

UNIVERSITY of HOUSTON | ENGINEERING

Department of Civil & Environmental Engineering

Bachelor of Science in Civil Engineering (BSCE) Undergraduate Advising Guide

For Current and Prospective Students

Read guide online at <http://cee.egr.uh.edu/programs/undergraduate>

Dept. of Civil and Environmental Engr. Engineering Building I (D Bldg) Suite N107	www.cive.uh.edu 713-743-4250
Ms. Lupe Alicea, Advising Assistant lalicea@uh.edu 713-743-7204	Dr. Reagan Herman Director of BSCE Undergraduate Program rherman@uh.edu

Additions & Corrections to this Guide: If you notice an error or have suggestions for additions please e-mail Dr. Herman at rherman@uh.edu.

Disclaimer: This document does not contain all requirements and provisions applicable to BSCE majors. You are responsible for ensuring you follow all provisions established by UH, the College of Engineering, and the Department of Civil and Environmental Engineering.

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University Level Requirements

- [uh.edu E-mail Alias](#)

Your alias is the primary means of communication for UH, the College, and the Department. **Keep your e-mail alias pointed to a mailbox you check often!**

<http://www.uh.edu/infotech/services/accounts/email/update-student-address/index.php>

- [Undergraduate Catalog](#)

Contains all university academic policies, degree offerings, course descriptions and other information pertinent to undergraduate study at UH.

<http://catalog.uh.edu/>

- [Course Descriptions and Prerequisites](#)

Check pre- and co-requisites carefully. If you don't meet the requisites you can be dropped at any time (after refund date, after W drop date, etc.) When pre- or co-requisites are updated you must follow the new requirements.

<http://catalog.uh.edu/content.php?catoid=8&navoid=1557>

- Texas Common Course Numbering System (TCCNS)

Uniform set of course numbers for Texas public community colleges and universities.

- State of Texas TCCNS page (can compare schools): <https://tccns.org/>
- UH TCCNS page: <http://catalog.uh.edu/content.php?catoid=6&navoid=1128>
- UH Engineering TCCNS page: go to page below and select "Engineering"
<http://www.uh.edu/admissions/apply/apply-transfer/by-major/>

- **Current UH engineering students cannot take engineering courses at other institutions without prior permission.**

- UH Academic Honesty Policy

Violations will result in sanctions up to expulsion from the University. Turn off your cell phone and put it in your backpack during exams!

<http://publications.uh.edu/content.php?catoid=14&navoid=4210>

- Limit on In-state Tuition for Texas Residents

Applies to all in-state students who enrolled at Texas public college or university Fall 1999 or later. All courses (including W grades) at all Texas public schools count. For BSCE degree admitted Fall 2006 or later: hit limit at 130+30=160. Then extra charge per credit hour (currently extra \$100 per credit hour.)

<http://www.uh.edu/provost/stu/policy-updates/enrollment-cap/>

- University of Houston Core Curriculum

Don't assume a course is core; check the list! There are alternate ways to satisfy history and government cores than those on the BSCE degree plan flowchart. Honors College students: follow Honors Program guidance on core. Core courses listed at:

<http://catalog.uh.edu/content.php?catoid=14&navoid=4804>

- Texas Higher Education Coordinating Board Core Web Center

Core courses at all schools: <http://statecore.its.txstate.edu>

If course is core at one Texas public school it is core at all schools. If core complete at one public Texas college or university, core complete at all:

<http://www.uh.edu/admissions/admitted/transfer-credit/guidelines/index.php>

- Honors College

Small-college environment inside large university: offers best of both worlds to UH's most academically talented students. Engineering honors students must meet with Department advisor (not just Honors advisor).

www.uh.edu/honors/prospective-students/index.php

- Grades Lower than C- Not Eligible for Transfer Credit

- 66 Hour Limit on Freshman + Sophomore Transfer Courses that are **APPLIED** to Degree

<http://catalog.uh.edu/content.php?catoid=14&navoid=3553>

- No More than Three Attempts at University course (only **two attempts** for engineering courses)

- Overall GPA of 2.0 Required

- 3000 and 4000 Level Courses **in Major** "Expire" If Taken 7+ Years Ago

- Must complete at least 25% of degree at UH

- Only six of last 30 Hours can be taken outside UH and the outside six hours must be core

<http://catalog.uh.edu/content.php?catoid=14&navoid=3724>

- Can't Graduate on Degree Plan 7+ Years Old

- Must Reapply to UH if Leave for 13+ Months

- Can Choose to Move to Newer Degree Plan

<http://catalog.uh.edu/content.php?catoid=14&navoid=3598>

- Probation and Suspension, Readmission from Suspension
- <http://catalog.uh.edu/content.php?catoid=14&navoid=3551>
- <https://www.egr.uh.edu/academics/policies/probation-and-suspension>

- Applying for Graduation

APPLY TO GRADUATE through myuh.uh.edu early in graduating semester. Don't wait for pending petitions. Deadlines: <http://www.uh.edu/academic-calendar-undergraduate>

College and Department Level Requirements

- CIVE Course Descriptions and Prerequisites

Go to page below. In Prefix dropdown select CIVE.

