Members in attendance: Elena Pravosudova, David Shintani, Ted Oleson for Kambiz Raffiee, Ivy Chin, Fred Holman, Anna Panorska, Kara Cleveland, Susan Harris, Donica Mensing, Jane Detweiler, Katherine McCall.
Ex-Officio members in attendance: Joe Cline, Steve Harris, Maureen Cronin, Brady Janes, Russell Stone, Janet Stake.
Guests: Stephanie DeBoor - NURS, Patsy Ruchala - NURS, Sandra Talley - NURS.

Approval of minutes: September 15, 2014 - Approved

IB Update – Maureen Cronin – Review of IB credit was at the request of Wooster High School. There are several documents posted on Sharepoint. Please have the departments review this information and send edits to Maureen.

Policy Statement on Undergraduate and Graduate Certificates – Joe Cline – Hold for next agenda

Curriculog Voting/Updates – Elena Pravosudova, Maureen Cronin, Elliott Parker – Elliott presented an updated version of Silver Core Verification with included department and college level approvals. For all proposals, he is recommending a standardization of the committees. Names could be submitted during the off contract time between terms, the committee is input and that committee does not change until the next term. One person should be listed as the agenda administrator for a committee - for departments, the chair or a designee, and for colleges, the dean/associate dean. These are the people whose approval pushes proposals to the next level. Other committee members can indicate their approval via comments, ‘yes’, ‘no’, and ‘hold’. This set up should eliminate most of the start/restarting of proposals that we have seen this term. Additionally, it was reiterated that the rejection of proposals by Core committees should be limited to extreme cases. Committee members at each level have the ability to edit proposals. So, with the approval of the submitter, minor changes can be made by a committee member to keep the proposal moving forward.
New workflows will be created in Curriculog for courses (new and changed) that are offered at the college level.

PROPOSED CHANGES IN DEGREES, MAJORS, AND COURSES

<table>
<thead>
<tr>
<th>COB</th>
<th>Dean’s Office</th>
<th>BUS 101 101692 Prereq change</th>
<th>Approved OLD PRE/COREQ</th>
<th>NEW PRE/COREQ</th>
</tr>
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<tbody>
<tr>
<td>EN</td>
<td>EBMC</td>
<td>BS-EE 4149 Program changes</td>
<td>Approved Electrical Engineering, B.S. in E.E.</td>
<td>I. University Core Curriculum Requirements (37-45 units)</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>NOTE: Refer to the Core Curriculum chapter of this catalog for information regarding the &quot;Core English and Math Completion Policy&quot;.</td>
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</tr>
</tbody>
</table>

Core Board: NA
WB/WM: NA
CCN: NA
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 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 I 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 Projects Laboratory (0 Units) (Units counted in Core Curriculum Capstone section above.)
- ENGR 490 - Fundamentals of Engineering Exam (0 units)

### D. Technical Electives (21 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)**
<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spring Semester (17 units)</strong></td>
<td>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)</td>
</tr>
<tr>
<td><strong>Fall Semester (16 units)</strong></td>
<td>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) *</td>
</tr>
<tr>
<td><strong>Spring Semester (16 units)</strong></td>
<td>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) *</td>
</tr>
<tr>
<td><strong>B. Second Year</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester (16 units)</strong></td>
<td>CEE 241 - Statics (3 units) * OR ME 241 - Statics (3 units) * ECON 102 – Principles of Microeconomics (3 units)</td>
</tr>
<tr>
<td></td>
<td>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) *</td>
</tr>
<tr>
<td><strong>Spring Semester (16 units)</strong></td>
<td>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) *</td>
</tr>
<tr>
<td><strong>C. Third Year</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester (16 units)</strong></td>
<td>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) *</td>
</tr>
<tr>
<td><strong>Spring Semester (16 units)</strong></td>
<td>CH 203 - American Experiences and Constitutional Change (3 units)</td>
</tr>
</tbody>
</table>
### 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

**Fall Semester (15 units)**
- EE 490 - Electrical Projects Laboratory (3 units)
- ENGR 490 - Fundamentals of Engineering Exam (0 units)
- ENGR 301 - Engineering Communication (3 units)
- Technical Electives (9 units)

**Spring Semester (16 units)**
- EE 491 - Engineering Design/Analysis (4 units)
- Technical Electives (12 units)

### 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)
- ENG 101 - Composition I (3 units)
- ENGR 100 - Introduction to Engineering Design (3 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)
### C. Third Year

#### 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)

#### 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)

### 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.
NOTE: EE 220L, EE 220, EE 221, CPE 201 and CPE 301 are offered every semester; EE 291, EE 320L, EE 320R, EE 362 and EE 490 are offered during the fall semester; EE 120, EE 330R, EE 340, EE 370L, EE 370R and EE 491 are offered during the spring semester.

