

CIVE ELECTIVES

View current version of this document at www.cive.uh.edu/programs/undergraduate/advising.

See course descriptions in [Undergraduate Catalog](#) for all courses except those taught under temporary CIVE #397 Selected Topics numbers.

Fall Semesters:

- **CIVE 3380 Fundamentals of Plane Surveying** (prerequisites = ENGI 1331, ENGI 2304, PHYS 2326, and MATH 3321. (MATH 3321 substitute = TCCNS MATH 2318 Linear Algebra + TCCNS MATH 2320 Differential Eqns.)
- **CIVE 4364 Steel Design** (prerequisite = CIVE 3337, corequisite = CIVE 3332)
- **CIVE 5362 Water Quality Engineering** (prerequisite = CIVE 3331, corequisite = CIVE 3434)

Spring Semesters:

- **CIVE 4337 Transportation Engineering** (prerequisites = INDE 2333 and two CIVE 3000-level courses)
- **CIVE 4381 Satellite-based Geomatics and Geosensing** (prerequisite = two of the following courses: CIVE 3331, CIVE 3332, CIVE 3337, CIVE 3339, and CIVE 3434.)
- **CIVE 5388 Hazardous Waste Processes** (prerequisite = CIVE 4333)

Summer Terms (TENTATIVE):

- **Restricted enrollment – every other summer - CIVE 5397 Construction Law.** (prereqs = ENGI 2304 and select upper-level CIVE courses.) Enrollment limited based on capacity and GPA. Must be upper-classman in major. If you are interested in seeking enrollment - after summer schedule has been posted contact Director of BSCE Program (Dr. Herman, rherman@uh.edu) for instructions.
- **CIVE 5397 Disaster Management and Rapid Recovery Plans** (prerequisites = ENGI 2304 and two CIVE 3000-level courses) Fundamentals of preparedness, minimization of loss, evacuations, debris issues, contaminated sites, etc. Manmade and natural disasters. Rules, guidelines and regulations at local, state and federal levels. Case studies with major losses, recovery, and lessons learned included.

Using CIVE Graduate Courses as CIVE Electives in BSCE Degree

Students with overall and major GPAs of at least 3.0 who are taking upper-level CIVE classes can seek approval to take up to two CIVE graduate classes and use them as CIVE Electives in their BSCE degrees. Approval is not guaranteed and will vary by course. (In a separate approval process through the graduate program - courses **might** be allowed to double-count towards appropriate graduate degree.) To seek permission to enroll in and count a CIVE graduate course towards BSCE degree submit a [General Petition](#). On the petition:

- Fill out contact information at top left.
- Check Item 12.
- Explanation: "I would like to take CIVE #### COURSE NAME in SEMESTER YEAR and use it as a CIVE Elective in my BSCE degree plan. I will be taking a total of X hours (including the graduate course) in SEMESTER YEAR and I will be working Y hours outside of school at EMPLOYER NAME. (If you aren't going to be working outside of school replace the last part with "I will not be working outside school.")
- Sign and date where indicated. Email completed form to Director of BSCE Program (Dr. Herman, rherman@uh.edu).
- After the undergraduate program enrolls you in the graduate course, email the Graduate Advisor (civilgrad@egr.uh.edu) to request instructions on pursuing admission to the accelerated graduate program and approval to double-count these courses towards a graduate degree housed in our department.