer agreements: NA
Implementation: FL14

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**OLD: African-American Experience in America**

Transfer agreements: NA
Implementation: FL14

**NEW: Introduction to African-American History I**

Transfer agreements: NA
Implementation: FL14
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Note(s):
1 Students who are preparing for secondary school teaching may substitute two of the three courses: MATH 373, MATH 474, MATH 475 for MATH 285 and MATH 311.
2 This elective may be any MATH or STAT course numbered 300-499, except MATH 352 and STAT 352. In addition, some other courses may count; contact the MATH/STAT Department for details.

Transfer agreements: No changes required
Implementation: FL14

**Acknowledged**

**VII. Recommended Schedule**

We assume a 21 unit minor. Students who opt to complete an 18 unit minor, must take 3 additional elective units.

**A. First Year**

Fall Semester (14 units)
- MATH 181 - Calculus I (4 units)
- ENG 101 - Composition I (3 units)
- CS 135 - Computer Science I (3 units)
Minor course (3 units)
SCI 110 - First Year Experience I: Science and Mathematics (1 unit)

Spring Semester (14 units)
MATH 182 - Calculus II (4 units)
ENG 102 - Composition II (3 units)
CS 202 - Computer Science II (3 units)
Minor course (3 units)
SCI 120 - First Year Experience II: Science and Mathematics (1 unit)

B. Second Year
Fall Semester (16 units)
MATH 283R - Calculus III (4 units)
MATH 285 - Differential Equations (3 units)
CH 201 - Ancient and Medieval Cultures (3 units)
Minor course (3 units)
Core Curriculum Social Science (3 units)

Spring Semester (15 units)
MATH 301 - Introduction to Proofs: Logic, Sets and Functions (3 units)
MATH 330 - Linear Algebra (3 units)
CH 202 - The Modern World (3 units)
Core Curriculum Diversity (3 units)
Minor course (3 units)
Core Curriculum Natural Science (3 units)

C. Third Year
Fall Semester (15 units)
MATH 310 - Introduction to Analysis I (3 units)
MATH 461 - Probability Theory (3 units)
Core Curriculum Natural Science (3 units)
CH 203 - American Experiences and Constitutional Change (3 units)
Minor Course (3 units)

Spring Semester (15 units)
MATH 311 - Intro To Analysis II (3 units)
STAT 467 - Statistical Theory (3 units)
MATH/STAT Elective (3 units) 1
Minor course (3 units)
Core Curriculum Fine Arts (3 units)

D. Fourth Year
Fall Semester (15 units)
MATH 420 - Mathematical Modeling (3 units)
MATH 466 - Numerical Methods I (3 units)
Core Curriculum General Capstone (3 units)
Minor course (3 units)
General Electives (3 units)
### Spring Semester (16 units)
- STAT 452 - Continuous Statistics (3 units)
- MATH/STAT Electives (6 credits)  
  1
- Minor course (3 units)
- General Electives (4 units)

Note(s):
1 This elective must be a course numbered 300 - 499, which is related to statistics, except MATH 352 or STAT 352. Some courses from outside the MATH/STAT Department may count. For a list of such courses, please consult a MATH/STAT advisor.

Transfer agreements: No changes required
Implementation: FL14

### PENDING ITEMS FROM PRIOR MEETINGS - NONE

### ITEMS APPROVED THROUGH CURRICULOG – The following were submitted through Curriculog since the last meeting.

#### PROPOSED CHANGES

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Grad Council Approval / Core Board | WB/WM | CCN
---|---|---
NA | NA | NA

### TRANSFER AGREEMENTS – 2014-2015 agreements are available online; requests for review were emailed to dept chairs a few weeks ago. Responses/corrections/changes are due by Sept. 17th. No response will be deemed approved.