



**HOUSTON CHRISTIAN UNIVERSITY DEGREE PLAN  
BACHELOR OF SCIENCE IN COMPUTER SCIENCE  
CATALOG YEAR: 2024-2025**

NAME: \_\_\_\_\_ H#: \_\_\_\_\_ DATE: \_\_\_\_\_

**Candidates for a single major undergraduate baccalaureate degree must complete a total of at least 125 credit hours along with the following requirements:**

- No fewer than 30 semester hours of upper-level (3000 or 4000) courses.
- No more than 6 credit hours in Kinesiology activity courses or other student activity hours will count towards the 125-credit hour requirement.
- Complete the Liberal Arts Core Requirements
- Complete a minimum of 30 hours or 25% of the required hours, whichever is greater, of residency at HCU including at least 12 upper-level hours in the major.
- Cumulative GPA of at least 2.00 with no grade below "C" in courses required for the major.
- If completing a MINOR, at least 9 upper-level hours of residency at HCU included in the minor with a grade of "C" or higher in all courses.

**Once admitted and enrolled at HCU, each student MUST:**

- Receive prior approval for any courses taken at another institution (up to 18 total credit hours only).
- File a degree plan with the Office of Academic Records before 60 credit hours have been completed.
- File an application to graduate at least one (1) semester before anticipated date of graduation.

**LIBERAL ARTS CORE REQUIREMENTS: \*Course must be completed with a "C" or higher**

| COURSES   | HOURS | COURSES   | HOURS     |
|---|-------|---|-----------|
| *ENGL 1313 Composition & Literature I               | 3     | *MATH 1451 Calculus I   | 4         |
| *ENGL 1323 Composition & Literature II              | 3     | PHYS 2413/2013 Principles of Physics I with lab                       | 4         |
| ENGL 2315 or 2325 Great Works of Literature I or II | 3     | GOVT 2313 American & Texas Government                                 | 3         |
| PSYC 1313 General Psychology                        | 3     | HIST 2311 Western Civilization I                                      | 3         |
| PHIL 1313 Introduction to Philosophy                | 3     | Additional History Course (Choose 1): HIST 2312, HIST 2313, HIST 2323 | 3         |
| CHRI 1301 Introduction to the Bible                 | 3     | ART 2343 Art Appreciation or MUSI 1331 Music Appreciation             | 3         |
| CHRI 2373 Christian Theology & Tradition            | 3     | COMM 1323 Rhetoric & Public Speaking                                  | 3         |
|   |       | <b>TOTAL HOURS IN LIBERAL ARTS CORE</b>                               | <b>44</b> |

Students transferring to Houston Christian University with 45 or more hours of transferable college credit are only required to take CHRI 3300, Introduction to Bible and Theology, to meet their Liberal Arts Core Curriculum Christianity requirements.

**MATH AND SCIENCE REQUIREMENTS: All courses must be completed with a "C" or higher**

| COURSE #  | COURSE NAME                                | HOURS     |
|-----------|--|-----------|
| MATH 1451 | Calculus I                                 | (LACC)    |
| MATH 1452 | Calculus II                                | 4         |
| MATH 3311 | Introduction to Discrete Mathematics       | 3         |
| MATH 2323 | Linear Algebra                             | 3         |
| PHYS 2413 | Principles of Physics I                    | (LACC)    |
| PHYS 2423 | Principles of Physics II                   | 4         |
| ENSC 1411 | Engineering & Cyber Projects I             | 4         |
| ENSC 1412 | Engineering & Cyber Projects II            | 4         |
| MATH 3314 | Probability & Statistics                   | 3         |
| MATH 3111 | Advanced Topics                            | 1         |
|           | <b>TOTAL MATH AND SCIENCE REQUIREMENTS</b> | <b>26</b> |

**MAJOR REQUIREMENTS: All courses within major must be completed with a "C" or higher**

| COURSE #      | COURSE NAME  | HOURS      |
|---------------|--|------------|
| ENSC 4311     | Senior Project I   | 3          |
| ENSC 4312     | Senior Project II  | 3          |
| ENSC 4315     | Internship/Professional Experience   | 3          |
| COSC 1351     | Introduction to Computer Programming   | 3          |
| COSC 1352     | Intermediate Computer Programming  | 3          |
| COSC 2351     | Data Structures  | 3          |
| COSC 2355     | Database Management Systems  | 3          |
| COSC 2353     | Operating Systems  | 3          |
| CYEN 3331     | Computer Network Security  | 3          |
| COSC 3341     | Computer Architecture  | 3          |
| COSC 3352     | Theory of Computing  | 3          |
| COSC 3354     | Web Application Programming  | 3          |
| COSC 3342     | Computer Networks  | 3          |
| COSC 4352     | Software Design & Engineering  | 3          |
| COSC 4381     | Data Analytics   | 3          |
| COSC 2454     | Advanced Data Structures, Algorithms, & Programming  | 4          |
| CYEN Elective | 6 credit hours from CYEN 4331, CYEN 4332, CYEN 4333, CYEN 4337, CYEN 4352, CYEN 4391, or CYEN 4335 | 6          |
|               | <b>TOTAL HOURS IN MAJOR</b>  | <b>55</b>  |
|               | <b>TOTAL HOURS IN DEGREE</b>   | <b>125</b> |

**OTHER GRADUATION REQUIREMENTS:**

- Community Life and Worship (CLW) points: 80 credits required for graduation (at least 50 points must be CLW-A earned through worship events, up to 30 points may be CLW-B earned through community life events).
- FYS 1300 Freshman Year Seminar is required for all students enrolling at HCU with fewer than thirty (30) completed semester hours. College credit earned prior to high school graduation does not count toward the 30-hour requirement. Students enrolled in 100% online degree programs will take a three-hour course, ONLN 1300 Introduction to Online Learning, in place of FYS 1300.

**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 & PROCESSED BY THE OFFICE OF ACADEMIC RECORDS.**

STUDENT SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

DEAN OF COLLEGE \_\_\_\_\_ DATE \_\_\_\_\_

ACADEMIC ADVISOR \_\_\_\_\_ DATE \_\_\_\_\_

|                                     |             |
|-------------------------------------|-------------|
| Office of Academic Records Use Only |             |
| Processed by: _____                 | Date: _____ |