University Core Requirements (43* Hours) | UHCL Course Title | TCCNS | CODE
--- | --- | --- | ---
Communications (6 hours): | WRIT 1301—Composition I (Grade must be “C-” or better) | ENGL 1301 | 010
 | WRIT 1302—Composition II (Grade must be “C-” or better) | ENGL 1302 | 010
Mathematics (4* hours): | MATH 2413—Calculus I (Grade must be “C-” or better) | MATH 2413 | 020
*Three (3) hours of Calculus will count toward the University Core and one (1) hour will count toward the Major
Life and Physical Sciences (6 hours): | PHYS 2325—University Physics (lecture, Grade must be “C-” or better) | PHYS 2325 | 030
 | PHYS 2326—University Physics (lecture, Grade must be “C-” or better) | PHYS 2326 | 030
Language, Philosophy, and Culture (3 hours): | Choose ONE course from the core approved list | | 040
Creative Arts (3 hours): | Choose ONE course from the core approved list | | 050
U.S. History (6 hours): | HIST 1301—U.S. History I | HIST 1301 | 060
 | HIST 1302—U.S. History II | HIST 1302 | 060
Government/Political Science (6 hours): | POLS 2305—Federal Government | GOVT 2305 | 070
 | POLS 2306—Texas Government | GOVT 2306 | 070
Social/Behavioral Science (3 hours): | Choose ONE course from the core approved list | | 080
Component Area Option (6 hours): | COMM 1315—Public Speaking | SPCH 1315 | 090
 | PSYC 1100—Learning Frameworks | PSYC 1100 | 090
 | PHYS 2125—Lab for University Physics I (Grade must be “C-” or better) | PHYS 2125 | 090
 | PHYS 2126—Lab for University Physics II (Grade must be “C-” or better) | PHYS 2126 | 090

Major Requirements (80 hours) | UHCL Course Title
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Required minimum grade for all Major Requirements is “C-”.
WRIT 3315—Advanced Technical Writing
CHEM 1311/1111—General Chemistry and Lab | CHEM 1311/1111 | 030/090
MATH 2414—Calculus II
MATH 2315—Calculus III
MATH 2318—Linear Algebra
MATH 2320—Ordinary Differential Equations
MATH 2305—Discrete Mathematics
STAT 3334—Probability & Statistics for Sci & Eng
CSCI 1320—C Programming
CSCI 1370—Software Development with Java
CSCI 2315—Data Structures
CENG 2371—Microcontroller Programming
CENG 2312/2112—Digital Circuits and Lab
CENG 3313/3113—Linear Circuits and Lab
CENG 3316/3116 Electronics and Lab
CENG 3331/3131—Intro to Telecom & Networks and Lab
CENG 3351/3151—Computer Architecture and Lab
CENG 3264—Engineering Design & Project Management
CENG 4313/4113—Microprocessor Interfacing and Lab
CENG 4331—Analysis & Design of Linear Systems
CENG 4354—Digital Systems Design
CENG 4265—Senior Projects I
Major Requirements (80 hours, continued)

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<th>CENG 4266—Senior Projects II</th>
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<td>SENG 4310—Intro to Systems Engineering</td>
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<td>SWEN 4342—Software Engineering</td>
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Major Electives (9 hours)

Required minimum grade for all Major Requirements is “C -”. CENG students will not be permitted to use CSCI 3303, 3311, 3331, 4303, or 4307 as electives.

- CENG/CSCI Elective 33xx or 43xx taken junior/senior year; requires faculty advisor approval
- CENG/CSCI Elective 33xx or 43xx taken junior/senior year; requires faculty advisor approval
- CENG/CSCI Elective 33xx or 43xx taken junior/senior year; requires faculty advisor approval

Scholastic Performance Requirements for Computer Engineering Undergraduates

The UHCL graduation requirements stipulate that a student must achieve an overall minimum grade point average (GPA) of 2.0. The Computer Engineering program imposes additional requirements for students to be accepted into, and progress through, the upper-level Computer Engineering curriculum. The courses listed below (or equivalent courses as approved by the departmental academic advisor) are considered the Lower-Level Core (LLC) for Computer Engineering and must be completed with a grade of C- or better and a cumulative GPA of 2.5 or higher: CSCI 1320, CSCI 1370, CSCI 2315, PHYS 2325 and lab, PHYS 2326 and lab, MATH 2413, MATH 2414, MATH 2305 and WRIT 1301.

Students may enroll in upper-level (3000-level) Computer Engineering or Computer Science courses after successfully completing the Computer Engineering LLC. Admission to upper-level status will be granted to students who successfully complete the Computer Engineering LLC courses during their freshman or sophomore years and have an overall UHCL GPA of 2.5 or higher. No LLC course may be attempted more than two times without consulting an assigned faculty advisor.

General Degree Requirements

- Students must complete at least 132 semester credit hours. A minimum of 45 hours of the 132 semester hours must be advanced (3000-4000 level) course work according to the requirements of the respective major.
- Students must complete the University Core Curriculum requirements (refer to Core Curriculum Requirements section of this catalog).
- Students must fulfill the statutory requirements of the Texas State Education Code, including the following:
  - Six hours of U.S. History (three hours may be Texas History).
  - Six hours of Constitutions of the United States and Texas.
- Students must demonstrate writing proficiency by completing nine hours of lower-level (1000-2000 level) and upper-level (3000-4000 level) English composition course credit with a minimum grade of "C-" or better. Some majors may require higher grades in English composition.
- Students must complete at least 25% of the credit hours required for the degree (i.e., 30 semester credit hours for a 120 credit hour program) through instruction offered by UHCL to fulfill the Southern Association of Colleges and Schools (SACS) residency requirements.
- Students must complete the final 30 semester hours of 3000 and 4000 level course work in residence at UHCL.
- Students must complete a minimum of 12 semester credit hours of upper-level (3000-4000 level) coursework in the major in residence at UHCL.
- Students must have a cumulative GPA of 2.000 on course work completed at UHCL with grades of "C" or better on at least 30 hours of resident upper-level work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work.