Technical Electives

General Emphasis

Senior-year technical electives consist of 24 units. Three units must include an upper division course in biology, business, mathematics, chemistry or physics, computer science or mechanical engineering, or either CS 202 or ME/CEE 241, or 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 - Electrocoustics (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 24 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
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 introductory courses are BIOL 190, BIOL 191 and CHEM 220A.

The senior year technical electives consist of 46 units.

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 (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)
- 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)
- MICR 453 - Immunology (3 units)
- BIOL 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
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 (26 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 (86-87 units)

A. Additional Mathematics and Sciences (64-62 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)
PHYS 351 - Classical Mechanics (4 units)
PHYS 400 - Energy: Principles, Sources and Problems (0 units) (Units counted in Core Curriculum Capstone section above.)
PHYS 421R - Quantum Mechanics (3 units)
PHYS 422R - Applicat Quantum Mech (3 units)
PHYS 423 - Adv Physics Lab (2 units)
PHYS 425 - Therm & Stat Physics (3 units)
PHYS 461 - Modern Optics and Photonics (3 units)
PHYS 473 - Electricity and Magnetism (4 units)
**PHYS 497 – Senior Thesis (0 units) (Units counted in Core Curriculum Capstone section above)**
Physics electives (6 units)

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) (Units counted in Core Curriculum Capstone section above.)

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

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 (44 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)
- **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 (48 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 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)
- PHYS 473 - Electricity and Magnetism (4 units)

D. Fourth Year

Fall Semester (15 units)
- PHYS 400 - Energy: Principles, Sources and Problems (3 units)
- PHYS 422R - Applicat Quantum Mech (3 units)
- PHYS 423 - Adv Physics Lab (2 units)
- Core Curriculum Social Sciences (3 units)
- Science or technical electives (3 units)
- Physics elective (3 units)
- ENGR 301 – Engineering Communication (3 units)

Spring Semester (15 units)
- EE 491 - Engineering Design/Analysis (4 units)
- PHYS 497 – Senior Thesis (3 units)
- PHYS 461 - Modern Optics and Photonics (3 units)
- Core Curriculum Diversity (3 units)
- Physics elective (3 units)
- Science or Technical elective (3 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.

Transfer agreements: Changes required
Implementation: FL15

LBA | SRJS | SRJS 492
---|---|---
Create new course

**Approved pending department review of modified SLOs**

**ADD: Internship**
- (3 units)
  Supervised work and learning experience in non-profit, public, education, business, or government organizations. Includes required on-campus seminar.
  Prereq: Junior standing; COM, CRJ, or SOC major or minor with 12 credits; 3.0 GPA; instructor approval.

Abbrev: Internship
Offerings: Every Spring
Transfer agreements: No changes
Implementation: SP15

NA | NA | OK
<table>
<thead>
<tr>
<th>Code</th>
<th>Program</th>
<th>Course</th>
<th>Change Description</th>
<th>Approval Date</th>
</tr>
</thead>
</table>
| LBA   | PSY     | PSY 699  | Tabled; pulled from consent agenda  
Online approval only.  
Implementation: FL14 | NA            |
|       |         | 115276   |                                                                                   | OK            |
|       |         | 140      |                                                                                   | NA            |

