

ACADEMIC ADVISING

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GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements

- 124 credit hours
- 45 upper-division credit hours (3000-4999 level)
- 2.0 CU cumulative GPA
- Residency: Last 30 credit hours of degree must be completed while registered in the College of Letters, Arts, and Sciences at UCCS

Student Responsibilities

Students are required to know and follow:

- All academic policies set forth by the University, College, and academic department in the UCCS Catalog: catalog.uccs.edu
- All course prerequisites designated by the University. Failure to meet course prerequisites may result in an administrative drop of the course from a student's schedule. See degree audit for course prerequisites within the academic major.

DEGREE REQUIREMENTS

Explore Physics: [B.S. in Physics | Department of Physics & Energy Science \(uccs.edu\)](http://www.uccs.edu/department-of-physics-energy-science)

Major Requirements			
Physics Major (40 hours)	Course/Area	Course Title	Credit Hours
The Physics major requires a minimum of 40 credit hours of PES course work, and an additional 30 hours of auxiliary coursework.	PES 1050	General Astronomy I	3
	PES 1060	General Astronomy II	3
	PES 1110	General Physics I	4
	PES 1120	General Physics II	4
	PES 1160	Advanced Physics Lab I	1
	PES 2130	General Physics III	3
	PES 2160	Advanced Physics Lab II	1
	PES 3130	Modern Physics	3
	PES 3170	Instrumentation Laboratory I	2
	PES 3180	Instrumentation Laboratory II	2
	PES 3210	Classical Mechanics	3
	PES 4810	Senior Physics Seminar	2
	Electives	<i>Complete 9 hours of upper-division (3000+ level) PES courses.</i>	
Requires a minimum of 21 credit hours of upper-division (3000+ level) PES course work.	Auxiliary Requirements		
	BIOL 1300/1310	General Biology: Organismic Biology and Lab	4
	BIOL 1350/1360	General Biology: Intro to the Cell and Lab	4
	CHEM 1401/1402	General Chemistry I and Lab	5
	CHEM 1411/1412	General Chemistry I and Lab	5
	MATH 1350	Calculus I	4
	MATH 1360	Calculus II	4
	MATH 2350	Calculus III	4
All PES courses must have a grade of "C" or better.	UCCS Teach Courses (33 hours)		
	UTED 1030	Inquiry Approaches/Lesson Plan Design for Secondary Math/Science Teaching	3
	UTED 2010	Knowing and Learning in Mathematics and Science	3
	UTED 3020	Classroom Interactions	3
	UTED 4710	Project-Based Instruction	3
	UTED 4720	Reading in the Content Area	3
	UTED 4730	Apprentice Teaching UCCS Teach and Seminar	12
	UTLS 3030	Perspectives on Science and Math	3
All auxiliary requirements must be completed in addition to the required major courses.	UTLS 3040	Science Research Methods	3
	Courses should be taken in the appropriate semester. See the four-year plan for details.		

General Education and Elective Requirements

Core Writing Requirement (6 hours)	<ul style="list-style-type: none"> ENGL 1310, 1308, or 1305 (<i>Students choosing ENGL 1305 must complete ENGL 1300 first.</i>) ENGL 1410 PORT 3000 (0 Credits) – Writing Portfolio 	
Reasoning Skills	<ul style="list-style-type: none"> MATH 1350 (included in auxiliary requirements) UTLS 3040 (included in UCCS Teach requirements) 	
Core Humanities (3 hours)	<ul style="list-style-type: none"> HUM 3990 <ul style="list-style-type: none"> This course also fulfills Navigate and one Writing Intensive course. 	
Natural Sciences Lab	<ul style="list-style-type: none"> CHEM 1402 (included in auxiliary requirements) 	
Oral Communication	<ul style="list-style-type: none"> UTED 4730 (<i>Apprentice Teaching</i>) 	
LAS Language other than English Requirement	Complete two semesters of a language other than English equivalent to 1010 & 1020 with high school, transfer, placement exam, or UCCS coursework. <i>Courses taken to fulfill this requirement may also count toward Compass Curriculum Explore - Arts, Humanities and Cultures or general electives. See degree audit for details.</i>	
Compass Curriculum (6 12 hours) <ul style="list-style-type: none"> Explore and Navigate courses must be outside major and area requirements Writing Intensive, Inclusiveness, and Sustainability courses can count towards other requirements within degree. 	Component	Course
	Gateway	GPS 1010
	Explore – Arts, Humanities and Cultures (2 courses)	See Degree Audit
	Explore – Society, Behavior and Health (2 courses)	<ul style="list-style-type: none"> UTED 1030 (included in UCCS Teach requirements) See Degree Audit
	Explore – Physical and Natural World (2 courses)	<ul style="list-style-type: none"> BIOL 1350 (included in auxiliary requirements) CHEM 1401 (included in auxiliary requirements)
	Navigate	HUM 3990 (included in LAS area requirements)
	Summit	UTED 4730 (included in UCCS Teach requirements)
	Writing Intensive Courses (WIC) (2 courses)	<ul style="list-style-type: none"> HUM 3990 (included in LAS area requirements) UTED 4720 (included in UCCS Teach requirements)
	Inclusiveness (2 courses)	See Degree Audit
Sustainability	See Degree Audit	

FOUR-YEAR DEGREE PLAN

Please note that this is an *example* degree program and your program may vary. **Students are responsible for completing all course prerequisites.**

Year One	✓	FALL	<i>Hours</i>	✓	SPRING	<i>Hours</i>
		ENGL 1310	3		ENGL 1410	3
		PES 1110/1160	5		PES 1120/2160	5
		MATH 1350	4		MATH 1360	4
		GPS 1010	3		UTED 1030	3
			3		Explore – Society, Behavior and Health (<i>Inclusiveness</i>)	3
		TOTAL	15		TOTAL	18

Year Two	✓	FALL	<i>Hours</i>	✓	SPRING	<i>Hours</i>
		PES 2130	3		PES 3130	3
		CHEM 1401/1402	5		CHEM 1411/1412	5
		MATH 2350	4		PES 1060	3
		PES 1050	3		UTED 3020	3
		UTED 2010	3		Arts, Humanities & Cultures (<i>Sustainability</i>)	3
		TOTAL	18		TOTAL	17

Year Three	✓	FALL	<i>Hours</i>	✓	SPRING	<i>Hours</i>
		PES 3170	2		PES 3180	2
		UTLS 3040 (Fall Only)	3		PES 3210	3
		UTED 4720 (Fall Only)	3		UTLS 3030 (Spring Only)	3
		BIOL 1300/1310	4		BIOL 1350/1360	4
		Explore – Arts, Humanities & Cultures (<i>Inclusiveness</i>)	3		Upper-Division (UD) PES Elective	3
		TOTAL	15		TOTAL	15

Year Four	✓	FALL	<i>Hours</i>	✓	SPRING	<i>Hours</i>
		PES 4810	2		UTED 4730	12
		UD Physics Elective	3			
		UD Physics Elective	3			
		UTED 4710	3			
		HUM 3990	3			
		TOTAL	14		TOTAL	12

NOTE: Students must complete all course requirements other than UTED 4730 before the final semester.