An aerial photograph of the University of Houston campus, showing various buildings, green spaces, and parking lots. In the background, the Houston skyline is visible under a clear blue sky. The title text is overlaid on the top half of the image in large, bold, white letters on colored rectangular backgrounds.

UH ENGINEERING GUIDE

FOR

TRANSFER STUDENTS

UNIVERSITY of **HOUSTON** | ENGINEERING

UNDERGRADUATE MAJORS AND MINORS

MAJORS

- BIOMEDICAL
- CHEMICAL
- CIVIL
- ELECTRICAL & COMPUTER
- INDUSTRIAL
- MECHANICAL
- PETROLEUM

MINORS

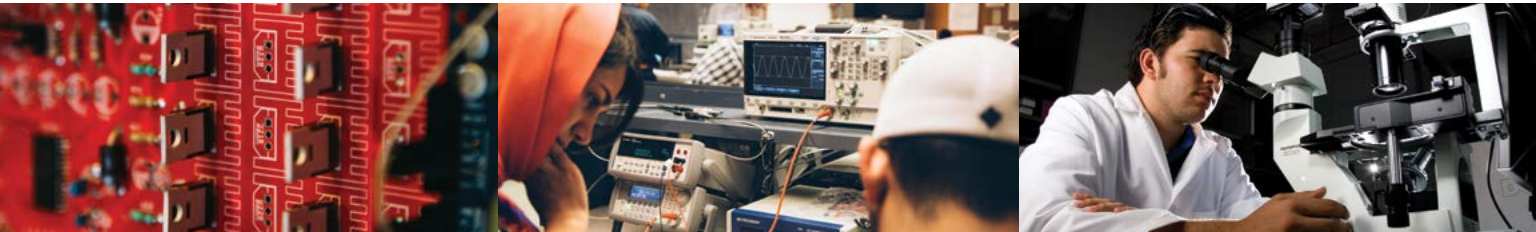
- MECHANICAL
- NANO TECHNOLOGY (THROUGH ECE)
- PETROLEUM

MINIMUM TRANSFER REQUIREMENTS

REQUIRED GPA	3.25	3.0	3.0	2.5	3.0
TRANSFER REQUIREMENTS	All college-level work attempted•	All Calculus courses and Math courses with Calculus prerequisites attempted	All college-level Chemistry, Biology, Geology, and Calculus-based Physics courses that apply to UH engineering degree plan attempted	All college-level English courses attempted	All college-level Engineering courses attempted••

- University of Houston does not replace grades if a course is repeated, rather the grades of the repeated course are averaged. University of Houston and the Cullen College of Engineering will consider all of these grades when considering admission.
- Engineering courses are not required for transferring into the Cullen College of Engineering.

NOTE
AP Test credit will provide you with course credit, but not a grade. This is important when applying to the University of Houston because admission to the university will automatically be denied if one of these criteria is missing a GPA.



COURSE REQUIREMENTS



All students must have credit for (can include AP credit):

- Calculus I & II
- General Chemistry I
- “Calculus-based” Physics I

NOTE

AP credit can be applied for some courses. For example, you may apply AP credit for Calculus I and then transfer in credit for Calculus II.

To meet the GPA criteria, all students must have attempted at least

- One college level English course
- One “Calculus-based” Math course
- One college level General Chemistry, Biology, Geology, or “Calculus-based” Physics course.

NOTE

Cannot only have AP credit for these courses because there will be no GPA calculation for each of these categories.

TRANSFER CREDIT

- You are able to transfer in all of Texas core courses, including STEM courses. The Texas Common Core Numbering System (tccns.org) can be used to determine how courses will transfer between Texas public institutions.
- If you are planning to complete Texas Core Requirements before transferring to University of Houston, it is important to be aware that you will be limited in the number of courses you can take during your first semester due to prerequisite courses.
- TCCNS may indicate that there is no University of Houston equivalent course for the 4-credit hour science courses. Those courses will transfer as a 3-credit hour course and a 1-credit hour lab. For example, CHEM 1411 = University of Houston CHEM 1331 and CHEM 1111.



PREREQUISITE COURSE

a course that must be completed before the given course.

CO-REQUISITE COURSE

a course that must be taken either before or concurrently with the given course.