**ITEMS PENDING GRAD COUNCIL**

**PROPOSED CHANGES**

<table>
<thead>
<tr>
<th>Code</th>
<th>Program</th>
<th>Course</th>
<th>Change Description</th>
<th>Approval Date</th>
</tr>
</thead>
</table>
| DHS   | NURS    | NURS 701 | Create new course  
**ADD:** Mental Health Assessment Across the Lifespan  
(3 units)  
Mental health knowledge, concepts, and techniques for the evaluation and diagnosis of psychiatric disorders across the lifespan.  
Abbrev: Mental Health Assessment  
Offerings: Every Fall  
Implementation: FL15 | 9/30/14        |
| DHS   | NURS    | NURS 702 | Create new course  
**ADD:** Advanced Pharmacology for Mental Health  
(3 units)  
Clinical and neurobiological basis for psychopharmacological treatment of psychiatric and behavioral problems.  
Prereq: NURS 701; NURS 716.  
Abbrev: Advanced Psychopharmacology  
Offerings: Every Summer  
Implementation: SU16 | 9/30/14        |
| DHS   | NURS    | NURS 703 | Create new course  
**ADD:** Advanced Mental Health Therapies: Individuals  
(3 units)  
Theoretical review of individual therapy models and their applications for Advanced Practice Psychiatric Nursing.  
Prereq: NURS 701.  
Abbrev: Adv MH Individual Therapy  
Offerings: Every Spring  
Implementation: SP16 | 9/30/14        |
| DHS   | NURS    | NURS 704 | Create new course  
**ADD:** Advanced Mental Health Therapies: Group and Family  
(3 units)  
Theoretical and practical strategies for family and group therapy treatments.  
Prereq: NURS 701; NURS 703.  
Abbrev: Adv MH Family & Group Therapy  
Offerings: Every Summer  
Implementation: SU16 | 9/30/14        |
| DHS | NURS | NURS 721 | Approved pending receipt of online approval form  
*ADD: Assessment and Diagnosis within PMH Settings*  
(3 units)  
Psychiatric clinical practicum emphasizing diagnostic evaluations, formulations, and initial treatment planning.  
Prereq: NURS 701; NURS 720. Coreq: NURS 726.  
Abbrev: Assess & Dx in PMH Settings  
Offerings: Every Spring  
Implementation: SP16 | 9/30/14 |
| DHS | NURS | NURS 722 | Approved pending receipt of online approval form  
*ADD: Interventions and Treatment Planning within PMH Settings*  
(3 units)  
Psychiatric clinical practicum emphasizing clinical interventions, evaluations, and long term treatment management strategies.  
Abbrev: Interv & RX in PMH Settings  
Offerings: Every Summer  
Implementation: SU16 | 9/30/14 |
| DHS | NURS | NURS 723 | Approved pending receipt of online approval form  
*ADD: Advanced Therapeutic Interventions within PMH Settings*  
(3 units)  
Advanced Clinical PMH practicum providing direct care to select populations across the life span.  
Prereq: NURS 701; NURS 721; NURS 723. Coreq: NURS 727.  
Abbrev: Adv Interv in PMH Settings  
Offerings: Every Fall  
Implementation: FL16 | 9/30/14 |
| DHS | NURS | NURS 724 | Approved pending receipt of online approval form  
*ADD: Advanced Management of Patient and Systems within PMH Settings*  
(3 units)  
Advanced Practice Psychiatric Nursing Leadership Roles in Systems delivering PMH care.  
Prereq: NURS 701; NURS 703; NURS 721; NURS 723. Coreq: NURS 724.  
Abbrev: Adv Mgt Pat & Sys PMH Setting  
Offerings: Every Spring  
Implementation: SP17 | 9/30/14 |
| DHS | NURS | NURS 726 | Approved pending receipt of online approval form  
*ADD: MH Diagnosis and Management of Children and Adolescents*  
(2 units)  
Advanced psychiatric nursing care of children and adolescents: including assessment, diagnosis, health promotion/management, and evaluation.  
Abbrev: MH Dx & Mgt of Child/Adoles  
Offerings: Every Spring  
Implementation:: SP16 | 9/30/14 |
| DHS | NURS | NURS 727 | Approved pending receipt of online approval form  
*ADD: Mental Health Diagnosis and Management of the Adult*  | 9/30/14 |
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<td><strong>ADD: Mental Health Diagnosis and Management of the Geriatric Client</strong></td>
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<td><strong>OLD: The Admin. &amp; Comm Coll</strong></td>
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<td>(3 units) Treatment is given to the unique nature of the curriculum of the community college and the justification of such offerings.</td>
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<td><strong>NEW: Academic Administration in Higher Education</strong></td>
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<td>(3 units) Study various academic administration positions at the university, including their role in personnel, tenure, and promotion, curriculum development &amp; accreditation, and external affairs.</td>
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<td>Abbrev: Academic Admin in Higher Ed Offerings: Every Fall Implementation: SP17</td>
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<td><strong>Approved ADD: Personnel Administration in Higher Education</strong></td>
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<td>(3 units) Complex issues of personnel administration in higher education, including how to recruit, hire, train, motivate, discipline, and terminate diverse faculty and staff.</td>
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<td>Abbrev: Personnel Admin in Higher Ed Offerings: Every Spring – Odd Years Implementation: SP15</td>
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<td><strong>Approved with the removal of SLO 6 ADD: Issues and Trends in College Student Development</strong></td>
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<td>(3 units) Complexities of current issues facing college student development and ways of dealing with these issues through use of theory and research.</td>
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<td>Abbrev:</td>
<td>Issues in College Student Dev</td>
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<td>Fiction Writing Workshop Offerings: Every Fall and Spring Implementation: FL15</td>
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<td>ENG 793 Create new course</td>
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ABBREVIATIONS

