

## Advising Notes – **Construction Engineering (CON) - Mechanical Concentration**

*Note: If you have an advisee that is a CON, Mechanical Construction Concentration, and you are not a CON faculty member, you should have the student see the COA office since many of the design courses are in MAE and most CCEE faculty are not familiar with the sequence or content of these courses.*

1. Construction Engineering and Management (CEM) is now referred to as Construction Engineering (CON).
2. The CON curriculum changed recently, including some changes in course sequence. The Smr2, '13 curriculum sheets (available on the CE website and in Mann 203), developed to conform to changes in matriculation requirements, and reflects the new course requirements and sequence. Students are encouraged to use the new curriculum for planning purposes even if they remain on an old curriculum.
  - a. CE 263 will be open to all students in the CCEE department and will provide an introduction to Planning and Scheduling, Estimating, Contracts, Construction Methods, and Construction Equipment. CE 263 introduces many of the Construction topics on the FE exam. CE 263 will be a “hard” pre-req for CE 463, CE 464, and CE 465. CE 263 is offered in the Fall and Spring semesters.
  - b. If students took CE 261 (no longer offered), they must take CE 325, but do not take CE 390 and MA 302.
  - c. If students take CE 263/297 (old CE 263), they must take CE 390 (or new CE 297) and MA 302 (1-credit hour each) to satisfy ABET requirements in Math and Engineering Economy content. CE 325 will be one of the CE Electives (along with CE 305, CE 367, and CE 383).
  - d. CE 463 now has prerequisites of CE 263 and CE 365. The schedule works in such a way that these courses can be completed in sequence.
  - e. **CE 464 now only has CE 365 listed as a co-requisite.** While based on the content requirements for CE 464, this change has the added benefit of allowing students that enter the CON program in the spring of their sophomore year the ability to graduate in 5 semesters.

### 3. CON Course Scheduling

- a. CON courses are only offered once a year.

<b>Fall Courses:</b>		CE 463	CE 466
<b>Spring Courses:</b>	CE 365	CE 367	CE 464

- b. CE 469 is offered in the Spring only.

4. **CE 382 requires a C- or better in CE 214.**

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5. ACC 200 is a better choice for the management elective. MIE 330 (replaced BUS 330) is difficult to get into and (now) has an MIE pre-req. If a student is a BUS or MIE minor they will likely take both.
6. The recommended Math and Science Elective (4-credit hours) is MEA 101 & MEA 110. The following courses satisfy the Math and Science Elective: MEA 101/MEA 110; MA 341 (+ 1-hr.); BIO 181 or BIO 183; MEA 200/MEA 210; SSC 200/SSC 201; FOR 260 (+ 1-hr.) or FOR/BIO/FW 221 (+ 1-hr.).
7. **Common to all CCEE Programs:**
  - a. 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
  - b. The preferred computing course is **PYTHON. It is listed as CSC 111.** CSC 112, 114, and 116 (Fortran, C++ and Java) are also acceptable 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; CSC 113 CANNOT be used to satisfy the CONm computing requirement
  - c. TDE 220 (Civil Engineering Graphics; AutoCad), was developed for students in CCEE and is the preferred Graphics course for CON 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 transfers students. 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.