2015-2016 SHORT SIGNATURE SHEET

Date: March 22, 2016
Subject: Clarify Degree Elective Requirements
Originating Department: Civil and Environmental Engineering

TYPE OF PROPOSAL: UNDERGRADUATE X GRADUATE UNDERGRADUATE & GRADUATE
(Separate proposals sent to UCCC and Grad. Council)

<table>
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<th>DATE FORWARDED</th>
<th>COMMENTS: APPROVED, APPROVED WITH REVISIONS, ETC.</th>
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<td>William Saunders</td>
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<td>John Daniels</td>
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<td>Mehdi S. Miri</td>
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Revised 05/06/14
OAA/mjw
*To: Undergraduate Course and Curriculum Committee Chair

From: Civil and Environmental Engineering

Date: March 22, 2016

Re: Clarify CEGR Design Elective Requirements

The Short Form is used for minor curriculum changes. Minor changes may include:

**Undergraduate:** Minor changes include new undergraduate courses, course numbering (note: must follow Course Numbering Policy), change in pre-requisites, editorial changes to course description, and/or minor program changes

**Graduate:** Minor changes include course numbering (note: must follow Course Numbering Policy), change in pre-requisites, editorial changes to course description, and/or minor program changes

Submission of this Short Form indicates review and assessment of the proposed curriculum changes at the department and collegiate level either separately or as part of ongoing assessment efforts.

*Proposals for undergraduate courses should be sent to the Undergraduate Course and Curriculum Committee Chair. Proposals related to both undergraduate and graduate courses,
SUMMARY: The Department of Civil and Environmental Engineering would like to clarify our CEGR Design Elective Requirements.

FOR CONSULTATION WITH OTHER DEPARTMENTS:
1. Does the proposed change affect other departments (including additions and/or changes to degree requirements or prerequisites offered in other departments)?
   _______ Yes  ____X____ No

2. If Yes, please list the other departments affected by the proposed change:

3. Have you consulted with each department listed in item 2 regarding the proposed change?
   _______ Yes  _______ No

Result(s) of Consultation(s) (please attach documentation):

4. For a new course or for major modification of an existing course, include Consultation on Library Holdings.

5. For proposals involving Honors courses or programs, include written consultation with the Honors Council.

RESOURCES:
1. For a new course or revisions to an existing course, check all the statements that apply:
   _______ This course will be cross listed with another course.
   _______ There are prerequisites for this course.
   _______ There are co-requisites for this course.
   _______ This course is repeatable for credit.
   _______ This course will affect the number of credits hours for its program.
   _______ This proposal results in the deletion of an existing course(s) from the degree program and/or catalog.
   _______ This proposal will alter an agreement with a North Carolina community college.

   For all items checked above, applicable statements and content must be reflected in the proposed catalog copy.

2. There are no additional resources needed. None.
CREDIT HOUR (Mandatory if new and/or revised course in proposal):
Review statement and check box once completed.
☐ The appropriate faculty committee has reviewed the course outline/syllabus and has
determined that the assignments are sufficient to meet the University definition of a credit
hour.

PROPOSED CATALOG COPY: DEGREE REQUIREMENTS WITH TRACKING

Bachelor of Science in Civil Engineering (B.S.C.E.)

A Major in Civil Engineering leading to the Bachelor of Science in Civil Engineering (B.S.C.E.) degree consists of 128
credit hours.

Degree Requirements

General Education Courses
Social science and humanities electives must be chosen both to satisfy University General Education requirements
and to meet the objectives of a broad education consistent with the educational goals of the profession. To avoid
taking "extra" humanities/social science electives, students must select their electives carefully after consulting with
their faculty advisor. The science electives must be chosen from an approved list of physical, life, or earth sciences
and must complement the student's overall educational plan.

General Education Requirements (21)

UWRT 1101 English I (3) (Prerequisite for entry into major with a grade of C or above)
UWRT 1102 English II (3) (Prerequisite for entry into major with a grade of C or above)
LBST 110X (3)
LBST 2101 Western Culture and Historical Awareness (3)
LBST 2102 Global and Inter cultural Connections (3)
LBST 22XX (3)
Social Science Elective (3) (select from an approved list of courses)

Mathematics and Science Courses (33)

MATH 1241 Calculus I (3) (with a grade of C or above)
MATH 1242 Calculus II (3) (with a grade of C or above)
MATH 2241 Calculus III (3) (with a grade of C or above)
MATH 2171 Differential Equations (3) (with a grade of C or above)
STAT 3128 Probability and Statistics for Engineers (3)
PHYS 2101 Physics for Science and Engineering I (3) (with a grade of C or above)
PHYS 2101L Physics for Science and Engineering I Lab (1) (with a grade of C or above)
PHYS 2102 Physics for Science and Engineering II (3)
PHYS 2102L Physics for Science and Engineering II Lab (1)
CHEM 1251 General Chemistry I (3) (with a grade of C or above)
CHEM 1251L General Chemistry I Lab (1) (with a grade of C or above)
Science Elective (3) (select from approved Biology and Earth Science courses)
Math/Science (3) (Choose one course from the Biology, Earth Science, Mathematics, Chemistry or Physics area)