Social Justice Colloquium
Offerings: Every Spring
Implementation: SP15

Create new course

Approved
ADD: Internship in Social, Research, and Justice Fields
(3 units)
Professional work experience under collaborative supervision of faculty and personnel in non-profit, public, education, business, or government organizations. Written reports. Maximum of 6 units.
Prereq: Enrolled in graduate program; 12 graduate units; 3.0 GPA; instructor approval.

Abbrev: Intern Soc, Research, Justice
Offerings: Every Fall and Spring
Implementation: SP15

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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Abbrev: Intern Soc, Research, Justice
Offerings: Every Fall and Spring
Implementation: SP15

CURRICULOG ITEMS - These items were approved at this meeting or were approved through Curriculog since the last meeting.

PROPOSED CHANGES

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DHS     | SW      | ALL SW GRAD COURSES |         |
|         |         | Approved | Online approval only – SW 698 topic was removed from the request |
|         |         |         | Implementation: SP15 |
|         |         |          | NA | OK | NA |

DHS     | NURS    | MSN Create new specialization | 10/03/2014 |
|         |         | Approved | Psychiatric Mental Health Nurse Practitioner |
|         |         |          |          | NA | NA |
I. Contact Information
Sandra Talley
Office: (775) 682-7162
Fax: (775) 784 – 4262
Email: stalley@unr.edu

Deborah Arnow
Office: (775) 682-7133
Fax: (775) 784-4262
Email: darnow@unr.edu

II. Brief Introduction

The Psychiatric Mental Health Nurse Practitioner (PMHNP) specialization prepares advanced practice nurses to care for individuals and families with behavioral and mental problems. This specialty track within the MSN program prepares graduates to assess, diagnose, intervene (e.g., psychotherapy and pharmacotherapy), and provide follow-up to facilitate ongoing level of wellness. The PMHNP is prepared to provide psychiatric and mental health care in a variety of treatment setting (e.g., hospitals, jails, home care, and outpatient clinics) and participate with other members of the health care team. With a shortage of mental health professionals and increasing demand for expert mental health care in rural health settings, the PMHNPs scope of practice brings critically relevant skills needed to care for persons experiencing the full range of psychiatric and mental health problems.

III. Program Objectives/Student Learning Outcomes

1. Integrates scientific findings from nursing, biopsychosocial fields, genetics, public health, quality improvement, and organizational sciences for the continual improvement of nursing care across diverse settings.

2. Provide advanced, ethical, evidence-based nursing services for multicultural and ethnic individuals, families, aggregates, and select populations.

3. Apply patient-care and communication technologies to deliver, enhance, integrate, and coordinate care.

4. Collaborate with other professionals and members of the community to provide optimal health care to individuals, families, special populations, and communities with an emphasis on health promotion and disease prevention.

5. Respect diversity and address complex health care needs of persons,
including the unserved and under-served populations and communities, in the role of nurse leader, educator and/or advanced practice nurse.

6. Participate in the ethical organization, management, and policy negotiations of health care delivery systems to use advocacy strategies to influence health and healthcare.

7. Participate in the application of safe patient care and quality healthcare practices.

8. Participate in the development of nursing as a science, through the use of theory, research, and scientific processes while acquiring a foundation for doctoral study.

IV. Admission Requirements

This is a two-step process, wherein the applicant must first meet the university’s Graduate School requirements as well as the Orvis School of Nursing MSN requirements. Both schools must receive all application materials on or before March 1 for consideration for the fall semester.