<http://catalog.uh.edu/content.php?catoid=8&navoid=1557>

- Must take 30 hours of engineering courses at UH
 - Major GPA of 2.25 Required (rule for engineering majors)
 - Must earn C- or Better in Required Engineering, Math, and Science Courses
 - No More Than Two Attempts for Engineering Courses (W grade counts as attempt)
 - Must Have PRIOR Permission to take Engineering Course Anywhere Besides UH
 - Engineering Probation and Suspension
- <http://catalog.uh.edu/content.php?catoid=8&navoid=1466>

- Courses that count towards BSCE Major GPA

http://catalog.uh.edu/preview_program.php?catoid=14&poid=4355&returnto=3519

Civil and Environmental Engineering Department Specifics

- CIVE Degree Plan and Flowchart

Official degree plan in Undergraduate Catalog:

http://catalog.uh.edu/preview_program.php?catoid=14&poid=4355&returnto=3519

Flowchart Aide (flowchart is not an official document):

www.cive.uh.edu/programs/undergraduate/flowchart

Flowchart is just an advising aide. On flowchart – prerequisites and co-requisites change. Students must follow new requirements when they change.

- Advising Notes

1. Future summer course offerings are **not** guaranteed. **Don't count on any summer engineering courses.**
 2. Prerequisite requirements rigorously enforced in all CIVE courses. Exceptions to prerequisites **must be approved in writing (via a General Petition) by the instructor of the course and Dr. Herman.**
 3. CIVE lab classes can demand extra time. When possible, do not schedule more than two CIVE lab classes in same semester.
 4. Lay out course plan at least three semesters ahead. Take courses that are prerequisites for lots of other courses as early as you can.
 5. Some courses (especially at the senior level) are not offered both fall and spring.
 6. Begin planning early to meet prerequisites for senior courses, particularly CIVE 4312.
- Common CIVE Senior Technical Electives (only courses guaranteed to be offered annually are 4364 and 5362)
 - * 4337 Transportation Engineering
 - * 4364 Structural Steel Design (required prerequisite for Fall 4312 Design Course)
 - * 5362 Water Quality Engineering (required prerequisite for Spring 4312 Design Course)
 - * 5380 Introduction to Geomatics and Geosensing (Surveying)
 - * 5397 Hazardous Waste Processes

• Graduate Courses as CIVE Tech Electives

Students who have overall and major GPAs ≥ 3.0 , and are taking no more than four courses total in a long semester MAY be allowed to take two CIVE graduate courses and count them as CIVE Senior Electives. Submit request on General Petition to Dr. Herman.

• Fast Track Master’s Degree: Double-counting Graduate Courses

Select students can double-count two graduate courses towards both undergraduate and graduate degrees. Apply for fast-track graduate program via General Petition to Dr. Wang for Civil or Dr. Rifai for Environmental. For more info on program see last section at:

http://catalog.uh.edu/preview_program.php?catoid=14&poid=4352

**Graduate Courses that are Good Candidates as
CIVE Senior Technical Electives for Strong Seniors**

Structural/Geotechnical	6323 Advanced Foundation Design 6335 Advanced Concrete Design 6337 Matrix Analysis of Structures 6338 Advanced Steel Design 6350 Advanced Mechanics of Materials 6353 Prestressed Concrete 6355 Introduction to Dynamics of Structures
Geosensing	6380 Introduction to Geomatics and Geosensing
Hydrosystems/Water Resources	6331 Hydraulics of Open Channel Flow 6361 Engineering Hydrology 6370 Environmental Fluid Mechanics 6371 River Mechanics and Sediment Transport
Environmental	6377 Environmental Chemistry 6388 Solid and Hazardous Waste Treatment Processes 6391 Environmental Engineering Microbiology

Advisement Report and Petitions

Run your myUH Advisement Report at the beginning and end of every semester. Instructions are available at:

www.uh.edu/myuhhelp/Academic%20Advisement%20Report/index.php

1. If you have been advised to submit a petition do so immediately. Your petitions need to be submitted so that we know if your requests are approved or disapproved.
2. Course substitutions/exceptions that are approved likely won't appear in the proper place on your myUH Advisement Report. The College will e-mail you a copy of petitions after they have been reviewed. If your petition request is approved, keep a copy of the approved petition until you receive your degree from UH.

