

UC 8818 05F

## Department of Civil and Environmental Engineering

**Chair:**

Cumaraswamy Vipulanandan

**Professors:**

Dennis A. Clifford, Osman I. Ghazzaly, Thomas T. C. Hsu,  
Y. L. Mo, Cumaraswamy Vipulanandan, Keh-Han Wang

**Associate Professors:**

Shankar Chellam, Theodore G. Cleveland, Kye J. Han, Todd  
A. Helwig, Hanadi S. Rifai, William G. Rixey, Deborah J.  
Roberts, Jerry R. Rogers

**Assistant Professors:**

Omer Bilgin, Reagan S. Herman, Basim B. Mekha (Adjunct)

Web: [www.egr.uh.edu/CIVE/](http://www.egr.uh.edu/CIVE/)

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### Civil Engineering Program

Engineering majors must earn a grade of **C-** or better in all engineering, mathematics, and science courses. No grade lower than **C-** will be accepted on any courses transferred to the University of Houston.

Students must maintain an overall grade point average of 2.00 or higher in all courses.

Students must earn a 2.25 grade point average in their first 12 hours of Cive courses in order to continue in the major and to enroll in Cive courses at the 3000-level and above. The major grade point average is calculated using all Cive courses. See college rules for additional detail on major GPA requirements. The number of attempts in a CIVE course is limited to two.

**Attempt** is defined as formal registration that results in a student's name being listed on an official grade report, which also includes grades of **Q**, **U**, **W**, and **I**. See college rules for additional detail regarding maximum number of attempts.

CNST 1330 (Graphics I) is required unless one year of engineering drawing or technical drafting was completed in high school.

Web: [www.egr.uh.edu/cive/academics/undergrad/](http://www.egr.uh.edu/cive/academics/undergrad/)

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12/8/05

First Year 4

<b>Fall Semester</b>	<b>Hours</b>
CIVE 1188. Challenge of Civil Engineering <sup>5</sup>	1
<u>CHEM 1331. Fundamentals of Chemistry</u> (Approved Natural Science Core Course)	3
<u>CHEM 1111. Fundamentals of Chemistry Laboratory</u>	1
<u>ENGL 1303. Freshman Composition I</u> or <u>ENGL 1309. English composition for Nonnative Speakers I</u>	3
MATH 1431. Calculus I <sup>2</sup> (Approved Math/Reasoning Core Course)	4
HIST 1376 or 1377. The United States to 1877 <sup>1</sup>	3
<b>Total</b>	<b>15</b>

<b>Spring Semester</b>	<b>Hours</b>
<u>CHEM 1332. Fundamentals of Chemistry</u> (Approved Natural Science Core Course)	3
<u>CHEM 1112. Fundamentals of Chemistry Laboratory</u>	1
<u>CIVE 1331. Computing for Engineers</u>	3
<u>ENGL 1304. Freshman Composition II</u> or <u>ENGL 1310. English Composition for Nonnative Speakers II</u>	3
<u>MATH 1432. Calculus II</u>	4
<u>PHYS 1321. University Physics I</u>	3
<b>Total</b>	<b>17</b>

## Second Year

Fall Semester	Hours
<u>CIVE 2330. Mechanics I (Statics)</u>	3
Approved Humanities Core Course	3
<u>MATH 2433. Calculus III</u>	4
<u>PHYS 1322. University Physics II</u>	3
<u>MECT 3341. Computer-Aided Drafting I</u>	3
<b>Total</b>	<b>16</b>
Spring Semester	Hours
<u>CIVE 2331. Mechanics II (Dynamics)</u>	3
<u>CIVE 2332. Mechanics of Deformable Solids</u>	3
Social Sciences Core Course	3
<u>INDE 2333. Engineering Statistics I</u>	3
<u>MATH 3321. Engineering Math</u>	3
<del><u>ENGL 2304. U.S. and Texas Constitutions and Politics</u></del>	3 deleting
<u>ENGI 2304. Technical Communications</u>	3 adding
<b>Total</b>	<b>18</b>

## Third Year

Fall Semester	Hours
<u>CIVE 3332. Engineering Materials</u>	3
<u>CIVE 3337. Theory of Structures</u>	3
<u>CIVE 3339. Geotechnical Engineering</u>	3
<u>ECE 3336. Introduction to Circuits and Electronics</u>	3
<u>ENGI 2334. Introduction to Thermodynamics</u>	3
POLS 1336. U.S. and Texas Constitutions and Politics <sup>1</sup>	3
<b>Total</b>	<b>18</b>

Spring Semester	Hours
<u>CIVE 3331. Environmental Engineering</u>	3
<u>CIVE 3434. Fluid Mechanics and Hydraulic Engineering</u>	4
<u>CIVE 4363. Concrete Design</u>	3
<u>INDE 3333. Engineering Economy I</u>	3
POLS 1337. U.S. Government: Congress, President, and Courts <sup>1</sup>	3
<b>Total</b>	<b>16</b>

## Fourth Year

Fall Semester	Hours
<u>CIVE 4311. Civil Engineering Design and Professional Practice</u>	3
<u>CIVE 4332. Hydrology</u>	3
<u>CIVE 4333. Water and Wastewater Treatment</u>	3
<u>CIVE 4369. Foundation Engineering</u>	3
<u>CIVE Elective 7</u>	3
<del>Social Sciences Writing Intensive Core Course</del>	<del>3</del>
<i>Replaced with ENGI 2304 (communications W1 Core Course) in 2nd YY Spring Semester</i>	
<b>Total</b>	<del>18</del> <b>15</b>

Spring Semester	Hours
CIVE 4312. Civil Engineering Design Project <sup>6</sup>	3
<u>CIVE Elective 7</u>	3
<u>CIVE Elective 7</u>	3
Visual/Performing Arts Core Course	3
HIST 1378 or 1379. The United States since 1877 <sup>1</sup>	3
<b>Total</b>	<b>15</b>

<b>Degree Total:</b>	<del>133 hrs.</del> <b>130 hrs.</b>
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