- Have an overall undergraduate grade-point average of at least 3.0.
- Complete a baccalaureate degree with an upper-division major in nursing from an NLNAC or CCN accredited nursing school. The baccalaureate degree curriculum must include the following specific course work:
  - Statistics
  - Growth and development (must cover lifespan)
  - Basic research
  - Health assessment
- Have verification of current licensure to practice as a registered nurse in the United States. Students must be eligible to practice as a registered nurse in Nevada.
- Submit a statement of intent including graduate-study goals.
- Provide three letters of reference to the graduate program director using the form on the OSN website.
- Successful completion of a graduate level applied statistics course prior to fall admission.
- Submit scores for the Graduate Record Exam (GRE). (Optional, required for those students applying for the MSN/MPH program of study).

An interview may be required.

The total of required units for completing the degree varies according to the option the student selects. The minimum number of required units for completion of the MSN is 35. With graduate advisor approval, MSN students may apply more than 3 S/U units to the 35 units required.
Applicants who plan to apply graduate-level credit earned at another university to the University of Nevada, Reno may be able to satisfy specific course requirements in the nursing program. Applicants must provide specific course information for review to determine if the transferred courses are equivalent to university requirements. If approved, such courses may be included in the official program of study.

V. Program Requirements

NURS 701 – Mental Health Assessment Across the Lifespan (2 units)
NURS 702 – Advanced Pharmacology for Mental Health (3 units)
NURS 703 – Advanced Mental Health Therapies: Individual (3 units)
NURS 704 – Advanced Mental Health Therapies: Group and Family (3 units)
NURS 716 – Advanced Ambulatory Pharmacy (1 to 3 units)
NURS 717 – Advance Pathophysiology (3 units)
NURS 721 – Assessment and Diagnosis within PMH Settings (3 units)
NURS 722 – Interventions & Treatment Planning within PMH Settings (3 units)
NURS 723 – Advanced Therapeutic Interventions within PMH Settings (3 units)
NURS 724 – Advanced Management of Patient & Systems within PMH Settings (3 units)
NURS 726 – MH Diagnosis & Management of Children & Adolescents (2 units)
NURS 727 – Mental Health Diagnosis and Management of the Adult (2 units)
NURS 730 – Mental Health Diagnosis & Management of the Geriatric Client (2 units)
NURS 735 – Intro to Knowledge Development and Scientific Inquiry (3 units)
NURS 736 – Health Care Policy and Social Justice (3 units)
NURS 737 – Populations and Aggregate Health Issues (3 units)
NURS 750 – Advanced Health Assessment (3 units)
NURS 795 – Comprehensive Examination (1 unit)
NURS 798 – Research Project (1 to 3 units) OR
NURS 797 – Thesis (1 to 6 units)

VI. Program Total Hours 52-54 units

Implementation: FL15

Approved SLOs: Student Learning Outcomes (if available):
Upon completion of this course:
1. Students will be able to be familiar with cultural topics introduced which will address
landscapes, leisure, popular music, sports, television, and arts, school systems, weather, economy, banking, business administration, commerce, services, means of transportation, popular beliefs.

2. Students will be able to learn to recognize and apply the subjunctive mood (present, past and future).

3. Students will be able to familiarize themselves with the uses of indirect discourse and relative pronouns.

4. Students will be able to know how to communicate in several situations, expressing desires, doubts, feelings, preferences, opinions, indifference, discredit, indecision and trust.

5. Students will be able to formulate hypotheses using the right form of verbs and sentence structure.

6. Students will be able to write materials for a portfolio based on materials found on newspapers, magazines, internet, or television.

NEW: Student Learning Outcomes (if available):
Upon completion of this course:

1. Students will be able to explain and apply cultural topics which will address landscapes, leisure, popular music, sports, television, and arts, school systems, weather, economy, banking, business administration, commerce, services, means of transportation, and popular beliefs.

2. Students will be able to recognize and apply the subjunctive mood (present, past and future).

3. Students will be able to use indirect discourse and relative pronouns.

4. Students will be able to communicate in several situations, expressing desires, doubts, feelings, preferences, opinions, indifference, discredit, indecision and trust.

5. Students will be able to formulate hypotheses using the right form of verbs and sentence structure.

Transfer agreements: No changes
Implementation: FL14