Advising Notes – **Civil Engineering (CE) Curricula**

1. **Civil Engineering Project (CE 450)**
   
a. CE 450 (Civil Engineering Senior Design) replaces CE 400, CE 440, and CE 480 effective Spg.16.

   b. In the first offering of CE 450 (i.e. for Sp 2016) we will be allowing students to enroll in the course if they meet the requisites for CE 400, CE 440, or CE 480. After Spring 2016 all requisites for CE 450 must be met.

   c. It is very important that students are aware of the requisite changes for CE 450.
      
      i. At least two 4xx courses from different disciplines of the following:
         
         Water Resources  | CE 488<sup>Fall</sup>  | CE 484<sup>Fall</sup>
         Geotechnical  | CE 435<sup>alt Spg</sup>  | CE 443<sup>alt Spg</sup>  | CE 444<sup>alt Fall</sup> (starting Fall 16)
         Transportation  | CE 401<sup>Fall</sup>  | CE 402<sup>Fall</sup>  | CE 403<sup>Spg</sup>

      ii. CE 390 is a **prerequisite** for CE 450

   d. Students entering their 2<sup>nd</sup> semester Junior year on or before Fall 15 should be able to complete all requirements for CE 450 by Fall 16.

   e. Students entering their 1<sup>st</sup> semester Senior year on Fall 15 will be able to meet CE 450 requirements if they have previously taken CE 305, CE 383, and/or CE 435 or CE 443. These students will have the minimum requirements to sign up for at least two of the CE 4xx courses listed in the table above.

   f. In addition to the existing CE concentrations (Geotech, Transportation and Water Resources) culminating in the multidisciplinary Civil Engineering Project (CE 450), a new **Sustainable Urban Infrastructure concentration** is added. Refer to the advising worksheet for the list of required/recommended courses the meet the conditions of our current curriculum.

2. **Changes to CE 420 – Structural Engineering Project**
   
a. CE 425 is no longer offered, and has been removed as a co-requisite for CE 420. CE 390 remains as a co-requisite for CE 420, and the new pre-requisites are a ‘C or better’ in each of the following: CE 325, CE 327 and CE 426. An updated list of required/recommended Engineering Electives have been identified in the Structures concentration advising worksheet.

3. The preferred computing course is now **CSC 111 Into to Computing: PYTHON** that was specifically developed for CCEE students. CSC 112, 114, and 116 (Fortran, C++ and Java) are acceptable alternatives, but MA 116 and CSC 113 (both are MATLAB) are not approved as a CSC elective for students in CCEE. CSC 113 is currently restricted to MAE majors.
Advising Notes – Civil Engineering (CE) Curricula

4. Effective starting in Spring 2016 – **CE 382 will require a C- or better in CE 214.** While not technically enforced for registration in Fall 2015, students should be aware that this change was made to ensure sufficient competency in CE 214 content. Students that earn below a C- in CE 214 are advised to take CE 214 again before enrolling in CE 382.

5. **TDE 220 Civil Engineering Graphics** (AutoCad), specifically developed for students in this department, is the preferred Graphics course for CE (and CON-G) majors. As of Fall, 2012, students cannot receive credit for both GC 120 and TDE 220. GC 120 is still an accepted alternate, but that is primarily to avoid burdening a transfer student. Both TDE 220 and GC 120 can be used as a pre-req for GC 250 for students pursuing a Graphics minor. TDE 220 cannot be used as a humanities elective. GC 496 was the old (temporary) number for TDE 220.

6. **Construction Engineering Courses in the CE curricula:**
   
   a. **CE 263** has replaced **CE 463** as a Technical Elective in the Sum 1, 03 and Sum 2, 09 curricula, and both a general (Introductory Area) and concentration (CE) elective in the Sum 2, 10 and later curricula. **CE 463** (Planning, Estimating and Scheduling) is offered on a space available basis (CON have priority). CE students who wish to take CE 463 **must** take the new CE 263 (CE 297). **CE 263 will be offered both Spring and Fall semesters.**

   b. **CE 464** (Legal Aspects of Contracting) **CANNOT** be used for the CE/MA/SCI or any other CE elective. This course is required in CON (ABET; different Program Criteria than CE) but does not have any CE or ENE ABET engineering or science content.

   c. **CE 301** (Surveying) is a Technical Elective in the Sum 1, 03 and Sum 2, 09 curricula, and a concentration elective (“Other”) in the Sum 2, 10 and later curricula, providing 1 of the 3 required Lab experiences in the Sum 2, 10 curriculum. Priority to CNE students will no longer be strictly enforced.

   [Note: CE Students interested in construction courses. CE 463 or CE 466 will be priority to CON; CE students will be allowed to waitlist and fill remaining seats after registration ends.]

7. Non-matriculated students cannot enroll in CE 3xx or higher courses except under unusual circumstances; all non-matriculated enrollments in these courses must be approved by the Coordinator of Advising.

8. Students should take math and science courses in the sequence and semester shown in the curricula sheets to avoid class conflicts.

9. Students may choose from the following courses to satisfy the Basic Science Elective: MEA 101; BIO 181 or BIO 183; MEA 200; SSC 200; FOR 260; FOR/BIO/FW 221.

   [Note 1: Students on the Sum 1, ’03 [036] or Sum 2, ’09 [097] curricula need 4-hours of Basic Science and should take the associated lab section (MEA 110, MEA 210, SSC 201).]

   [Note 2: Students on the Sum 2, ’10 [107] curriculum need 3-hours of Basic Science; they may take the associated lab sections if desired, but these are not required. Students in the Sum2, ’10 curriculum have an additional CE/MA/SCI (3-hr) requirement that can be satisfied with any CE course not otherwise used for graduation, any MA 3xx, CH 201, PY 328, any of the Basic Science Elective courses not already taken or any combination of these that result in 3-credit hours (letter graded).]