

ACADEMIC ADVISING

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GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements

- 120 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				
BS Physics Major (51-53 hours)	Course/Area	Course Title	Credit Hours	
<ul style="list-style-type: none"> • Requires a minimum of 51 to 53 credit hours of PES course work, and an additional 28 to 34 hours of auxiliary coursework. • Requires a minimum of 20 to 25 credit hours of upper-division (3000+ level) PES course work, depending on which option is chosen. • All PES courses must be completed with a grade of "C" or better. 	PES 1110	General Physics I – Calculus Based	4	
	PES 1120	General Physics II	4	
	PES 1160	Advanced Physics Lab I – Calculus Based	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 3310	Principles of Electricity & Magnetism	3	
	PES 3410	Thermodynamics and Statistical Mechanics	3	
	PES 4170	Optics Lab	2	
	PES 4810	Senior Physics Seminar	2	
Auxiliary Requirements				
<p>*NOTE: Energy Science also requires the completion of ECON 1010 and GEOL 1010.</p>	CHEM 1401/1402	General Chemistry I and Lab I	5	
	CHEM 1411/1412	General Chemistry II and Lab II	5	
	Computer Science	<i>Complete one of the following:</i> CS 1090, CS 1120, CS 1150, MAE 1090, PES 3140	3	
	MATH 1350	Calculus I	4	
	MATH 1360	Calculus II	4	
	MATH 2350	Calculus III	4	
	MATH 3400	Differential Equations	3	
	ECON 1010	Introduction to Microeconomics (<i>Energy Science only</i>)	(3)	
	GEOL 1010	Physical Geology (<i>Energy Science only</i>)	(3)	
	Traditional (18 hours) all UD		Energy Science (19 hours)*	
	PES 3250 (3 credit hours)		PES 2500 (3)	
	PES 3320 (3)		ECON 1010 (3)	
	PES 4250 (3)		GEOL 1010 (4)	
	PES 4510 (3)		PES 4150 (2)	
	PES Elective – PES 3060, 3650, 3950, 3970, 4150, 4260, 4300, 4460, 4490, 4600, 4720, OR 4850		PES 4460 (3)	
	MATH elective 3100 or higher		3 Technical Courses – ENSC 3610, 4800 or PES 4800; GEOL 3700; GES 3060, 3100, 3200, 4090; PES 3320, 3650, OR 3670	
			2 Technical Courses – CHEM 4101, 4111; CS 3160, 4600, 4720; ECE 2210, 3020, 4020; MATH 3810, 4450, 4470; PES 4260, 4470, 4480, OR 4490	

General Education and Elective Requirements

Core Writing Requirement (9 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 TCID 2090 PORT 3000 (0 Credits) – Writing Portfolio 																				
Reasoning Skills	<ul style="list-style-type: none"> MATH 1350 (included in auxiliary requirements) PES 4170 (included in major 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 or 1412 																				
Oral Communication	<ul style="list-style-type: none"> PES 4810 																				
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 (15 hours) <ul style="list-style-type: none"> Explore and Navigate courses must be outside major requirements Writing Intensive, Inclusiveness, and Sustainability courses can count towards other requirements within degree 	<table border="1"> <thead> <tr> <th>Component</th> <th>Course</th> </tr> </thead> <tbody> <tr> <td>Gateway Program Seminar</td> <td>GPS 1010</td> </tr> <tr> <td>Explore – Arts, Humanities and Cultures (2 courses)</td> <td>See Degree Audit</td> </tr> <tr> <td>Explore – Society, Behavior and Health (2 courses)</td> <td>See Degree Audit</td> </tr> <tr> <td>Explore – Physical and Natural World (2 courses)</td> <td> <ul style="list-style-type: none"> CHEM 1401 (included in auxiliary requirements) CHEM 1411 (included in auxiliary requirements) </td> </tr> <tr> <td>Navigate</td> <td>HUM 3990 (included in LAS gen ed requirements)</td> </tr> <tr> <td>Summit</td> <td>PES 4810 (included in major requirements)</td> </tr> <tr> <td>Writing Intensive Courses (WIC) (2 courses) <i>Must include one upper-division (3000+ level)</i></td> <td> <ul style="list-style-type: none"> HUM 3990 (included in LAS gen ed requirements) See Degree Audit </td> </tr> <tr> <td>Inclusiveness (2 courses)</td> <td>See Degree Audit</td> </tr> <tr> <td>Sustainability</td> <td>See Degree Audit</td> </tr> </tbody> </table>	Component	Course	Gateway Program Seminar	GPS 1010	Explore – Arts, Humanities and Cultures (2 courses)	See Degree Audit	Explore – Society, Behavior and Health (2 courses)	See Degree Audit	Explore – Physical and Natural World (2 courses)	<ul style="list-style-type: none"> CHEM 1401 (included in auxiliary requirements) CHEM 1411 (included in auxiliary requirements) 	Navigate	HUM 3990 (included in LAS gen ed requirements)	Summit	PES 4810 (included in major requirements)	Writing Intensive Courses (WIC) (2 courses) <i>Must include one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> HUM 3990 (included in LAS gen ed requirements) See Degree Audit 	Inclusiveness (2 courses)	See Degree Audit	Sustainability	See Degree Audit
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General Electives (7-14 hours)	Complete additional courses to meet total and upper-division requirements for your degree program.																				

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
		PES 1110/1160	5		PES 1120/2160	5
		MATH 1350	4		MATH 1360	4
		GPS 1010	3		Explore – Arts, Humanities and Cultures Course	3
		TOTAL	15		TOTAL	15

Year Two	✓	FALL	Hours	✓	SPRING	Hours
			PES 2130	3		PES 3130
		CHEM 1401/1402	5		CHEM 1411/1412	5
		MATH 2350	4		MATH 3400	3
		Explore – Society, Behavior and Health Course	3		Computer Science Course	3
					Explore – Arts, Humanities and Cultures Course	3
		TOTAL	15		TOTAL	17

Year Three	✓	FALL	Hours	✓	SPRING	Hours
			TCID 2090	3		PES 3180 (SPRING ONLY)
		PES 3170 (FALL ONLY)	2		PES 3210 (SPRING ONLY)	3
		PES 3310 (FALL ONLY)	3		PES 3410 (SPRING ONLY)	3
		PES 4170 (FALL ONLY)	2		Physics Option Course	3
		Physics Option Course	3		General Elective (<i>Inclusiveness</i>)	3
		Explore – Society, Behavior and Health Course	3			
		TOTAL	16		TOTAL	14

Year Four	✓	FALL	Hours	✓	SPRING	Hours
			Physics Option Course	3		PES 4810
		Upper-Division (UD) Physics Option Course	3		UD Physics Option Course	3
		UD Physics Option Course	3		UD General Elective or Physics Option Course (Solid State option)	2
		HUM 3990	3		UD General Elective (<i>Writing Intensive</i>)	3
		UD General Elective (<i>Inclusiveness</i>)	3		UD General Elective (<i>Sustainability</i>)	3
		TOTAL	15		TOTAL	13