NOTE

For more information about transfer equivalency please visit <http://www.uh.edu/admissions/apply/apply-transfer/by-major/index.php>.

IMPORTANT CONSIDERATIONS IF TRANSFERRING CORE COMPLETE

The UH engineering advisors strongly encourage students to save a few transferrable courses for their first semester at UH.

- There is a prerequisite nature to engineering courses, so course selection will be limited the first semester if transferring into UH core complete.
- Once at UH, UH courses will be the only courses included in the GPA calculation. Taking some core courses at UH can help your GPA.

If transferring to UH Core complete, the available courses you will be able to take will be limited. This is important if:

- You are a veteran as you must be enrolled in at least 12 units that can be applied to your degree to receive full VA benefits.
- You are required to be a full-time student as an international student.
- You are requesting financial aid as a full-time student.

NOTE:

The University of Houston allows you to take at both UH and another campus (for Core courses), but not being enrolled in at least 12 units at a single location will impact the amount of financial aid given.

- You are receiving a scholarship requiring you to be a full-time student.

ENGINEERING COURSES THAT TRANSFER

UH has an articulation agreement with the **Houston Community College System**, **Lone Star College System** and the **San Jacinto College District**.

STUDENTS AT ONE OF THESE INSTITUTIONS CAN TRANSFER IN CREDIT FOR:



GENERAL ENGINEERING COURSE FLOW CHART

SEMESTER 1

CHEM 1411
GENERAL
CHEMISTRY I

ENGR 1201
INTRODUCTION TO
ENGINEERING

MATH 2413
CALCULUS I

SEMESTER 2

CHEM 1412
GENERAL
CHEMISTRY II

ENGR 2304
PROGRAMMING FOR
ENGINEERING

MATH 2414
CALCULUS II

**PHYS
2325/2425**
UNIVERSITY
PHYSICS I

SEMESTER 3

MATH 2415
CALCULUS III

**PHYS
2326/2426**
UNIVERSITY
PHYSICS II

CO-REQUISITE



PREREQUISITE



• General Chemistry II is not required for Computer, Electrical, or Industrial Engineering.

CIVIL AND MECHANICAL ENGINEERING

Civil and Mechanical Engineering students can also take the following courses, but should take them according to the University of Houston pre/co-requisite listings:

- ENGR 2301 Engineering Mechanics I
 - PHYS 2325 is a prerequisite for ENGR 2301
 - ENGR 2304 is a co-requisite for ENGR 2301
 - MATH 2415 is a co-requisite for ENGR 2301
- ENGR 2302 Engineering Mechanics II
 - ENGR 2304 is a prerequisite for ENGR 2302
 - ENGR 2301 is a prerequisite for ENGR 2302
 - MATH 2415 is prerequisite for ENGR 2302
 - Linear Algebra/Diff EQ co-requisite



COMPUTER AND ELECTRICAL ENGINEERING

Computer and Electrical Engineering students are required to take Physics lab.

- PHYS 2325 and PHYS 2125 or PHYS 2425 for University Physics I
- PHYS 2326 and PHYS 2126 or PHYS 2426 for University Physics II



CHEMICAL, COMPUTER AND ELECTRICAL ENGINEERING



Chemical, Computer and Electrical Engineering students are required to take the UH course ECON 2304. This course fulfills the Social and Behavioral Sciences Core requirement. The Houston Community College System, Lone Star College system and the San Jacinto College District course equivalent is ECON 2302.

IMPORTANT PROCEDURES

UNIVERSITY OF HOUSTON POLICY

GRADE REPLACEMENT	UH does not replace grades, rather averages the grades for the course. For example, for a 3 unit course: First Attempt D: 1.0 Second Attempt A: 4.0 Average grade for course C+/B-: 2.5
PLUS AND MINUS	The highest grade awarded at UH is an A, followed by A-, B+, B, B-, etc.
6 “W” RULE	Beginning with the Fall 2007 semester, students are allowed only 6 W’s throughout their undergraduate career at any public institution in Texas (Courses dropped prior to the Fall 2007 semester are not counted toward the 6 W’s.)
MAXIMUM TRANSFER OF 66 UNITS	When transferring into UH, a maximum of 66 units transferred can be applied to your degree plan. For example, College Algebra and Pre-Calculus credits will transfer, but those courses are not required to complete an engineering degree and therefore will not be included as part of the 66 units.