Major Courses (50 hours)

ENGR 1201 Introduction to Engineering Practices and Principles I (2) (with a grade of C or above)
ENGR 1202 Introduction to Engineering Practices and Principles II (2) (with a grade of C or above)
CEGR 2101 Civil Engineering Drawing (2)
CEGR 2102 Engineering Economic Analysis (3) (with a grade of C or above)

Revised 05/06/14
OAA/njw
CEGR 2104 Surveying and Site Design (3) (with a grade of C or above)
CEGR 2154 Design Project Lab (2) (O) (with a grade of C or above)
CEGR 3111 Construction Engineering (3) (with a grade of C or above)
CEGR 3122 Structural Analysis (3) (with a grade of C or above)
CEGR 3141 Introduction to Environmental Engineering (3) (with a grade of C or above)
CEGR 3143 Hydraulics and Hydrology (3) (with a grade of C or above)
CEGR 3153 Transportation Lab (2) (W)
CEGR 3155 Environmental Lab (2) (W)
CEGR 3161 Transportation Engineering I (3) (with a grade of C or above)
CEGR 3201 Systems and Design (3) (with a grade of C or above)
CEGR 3255 Structural Materials Lab (2) (W) (with a grade of C or above)
CEGR 3256 Geotechnical Lab (2) (W)
CEGR 3278 Geotechnical Engineering (3) (with a grade of C or above)
ENGR 3295 Multidisciplinary Professional Development (1)
MEGR 2141 Engineering Mechanics I (3) (with a grade of C or above)
MEGR 2144 Introduction to Solid Mechanics (3) (with a grade of C or above)

Required Electives (24 hours)

**Civil Engineering Design Electives (6) (select two)** (select a total of two courses from different options) (with grades of C or above)

Option 1 - CEGR 3221 Structural Steel Design I (3) or CEGR 3225 Reinforced Concrete Design I (3)
Option 2 - CEGR 4185 Geometric Design of Highways (3)
Option 3 - CEGR 4278 Geotechnical Engineering II (3)
Option 4 - CEGR 4142 Water Treatment Engineering (3), CEGR 4242 Wastewater Treatment Design (3), CEGR 4147 Stormwater Management (3) or CEGR 4264 Landfill Design and Site Remediation (3)

A list of approved courses is available on the department website.

**Mechanical/Electrical Engineering Electives (6) (select two)**

ECGR 2161 Basic Electrical Engineering I (3)
MEGR 3111 Thermodynamics I (3)
MEGR 3121 Dynamics Systems I (3)

**Civil Engineering Restricted Elective (3) (select one)**

CEGR 3221 Structural Steel Design I (3)
CEGR 3225 Reinforced Concrete Design I (3)

**Civil Engineering Electives (6) (select two)**

CEGR 3xxx (3) or CEGR 4xxx (3)

**Technical Elective (3) (select one)**

The technical elective may be selected from the areas of engineering, mathematics, science, business, and communications. An approved list of upper division courses is available on the department website.

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LBST 2102 Global and Inter cultural Connections (3)
LBST 22XX (3)
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Mathematics and Science Courses (33)
MATH 1241 Calculus I (3) (with a grade of C or above)
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CEGR 2102 Engineering Economic Analysis (3) (with a grade of C or above)
CEGR 2104 Surveying and Site Design (3) (with a grade of C or above)
CEGR 2154 Design Project Lab (2) (O) (with a grade of C or above)
CEGR 3111 Construction Engineering (3) (with a grade of C or above)
CEGR 3122 Structural Analysis (3) (with a grade of C or above)
CEGR 3141 Introduction to Environmental Engineering (3) (with a grade of C or above)
CEGR 3143 Hydraulics and Hydrology (3) (with a grade of C or above)
CEGR 3153 Transportation Lab (2) (W)
CEGR 3155 Environmental Lab (2) (W)
CEGR 3161 Transportation Engineering I (3) (with a grade of C or above)
CEGR 3201 Systems and Design (3) (with a grade of C or above)
CEGR 3255 Structural Materials I Lab (2) (W) (with a grade of C or above)
CEGR 3258 Geotechnical Lab (2) (W)
CEGR 3278 Geotechnical Engineering (3) (with a grade of C or above)
ENGR 3295 Multidisciplinary Professional Development (1)
MEGR 2141 Engineering Mechanics I (3) (with a grade of C or above)
MEGR 2144 Introduction to Solid Mechanics (3) (with a grade of C or above)

Required Electives (24 hours)
Civil Engineering Design Electives (6) (select two) (with grades of C or above)

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**Civil Engineering Restricted Elective (3) (select one)**

- CEGR 3221 Structural Steel Design I (3)
- CEGR 3225 Reinforced Concrete Design I (3)

**Civil Engineering Electives (6) (select two)**

- CEGR 3xxx (3) or CEGR 4xxx (3)

**Technical Elective (3) (select one)**

The technical elective may be selected from the areas of engineering, mathematics, science, business, and communications. An approved list of upper division courses is available on the department website.

