

Advising Notes – **Civil Engineering (CE) Curricula****1. Civil Engineering Project (CE 450)**

- a. CE 450 (Civil Engineering Senior Design) replaces the old CE 400, CE 440, and CE 480. CE 400, CE 440, and CE 480 are no longer offered as senior design options.

- b. It is very important that students are aware of the prerequisites for CE 450.
i. At least two CE 4xx courses from different disciplines of the following:

Water Resources	CE 488 ^{Fall}	CE 484 ^{Fall}	
Geotechnical	CE 435 ^{alt Spg}	CE 443 ^{alt Spg}	CE 444 ^{alt Fall} (starting Fall 16)
Transportation	CE 401 ^{Fall}	CE 402 ^{Fall}	CE 403 ^{Spg}

- ii. CE 390 (or CE 297 – Intro to Sustainable Infrastructure) is a **prerequisite** for CE 450

- c. 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 that 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 (or CE 297 – Intro to Sustainable Infrastructure) 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 **CSC 111 Intro 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.
4. **CE 382 requires a C- or better in CE 214.**
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.

Advising Notes – **Civil Engineering (CE) Curricula****6. Construction Engineering Courses in the CE curricula:**

- a. **CE 263 Intro to Construction Engineering** in the Sum2 '10 curriculum is a **CE Area Intro Course** only. It was incorrectly included as a (Construction) Engineering Elective in the CE Worksheet. If at all possible students should count CE263 as a CE Area Intro course in their degree audit.
- b. **CE 463 Construction Estimating, Planning and Control** is removed from the list of Construction Engineering Electives in the CE Worksheet since the course pre-reqs *do not* allow CE students to enroll in the course.
- c. 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.
- d. 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 CON students will no longer be strictly enforced.

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

7. **CE437 Civil Engineering Computing** is removed from the list of Area Intro Courses in the CE Worksheet since the course content is not consistent with an intro level course. Further, it was not listed in the approved list of area intro courses in the official curriculum.
8. 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.
9. Students should take math and science courses in the sequence and semester shown in the curricula sheets to avoid class conflicts.
10. 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).]