CULLEN COLLEGE OF ENGINEERING POLICY

“TWO-ATTEMPT” RULE	The College of Engineering policy does not allow a student to attempt engineering courses more than two times and mathematics or science courses more than three times. Counted attempts include all courses that result in a grade of “A-F”, “W” or “I”.
C-RULE	The College of Engineering requires a grade of a “C-” or better for credit in any mathematics, science or engineering course that applies toward the bachelor’s degree. In addition, the “C-” is required for any mathematics, science or engineering course used as a prerequisite for a subsequent course.
ENGINEERING COURSES	Starting the first semester you are enrolled at UH, all engineering courses must be taken at the University of Houston.

NOTE
Credit will not be awarded for any courses transferred into UH with a grade below a C-. (publications.uh.edu/content.php?catoid=21&navoid=5528)

TRANSCRIPTS

- **Submit your official transcripts to the Office of Admissions as soon as you complete your coursework at your other institution. Electronic transcripts are strongly encouraged at this helps process your transfer credit in a more expedient fashion.**
[\(www.uh.edu/admission/apply/apply-transfer/\)](http://www.uh.edu/admission/apply/apply-transfer/)
- **Be aware of application deadlines and credential deadlines. If you plan on taking a course necessary for engineering transfer admissions the semester prior to starting at UH, missing the course on your transcript may prevent admissions for the desired semester.**

NOTE
Credit will not be awarded for any courses transferred into UH with a grade below a C-.
publications.uh.edu/content.php?catoid=21&navoid=5528)

TOEFL REQUIREMENTS

- **English Language Proficiency Requirement will be exempt if:**

- Earned a high school diploma, associates of arts, associate of science or bachelor's degree or higher from an accredited U.S. high school, college or university.
- Completed the equivalent of a high school education or the equivalent of a U.S. bachelor's degree in the following countries: (see map on pages 16 and 17)



www.uh.edu/admissions/apply/international/admissions-criteria/english-proficiency-toefl/



ENGINEERING HOUSTON. ENGINEERING THE WORLD.

ENGLISH LANGUAGE PROFICIENCY EXEMPTIONS

YOU MUST HAVE COMPLETED THE EQUIVALENT OF A HIGH SCHOOL EDUCATION OR THE EQUIVALENT OF A U.S. BACHELOR'S DEGREE* IN ONE OF THE FOLLOWING COUNTRIES:

* Associate's degrees earned from the listed countries do not apply to the English Language Proficiency Requirement exemption.



BENEFITS OF UH ENGINEERING

After a semester at UH, you will be eligible to:

- apply for general engineering and department specific scholarships
- apply for internships through the Career Center Portal, eConnection

NOTE

You must have a UH GPA to apply for scholarships and internships through the Cullen College of Engineering.



SCHOLAR ENRICHMENT PROGRAM

The Scholar Enrichment Program (SEP) is run through the College of Natural Science and Mathematics. SEP offers student facilitated workshops in conjunction with math and science courses to enhance learning and problem-solving skills. Students facilitating the workshops earned an A in the course and are not responsible for teaching or tutoring the material, but rather assisting students in self-discovery of understanding the material.



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

PROGRAM FOR MASTERY IN ENGINEERING STUDIES (PROMES)

- PROMES students not only learn and practice problem-solving skills required of engineers, but they also learn leadership skills, the value of working in interdisciplinary teams and soft skills that are required for professional development.
- PROMES is a learning community that assists students in establishing effective study groups.
- PROMES also offers workshops, similar to the SEP workshops, that assist students in understanding the material taught in the sophomore-level courses.



TIPS FOR SUCCESS

- Form study groups with peers in your math, science and engineering courses.
- Take courses at the community colleges that will teach the material and not just “give easy A’s.”
- UH does not replace grades and is on the plus, minus system.
- Do not rush to complete core courses. Many Cullen College of Engineering courses have prerequisites that can prevent you from having a full-time schedule for at least your first semester at UH.
- Sign up for your ART Orientation Conference as early as possible.



Learn more at



www.egr.uh.edu

UNIVERSITY of **HOUSTON** | ENGINEERING