

Physics – Bachelor of Science
with Computational Physics Specialization
College of Science and Engineering

UHCL Transfer Guide with Texas Common Course Numbering System (TCCNS) for students transferring from a Texas Public College/University

Texas Core Curriculum Requirements (42 hours)

Communication 010 (6 hours) (Grade of C- or higher is required)

Texas Common Course:	UHCL Equivalent:
ENGL 1301 – Composition I	ENGL 1301 – Composition I
ENGL 1302 – Composition II or ENGL 2311 – Technical & Business Writing	ENGL 1302 – Composition II or ENGL 2311 – Intro to Professional Writing

Mathematics 020 (3 hours)

Texas Common Course:	UHCL Equivalent:
MATH 2413 - Calculus I	MATH 2413 - Calculus I

Life & Physical Science 030/090 (8 hours)

Texas Common Course:	UHCL Equivalent:
CHEM 1311/1111 or CHEM 1411 - General Chemistry I & Lab	CHEM 1311/1111 - General Chemistry I & Lab
CHEM 1312/1112 or CHEM 1412 - General Chemistry II & Lab	CHEM 1312/1112 - General Chemistry II & Lab

Language, Philosophy, and Culture 040 (3 hours)

Choose **one** course from your current college's Core Curriculum approved list for this category.

Creative Arts 050 (3 hours)

Choose **one** course from your current college's Core Curriculum approved list for this category.

American History 060 (6 hours)

Texas Common Course:	UHCL Equivalent:
HIST 1301 – US History I	HIST 1301 – US History I
HIST 1302 – US History II	HIST 1302 – US History II

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Government/Political Science 070 (6 hours)

Texas Common Course:	UHCL Equivalent:
GOVT 2305 – Federal Government	POLS 2305 – Federal Government
GOVT 2306 – Texas Government	POLS 2306 – Texas Government

Social & Behavioral Science 080 (3 hours)

Choose **one** course from your current college's Core Curriculum approved list for this category.

Component Area Option 090 (4 hours)

* Choose **two** courses from your current college's Core Curriculum approved list for this category.

Lower-Level Major Requirements (29 hours)

Texas Common Course:	UHCL Equivalent:
PHYS 2325/2125 or PHYS 2425 – University Physics I & Lab	PHYS 2425 – University Physics I & Lab
PHYS 2326/2126 or PHYS 2426 – University Physics II & Lab	PHYS 2426 – University Physics II & Lab
MATH 2414 – Calculus II	MATH 2414 – Calculus II
MATH 2315 or MATH 2415 – Calculus III	MATH 2315 – Calculus III
MATH 2305 – Discrete Mathematics	MATH 2305 – Discrete Mathematics
COSC 1336 or COSC 1436 – Programming Fundamentals I (<i>Python preferred</i>)	CSCI 1470 – Computer Science I
COSC 1337 or COSC 1437 – Programming Fundamentals II (<i>Java preferred</i>)	CSCI 1471 – Computer Science II
COSC 2336 or COSC 2436 – Programming Fundamentals III	CSCI 2315 - Data Structures

Transfer Guide Notes

* Any extra Texas Core classes completed may end up satisfying these—check with a [UHCL Transfer Advisor](#) prior to enrolling in any Component Area Option 090 courses.

Transfer Credit Limit

UHCL will accept up to **71 hours** of the transfer courses listed above toward this degree's requirements, however students may [apply to transfer](#) at any time. The courses listed above are only provided for those who are attempting to maximize course options at their current community college prior to transferring.

This bachelor's degree is 120 hours. The remaining upper-level requirements (**49 hours**) are to be completed through UHCL. The official requirements for this degree may be viewed in the [undergraduate catalog](#).