

Geotechnical:

The important advising information for students interested in Geotechnical is to begin taking the prerequisites for the capstone early enough:

Students graduating in December must, at the latest, take this sequence:

Spring: CE 342

Fall: ***CE 440*** (Fall only)

Students graduating in May must, at the latest, take this sequence:

Spring: CE 342

Fall: ***CE 440*** (Fall only)

So, for students in Geotech to graduate in May, they must take *CE 342* no later than the previous spring.

Design Electives: CE 443 (Spring, even years, 2012, 2014) is strongly recommended.

The remaining Design Elective is the student's choice; CE 413 is encouraged.

Engineering Science Electives: CE 435 (taught in Spring of odd years, 2011, 2013) is strongly recommended;

Other good options for the second Engr Sci Elect are CE 325, CE 337 or CE 339.

The remaining Engr Sci Elect must be either MAE 301 or ECE 331.

The recommended Basic Science Elective is MEA 101/110. The recommended 1 cr.hr. lab course is CE 381.

Structures:

The important advising information for students interested in Structures is to *begin taking the prerequisites for the capstone early enough:*

Students graduating in December must, at the latest, take this sequence:

Spring: CE 325, CE 327, CE 390, CE 426

Fall: CE 425 (Fall only), ***CE 421*** (Fall only)

Students graduating in May must, at the latest, take this sequence:

Spring: CE 325

Fall: CE 327, CE 390, CE 425 (Fall only), CE 426

Spring: ***CE 420*** (Spring only)

So, for students in structures to graduate in May, they must take CE 325 no later than the previous spring.

Technical Electives: CE 327 is used as one of the 4 required Technical Electives.

The others can be the student's choice; CE 342 is strongly recommended.

Design Electives: Two of the 3 required Design Electives are CE 426 and either ***CE 420*** or ***CE 421***.

CE 466 (Fall only) is an appropriate Design Elective due to coverage of wood design.

Engineering Science Electives: Required: CE 325 and CE 425. The remaining engineering science elective must be either MAE 301 or ECE 331.

The recommended Basic Science Elective is MEA 101/110. The recommended 1 cr.hr. lab course is CE 324.

Transportation:

The important advising information for students interested in Transportation is that they need to begin taking the prerequisites for ***CE 400*** early enough (***at least two semesters before CE 400***).

Students can take the sequence:

Spring or Summer: CE 305

Fall: at least one of CE 401 (or CE 501* - both Fall only), CE 402 (or CE 502* - both Fall only), CE 413 (Fall only), CE 504 (alternate even yrs., Fall only), or CE 506 (Fall only)

Spring: ***CE 400*** (Spring only).

OR students can take the sequence:

Fall: CE 305

Spring: at least one of CE 403 (Spring only) (or CE 503* alt years, Spring only) or CE 509 (when offered),

Fall: additional transportation courses as desired (see list above).

Spring: ***CE 400*** (Spring only).

* *CE 401 (Fall only) (Engineering Science Elective), and CE 402 (Fall only) and CE 403 (Spring only) (Engineering Design Electives) are recommended for undergraduates; CE 50x courses are open to qualified undergrads (GPA > 2.5).*

Recommended Technical Electives: CE 383 and CE 342

Recommended Design Electives: CE 402 (Fall only), CE 413 (Fall only) and CE 403 (Spring only) (select 2)
Before taking CE 400, we also strongly encourage CE 301 as an Engineering Science Elective and GC 496 (the Civil Engineering section) as the graphics course.

Engineering Science Electives: one must be MAE 301 or ECE 331.

The recommended Basic Science Elective is MEA 101/110.

Water Resources and Environmental:

The important advising information for students interested in Water Resources and Environmental is to begin taking early enough the prerequisites for their planned courses.

Students must take ***CE 480*** in the senior year. Take CE 383 and CE 390 ***prior to*** taking CE 480.

If GC 120 (3 credits) is counted towards the H&SS requirements, students may take another course to satisfy the graphics requirement; recommended courses are GC 496 or GIS 410.

Recommended CE Electives: CE 339 (Fall only) or CE 337 (Spring only) (also see Engr Sci Elect, below).

Recommended Technical Electives: CE 342, CE 373, CE 383 (plus one more).

Recommended Design Electives: Take two from CE 476 (Fall only), CE 477 (Spring only), CE 484 (Fall only), CE 488 (Fall only).

Engineering Science Electives: Take MAE 301, and

two from: CE 479 (Spring only), CE 497 (Energy and Climate; Fall only), CE 435 (alt Spring only; next offered in S'11), CE 487 (Spring only) (or CE 339 or CE 337 if not taken as a CE elective).

The recommended Basic Science Elective is BIO 183. The recommended 1 cr.hr. lab course is CE 381.