• Transfer Core Courses that aren't Labeled Core at UH

If a core course from another Texas public school does not fall in the right spot on your myUH Advisement Report let Lupe or Dr. Herman know. They can help get the proper core code attached to your class.

• Transfer Courses that aren't automatically matched to UH courses

After you are admitted, check your academic record at myuh.uh.edu. If transfer courses do not appear within one month of sending your transcript to UH see Lupe. Note - evaluation of international credits can take a significant amount of time.

- *Undergraduate Transfer Credit Petition*

Submit Transfer Credit Petition for courses that are not automatically matched to UH courses. Attach copy of course description and syllabus. Submit to Lupe.

<http://www.uh.edu/academics/forms/#transferpetition>

- *General Petition*

Multiple uses including change of major, overload, degree requirement exception. See Lupe or Dr. Herman to discuss.

<http://www.uh.edu/academics/forms/#generalpetition>

- *Community College Approved CAD Course Substitutes in BSCE Degree Plan*

Must take TWO community college CAD classes to substitute for MECT 3341. This substitute is only for the BSCE degree. Community College "Basic CAD" plus "Intermediate CAD" or "Intermediate CAD" plus a higher level CAD course.

Activities and Scholarships

- *Join the UH student chapter of the American Society of Civil Engineers (UH ASCE)*

Network with fellow students, alumni, and potential employers, volunteer, participate in competitions

<http://asce.egr.uh.edu/> and <https://www.facebook.com/UHASCE>

- *Apply for College Scholarships*

<http://egr.uh.edu/academics/scholarships>

- *Apply for Department Scholarships*

To be eligible - must have completed CIVE 2330 Statics at UH. If CIVE 2330 not taken at UH, must complete CIVE course at higher level at UH to be eligible. Application deadline June 1. A new application must be submitted each year. Download application from link near bottom of the scholarships webpage:

www.cive.uh.edu/programs/undergraduate/scholarships

Some Great Resources for UH Students

You are already paying for many of the resources listed below through you tuition and student fees. Take advantage of them!

- *Scholar Enrichment Program – Workshops for Math and Science Classes (& Scholarships)*

Watch a video about SEP at page below. Click Workshops link to review list of workshops.

<http://sep.uh.edu/about/index.php>

- *Engineering Workshops for Various 1000 and 2000 Level Engineering Courses*

<http://promes.egr.uh.edu/workshops>

- *Counseling and Psychological Services (CAPS)*

CAPS offers counseling for wide range of issues that may interfere with daily life activities, contribute to low academic performance, stress, anxiety, etc. Ten free individual sessions a semester. Strong students have the courage to recognize when they need help.

<http://www.uh.edu/caps/resources/students.html>

- *Learning Support Services – all services free to currently enrolled students*

LSS offers learning support programs and self-development activities designed to increase student academic performance. Individualized assessments and group workshops available.

<http://www.uh.edu/ussc/>

- *Dean of Students Office – Student Advocacy and Support Services*

Service that helps students with various academic and non-academic concerns. When you don't know where to get the help you need ask them!

<http://www.uh.edu/dos/index.html>

- *University of Houston Writing Center*

Trained consultants help you develop and structure ideas, organize thoughts. If your writing skills are weak allow time to meet with consultant more than once on a document.

www.uh.edu/writecen/index.php

- *Engineering Career Center*

Sign up right now! They can help you find internships and post-graduation jobs.

www.egr.uh.edu/career/students/?e=overview

- *University Career Services*

Don't forget to take advantage of the University Career Center too!

www.career.uh.edu/general/ServicesInfo/index.cfm

- *Program for Mastery in Engineering Studies (PROMES)*

PROMES provides a positive learning environment that supports the needs of undergraduate students. PROMES can be particularly helpful to students from underrepresented groups.

www.egr.uh.edu/promes/about/

Admissions Information, Math Placement, AP/CLEP Credit

- *Admissions Webpage*

Admissions are handled by the University, not by departments.

www.uh.edu/admissions/

- *Engineering Admission Requirements*

www.egr.uh.edu/academics/admissions/requirements

- *Math Placement Exam*

Must be taken by students coming directly from high school without AP math credit, and by transfer students with no college math coursework.

www.casa.uh.edu/casa/MPFAQ.htm

- *AP and CLEP Credit*

Send scores to UH's University Testing Services. See brochures at website below for course credit that can be obtained through AP, CLEP, and other tests.

<http://ussc.uh.edu/uh-credit-by-examination.aspx>

- *UH in 4*

Four year graduation with fixed tuition.

<http://www.uh.edu/provost/UHin4/>

<http://www.uh.edu/provost/UHin4/academic-maps/>

- *Fixed Tuition for Transfer Students*

<http://www.uh.edu/provost/UHin4/transfer-student-fixed-four-year-tuition-option/>