

## Physics - Bachelor of Science with Computational Physics Specialization *College of Science and Engineering*

### I. TEXAS CORE CURRICULUM REQUIREMENTS (42 hours)

Course Name	Status	TCCNS	UHCL
<b>Communication 010 (6 hours) (Grade of C- or higher is required)</b>			
English Composition I		ENGL 1301	WRIT 1301
English Composition II/Intro to Prof. Writing		ENGL 1302/ENGL 2311	WRIT 1302/WRIT 2311
<b>Mathematics 020 (3 hours) (Grade of C- or higher is required)</b>			
Calculus		MATH 2413	MATH 2413
<b>Life &amp; Physical Sciences 030/090 (8 hours) (Grade of C- or higher is required)</b>			
University Physics I & Lab		PHYS 2325/2125	PHYS 2325/2125
University Physics II & Lab		PHYS 2326/2126	PHYS 2326/2126
<b>Language, Philosophy, &amp; Culture 040 (3 hours)</b>			
Choose <b>one</b> course from your current college's Core Curriculum approved list for this category.		Any 040 coded class	Any 040 coded class
<b>Creative Arts 050 (3 hours)</b>			
Choose <b>one</b> course from your current college's Core Curriculum approved list for this category.		Any 050 coded class	Any 050 coded class
<b>American History 060 (6 Hours)</b>			
United States History I		HIST 1301	HIST 1301
United States History II		HIST 1302	HIST 1302
<b>Government/Political Sciences 070 (6 hours)</b>			
Federal Government		GOVT 2305	POLS 2305
Texas Government		GOVT 2306	POLS 2306
<b>Social &amp; Behavioral Sciences 080 (3 hours)</b>			
Choose <b>one</b> course from your current college's Core Curriculum approved list for this category.		Any 080 coded class	Any 080 coded class
<b>Component Area Option 090 (4 Hours)</b>			
* Public Speaking, Intro to Speech, or any 090	*	Any 090 coded class	Any 090 coded class
* Learning Frameworks or any 090	*	Any 090 coded class	Any 090 coded class

### II. MAJOR REQUIREMENTS (33 hours) (Grade of C- or higher is required)

Course Name	Status	TCCNS	UHCL
General Chemistry I		CHEM 1311/1111 or 1411	CHEM 1311/1111
General Chemistry II		CHEM 1312/1112 or 1412	CHEM 1312/1112
Calculus II		MATH 2414	MATH 2414
Calculus III		MATH 2315 or 2415	MATH 2315
Discrete Math		MATH 2305	MATH 2305
Computer Science I ( <i>Python preferred</i> )		COSC 1336 or 1436	CSCI 1470
Computer Science II ( <i>Java preferred</i> )		COSC 1337 or 1437	CSCI 1471
Data Structures		COSC 2336 or 2436	CSCI 2315

\* MATH 2412 or any additional core outside the usual core components may end up satisfying these, check with a UHCL transfer advisor prior to enrolling in the Component Area Option 090 courses. [www.uhcl.edu/academics/advising/transfer/advisers](http://www.uhcl.edu/academics/advising/transfer/advisers)

#### Transfer Credit Limit

UHCL will accept all **75 hours** for the transfer courses listed above **toward this particular degree's requirements**. Students may transfer to UHCL at any point, the courses listed above are only provided for those who are attempting to maximize course options at their current community college prior to transferring. [www.uhcl.edu/admissions/apply/transfer/how-to-apply](http://www.uhcl.edu/admissions/apply/transfer/how-to-apply)

**This Bachelor's degree is 120 hours.** The remaining course requirements (approximately **45 hours**) to be completed at UHCL for this degree may be viewed in the undergraduate catalog. [www.uhcl.edu/academics/resources/catalog](http://www.uhcl.edu/academics/resources/catalog)