

ACADEMIC ADVISING

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GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements

- 133 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
Requires a minimum of 21 credit hours of upper-division (3000+ level) PES course work.	PES 3210	Classical Mechanics	3
	PES 4810	Senior Physics Seminar	2
	Electives	Complete 9 hours of upper-division (3000+ level) PES courses.	9
All PES courses must have a grade of "C" or better.	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 auxiliary requirements must be completed in addition to the required major courses.			
UCCS Teach Courses (33 hours)	Course/Area	Course Title	Credit Hours
A grade of "B-" or better must be earned in all Education courses.	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
Courses should be taken in the appropriate semester. See the four-year plan for details.	UTED 4730	Apprentice Teaching UCCS Teach and Seminar	12
	UTLS 3030	Perspectives on Science and Math	3
	UTLS 3040	Science Research Methods	3

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) 	
Area Requirements (18 hours) <ul style="list-style-type: none"> Maximum 2 courses from any one discipline may be applied to the area requirements 	<ul style="list-style-type: none"> Humanities – 9 credit hours of which 3 credits must be HUM 3990. Social Sciences – 9 credit hours Natural Sciences – CHEM 1401/1402 & CHEM 1411/1412 (included in auxiliary requirements) <p>NOTE: Cannot select courses from primary major courses for area requirements.</p>	
Oral Communication, Cultural Diversity, and Global Awareness Requirements	One course from each list (see degree audit). <i>All courses that fulfill these requirements may also count towards other general education or major requirements.</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 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	See Degree Audit
	Explore – Society, Behavior and Health	UTED 1030
	Explore – Physical and Natural World	BIOL 1350 (included in auxiliary requirements)
	Navigate	HUM 3990 (included in LAS area requirements)
	Summit	UTED 4730 (included in UCCS Teach requirements)
	Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> HUM 3990 (included in LAS area requirements) UTED 4720 (included in UCCS Teach requirements)
	Inclusiveness	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	Hours	✓	SPRING	Hours
		ENGL 1310	3		ENGL 1410	3
		PES 1110/1160	5		PES 1120/2160	5
		GPS 1010	3		Explore – Arts, Humanities & Cultures Course	3
		MATH 1350	4		MATH 1360	4
		Social Science Elective (<i>Global Awareness/Inclusiveness</i>)	3		UTED 1030	3
		TOTAL	18		TOTAL	18

Year Two	✓	FALL	Hours	✓	SPRING	Hours
		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		Humanities Elective	3
		TOTAL	18		TOTAL	17

Year Three	✓	FALL	Hours	✓	SPRING	Hours
		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
		HUM 3990	3		Upper-Division (UD) PES Elective	3
		TOTAL	15		Social Science Elective (<i>Sustainability</i>)	3
		TOTAL	15		TOTAL	18

Year Four	✓	FALL	Hours	✓	SPRING	Hours
		PES 4810	2		UTED 4730	12
		UD Physics Elective	3			3
		UD Physics Elective	3			
		UTED 4710	3			
		Humanities Elective	3			
		Social Science Elective (<i>Cultural Diversity</i>)	3			
		TOTAL	17		TOTAL	12

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