**Academic Plan of Study (Undergraduate only):** Does the proposed change impact an existing Academic Plan of Study?

- [ ] Yes. If yes, please provide updated Academic Plan of Study in template format.
- [ ] No.

**Suggested Plan of Study**

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<th>Course Number</th>
<th>Course Title</th>
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<th>Spring Semester</th>
<th>Freshman Year</th>
<th>Sophomore Year</th>
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<td>UWRT 1101</td>
<td>Writing and Inquiry in Academic Contexts I</td>
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<td>LNS 110X</td>
<td>LNS 110X series: Arts &amp; Society</td>
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<td>Western Cultural and Historical Awareness</td>
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**Spring Semester**

- MATH 2241
- PHYS 2102
- CEGR 2102
- CEGR 2104
- CEGR 2154
- CHEM 1251
- CHIM 1251L
- MEGR 2144

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### Junior Year

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<td>CEGR 3141</td>
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<td>CEGR 3278</td>
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<td>CEGR 3258</td>
<td>Geotechnical Engineering Lab</td>
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<td>CEGR 3122</td>
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<td>Requires a grade of &quot;C&quot; or better</td>
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<td>CEGR 3161</td>
<td>Transportation Engineering I</td>
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<td>CEGR 3153</td>
<td>Transportation Engineering Lab</td>
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<td>Choose from: MGR 3121, 3111, or EGR 2161</td>
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<td>CEGR 3111</td>
<td>Construction Engineering</td>
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<td>Requires a grade of &quot;C&quot; or better</td>
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<td>CEGR Design Elective</td>
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<td>Choose one course from one option: Option 1: CEGR 4412, 4424, 4419, or 4264 Option 2: CEGR 4478 Option 3: CEGR 3221 or 3225 Option 4: CEGR 4456, 4461, 4612, or 4262 A List of approved courses is available on the department website. Requires a grade of &quot;C&quot; or better</td>
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### Senior Year

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<tr>
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<th>Course Title</th>
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<tr>
<td>SCUL 3228</td>
<td>Probability &amp; Statistics for Engineers</td>
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<td>Choose from CEGR 3271 or CEGR 3275</td>
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<td>CEGR XXXX</td>
<td>CEGR Elective</td>
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<td>Choose one course from a different option select in the earlier Design Elective Option 1: CEGR 4142, 4242, 4147, or 4264 Option 2: CEGR 4278 Option 3: CEGR 3221 or 3225 Option 4: CEGR 4165, 4161, 4162, or 4262 A List of approved courses is available on the department website. Requires a grade of &quot;C&quot; or better</td>
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<td>ENGR 3295</td>
<td>Professional Development</td>
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<td>Choose one course from a different option select in the earlier Design Elective Option 1: CEGR 4142, 4242, 4147, or 4264 Option 2: CEGR 4278 Option 3: CEGR 3221 or 3225 Option 4: CEGR 4165, 4161, 4162, or 4262 A List of approved courses is available on the department website. Requires a grade of &quot;C&quot; or better</td>
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<td>LIDT 2101</td>
<td>Global and Intercultural Connections</td>
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<tr>
<td>CEGR XXXX</td>
<td>CEGR Design Elective</td>
<td>3</td>
<td></td>
<td></td>
<td>Choose one course from a different option select in the earlier Design Elective Option 1: CEGR 4142, 4242, 4147, or 4264 Option 2: CEGR 4278 Option 3: CEGR 3221 or 3225 Option 4: CEGR 4165, 4161, 4162, or 4262 A List of approved courses is available on the department website. Requires a grade of &quot;C&quot; or better</td>
</tr>
</tbody>
</table>

### Student Learning Outcomes (Undergraduate & Graduate):

Does this course or curricular change require a change in SLOs or assessment for the degree program?

- [ ] Yes. If yes, please provide updated SLOs in template format.
- [x] No.

### Textbook Costs:

It is the policy of the Board of Governors to reduce textbook costs for students whenever possible. Have electronic textbooks, textbook rentals, or the buyback program been considered and adopted?

- [x] Yes. Briefly explain below.
- [ ] No. Briefly explain below.

The Department strives to have our course textbooks selected and reported within the time frame set by the University to support the buyback program. We also use e-books provided by the library.

Revised 05/06/14
OAA/mjw
IMPORTANT NOTE: A Microsoft Word version of the final course and curriculum proposal should be sent to facultygovernance@uncc.edu upon approval by the Undergraduate Course and Curriculum Committee and/or Graduate Council chair.