

Bachelor of Science (BS) Mechanical Engineering 2026-2027 Official Degree Plan

Liberal Arts Core Curriculum (LACC) Requirements

HCU's Liberal Arts Core Curriculum guides students to more fully know and make known:

- **God**, the Creator and Redeemer, as he has revealed Himself in his Son, by the Holy Spirit, through the Scriptures and His World. *Core outcomes:* Biblical literacy ¹, Christian wisdom ², and theological proficiency ³.
- **God's Creation** by examining and engaging with the design, intricacy, and coherence of his world. *Core outcomes:* Scientific ⁴, quantitative ⁵, and aesthetic literacy ⁶.
- **Humans as God's Image Bearers** by investigating and celebrating human dignity, interdependence, and flourishing through their status as created, purposeful beings. *Core outcomes:* Investigation and celebration of human dignity ⁷, interdependence ⁸, and flourishing ⁹ through the cultivation of charity, humility, and verbal literacy.

For more information about the mission and philosophy of our Liberal Arts Core Curriculum, please visit the [Core Curriculum website](#).

| COURSES | OUTCOMES | HOURS |
|---|---------------|-----------|
| CHRI 1301 Introduction to the Bible* | 1 2 3 7 8 9 | 3 |
| CHRI 2373 Christian Theology and Tradition* | 1 2 3 7 9 | 3 |
| PHIL 1313 Introduction to Philosophy | 2 3 6 7 8 9 | 3 |
| PHYS 2413/2013 Principles of Physics I with Lab | 2 4 5 6 | 4 |
| MATH 1451 Calculus* | 2 4 5 6 | 4 |
| ART 2343 Art Appreciation or MUSI 1331 Music Appreciation (choose one) | 2 6 8 9 | 3 |
| ENGL 1313 Composition and Literature I* | 1 2 3 6 7 8 9 | 3 |
| ENGL 1323 Composition and Literature II* | 1 2 6 7 8 9 | 3 |
| ENGL 2315 Great Works of Literature I or ENGL 2325 Great Works of Literature II (choose one) | 1 2 3 6 7 8 9 | 3 |
| GOVT 2313 American and Texas Government | 2 7 8 9 | 3 |
| COMM 1323 Rhetoric and Public Speaking | 2 6 7 8 9 | 3 |
| HIST 2311 Western Civilization I | 1 2 6 7 8 9 | 3 |
| HIST 2312 Western Civilization II, or HIST 2313 US History to 1877, or HIST 2323 US History from 1877 (choose one) | 2 3 6 7 8 9 | 3 |
| PSYC 1313 General Psychology | 1 2 3 4 7 8 9 | 3 |
| Total LACC Hours | | 44 |

* Course must be completed with "C" or higher

* Students transferring to HCU with 45 or more hours of transferrable college credit will take only CHRI 3300 Introduction to Bible and Theology ¹ ² ³ ⁷ ⁹ to meet their LACC Christianity requirements. This lowers the LACC requirement to 40 credit hours, but the student must still complete the total required hours for the degree.

Math and Science Requirements

(all courses required for major must be completed with "C" or higher)

| COURSES | HOURS | |
|---|-------|-----------|
| MATH 1451 Calculus I | LACC | |
| MATH 1452 Calculus II | 4 | |
| MATH 2451 Calculus III | 4 | |
| MATH 3314 Probability and Statistics | 3 | |
| MATH 3333 Ordinary Differential Equations | 3 | |
| PHYS 2413 Principles of Physics I | LACC | |
| PHYS 2423 Principles of Physics II | 4 | |
| CHEM 2315/2115 General Chemistry I with Lab | 4 | |
| COSC 1351 Intro to Computer Programming | 3 | |
| Total Math and Science Hours | | 25 |

Major Requirements

(all courses required for major must be completed with "C" or higher)

| COURSES | HOURS | |
|---|-------|------------|
| ENSC 1411 Engineering and Cyber Projects I | 4 | |
| ENSC 1412 Engineering and Cyber Projects II | 4 | |
| ENSC 2211 Computer-Aided Design and Engineering | 2 | |
| ENSC 2322 Thermodynamics | 3 | |
| ENSC 2331 Statics | 3 | |
| ENSC 2341 Engineering Materials | 3 | |
| ENSC 2335 Mechanics of Materials | 3 | |
| ENSC 2351 Dynamics | 3 | |
| ENSC 4311 Senior Project I | 3 | |
| ENSC 4312 Senior Project II | 3 | |
| ENSC 4315 Internship/Professional Experience | 3 | |
| MEEN 3341 Manufacturing Processes | 3 | |
| MEEN 3351/3151 Dynamic Systems and Controls / Dynamic Systems and Controls Lab | 4 | |
| MEEN 3371/3171 Fluid Mechanics / Fluid Mechanics Lab | 4 | |
| MEEN 3374/3174 Heat Transfer / Heat Transfer Lab | 4 | |
| MEEN 4351/4151 Mechatronics / Mechatronics Lab | 4 | |
| MEEN 4341 Machine Design | 3 | |
| Total Major Hours | | 56 |
| Total Hours in Degree | | 125 |

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Additional Graduation Requirements

1. At least 125 total credit hours, including 30 credit hours of upper-level (3000 or 4000) courses.
2. Community Life and Worship (CLW) credits: 80 credits required for graduation (at least 50 credits must be CLW-A earned through worship events, up to 30 credits may be CLW-B earned through community life events). CLW events offered each semester are listed on the [Spiritual Life CLW website](#).
3. FYS 1300 Freshman Year Seminar is required for all students enrolling at HCU with fewer than thirty (30) credit hours. College credit earned prior to high school graduation (e.g., dual credit) does not count toward the 30-hour requirement. Students enrolled in 100% online degree programs will take ONLN 1300 Introduction to Online Learning in place of FYS 1300.
4. At least 30 credit hours or 25 percent of the total credit hours required for an undergraduate degree (whichever is greater) must be earned at HCU, including at least 12 credit hours of upper-level courses in the major with a grade of "C" or better in each course.
5. Cumulative GPA of at least 2.00 with no grade below "C" in courses required for the major or as noted on the degree plan.
6. Once admitted and enrolled at HCU, no more than 18 credit hours may be transferred from another institution. Students should consult with their academic advisor prior to enrolling in courses at another institution.

Filing a Degree Plan

All undergraduate students must have an official signed and approved degree plan on file with the Office of Academic Records by the time they complete 64 credit hours. Students should contact their academic advisor to begin the process. If seeking a double degree, double major, minor, or certificate, an official degree plan must be filed for each program of study. For questions, email degreeplans@HC.edu.

Applying for Graduation

Undergraduate students should apply for graduation through the HCU student self-service portal at least one semester before their anticipated graduation date. An official degree plan must be on file before the application can be accessed. More information about applying for graduation, including deadlines, can be found on the [Graduation Application website](#). For questions, email grad@HC.edu.

Degree Works

Access Degree Works through the [HCU Student Portal \(my.HC.edu\)](#) to view your degree plan status, graduation application status, and track your progress to graduation. For questions, contact your academic advisor.

University Catalog

The University Catalog is the official record of academic policies. Students are responsible for familiarizing themselves with the information in the catalog, including attendance policies, transfer credit policies, academic standing information, and course descriptions. The catalog can be found on the [HCU Catalog website](#).

Acknowledgment and Signatures

By signing below, you acknowledge that you have read and agree to abide by all requirements on the degree plan. This degree plan is not valid until received and processed by the Office of Academic Records.

Student Name (Printed)

Student H#

HCU Email

Student Signature

Date

Advisor Signature

Date

Office of Academic Records Use Only

Processed By: _____

Date: _____