

## ACADEMIC ADVISING

*Partnering with students to successfully navigate college*

**Location:** Main Hall 208

**Phone:** 719.255.3260

**Website:** [Academic Advising](http://www.uccs.edu/academic-advising)

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- Appointments: [www.uccs.edu/advising/current-students](http://www.uccs.edu/advising/current-students)

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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: At least 30 credit hours of the 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](http://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"> <li>• Requires a minimum of 51 to 53 credit hours of course work, depending on which Option is chosen.</li> <li>• Major requirements include 33 hours of Core PES courses, 28 to 34 hours of auxiliary coursework, and 18-20 hours of Option courses.</li> <li>• Requires a minimum of 20 to 34 credit hours of upper-division (3000+ level) PES course work, depending on which option is chosen.</li> <li>• All PES courses must be completed with a grade of "C" or better.</li> <li>• All auxiliary courses must be completed with a grade of "C-" or better.</li> </ul>	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 ( <i>alternate even years – fall; alternate odd years – spring</i> )	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 ( <i>alternate even years – fall; alternate odd years – spring</i> )	2	
<b>Auxiliary Requirements</b>				
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		
<b>Traditional Option (18 hours)</b>		<b>Energy Science Option (19 hours)<sup>±</sup></b>		
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)		
MATH elective 3100 or higher		PES 4250 (3)		
PES Elective – PES 3060, 3650, 3950, 3970, 4150, 4260, 4300, 4460, 4490, 4600, 4720, 4850		3 Technical Courses – ENSC 3610, 4800 or PES 4800; GEOL 3700; GES 3060, 3100, 3200, 4090; PES 3320, 3650, 3670		
		2 Technical Courses – CHEM 4101, 4111; CS 3160, 4600, 4720; ECE 2210, 3020, 4020; MATH 3810, 4450, 4470; PES 4260, 4470, 4480, 4490		

## General Education and Elective Requirements

<b>Core Writing Requirement</b> (9 hours)	<ul style="list-style-type: none"> <li>ENGL 1310, 1308, or 1305 (<i>Students choosing ENGL 1305 must complete ENGL 1300 first.</i>)</li> <li>ENGL 1410 or TCID 2090</li> <li>Writing Portfolio – PORT 3000 (0 credits) or PORT 4000 (1 credit) or alternative – See Degree Audit</li> </ul>																				
<b>Reasoning Skills</b>	<ul style="list-style-type: none"> <li>MATH 1350 (included in auxiliary requirements)</li> <li>PES 4170 (included in major requirements)</li> </ul>																				
<b>Core Humanities</b> (3 hours)	<ul style="list-style-type: none"> <li>HUM 3990                             <ul style="list-style-type: none"> <li>This course also fulfills Navigate and one Writing Intensive course.</li> </ul> </li> </ul>																				
<b>Natural Sciences Lab</b>	<ul style="list-style-type: none"> <li>CHEM 1402 or 1412</li> </ul>																				
<b>Oral Communication</b>	<ul style="list-style-type: none"> <li>PES 4810</li> </ul>																				
<b>LAS Language other than English Requirement</b>	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>																				
<b>Compass Curriculum</b> (15 hours)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">Component</th> <th>Course</th> </tr> </thead> <tbody> <tr> <td><b>Gateway Program Seminar</b></td> <td>GPS 1010</td> </tr> <tr> <td><b>Explore – Arts, Humanities and Cultures (2 courses)</b></td> <td>See Degree Audit</td> </tr> <tr> <td><b>Explore – Society, Behavior and Health (2 courses)</b></td> <td>See Degree Audit</td> </tr> <tr> <td><b>Explore – Physical and Natural World (2 courses)</b></td> <td> <ul style="list-style-type: none"> <li>CHEM 1401 (included in auxiliary requirements)</li> <li>CHEM 1411 (included in auxiliary requirements)</li> </ul> </td> </tr> <tr> <td><b>Navigate</b></td> <td>HUM 3990 (included in LAS gen ed requirements)</td> </tr> <tr> <td><b>Summit</b></td> <td>PES 4810 (included in major requirements)</td> </tr> <tr> <td><b>Writing Intensive Courses (WIC) (2 courses)</b> <i>Must include one upper-division (3000+ level)</i></td> <td> <ul style="list-style-type: none"> <li>HUM 3990 (included in LAS gen ed requirements)</li> <li>See Degree Audit</li> </ul> </td> </tr> <tr> <td><b>Inclusiveness (2 courses: 1 Global and 1 Local)</b></td> <td>See Degree Audit</td> </tr> <tr> <td><b>Sustainability</b></td> <td>See Degree Audit</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>Explore and Navigate courses must be taken in departments other than the major.</li> <li>Writing Intensive, Inclusiveness, and Sustainability courses may count toward other requirements within the degree.</li> </ul>	Component	Course	<b>Gateway Program Seminar</b>	GPS 1010	<b>Explore – Arts, Humanities and Cultures (2 courses)</b>	See Degree Audit	<b>Explore – Society, Behavior and Health (2 courses)</b>	See Degree Audit	<b>Explore – Physical and Natural World (2 courses)</b>	<ul style="list-style-type: none"> <li>CHEM 1401 (included in auxiliary requirements)</li> <li>CHEM 1411 (included in auxiliary requirements)</li> </ul>	<b>Navigate</b>	HUM 3990 (included in LAS gen ed requirements)	<b>Summit</b>	PES 4810 (included in major requirements)	<b>Writing Intensive Courses (WIC) (2 courses)</b> <i>Must include one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> <li>HUM 3990 (included in LAS gen ed requirements)</li> <li>See Degree Audit</li> </ul>	<b>Inclusiveness (2 courses: 1 Global and 1 Local)</b>	See Degree Audit	<b>Sustainability</b>	See Degree Audit
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<b>General Electives (10-17 hours)</b>	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.**

	✓	FALL	Hours	✓	SPRING	Hours
	<b>Year One</b>		ENGL 1310	3		ENGL 1410 or TCID 2090
		PES 1110/1160	5		PES 1120/2160	5
		MATH 1350	4		MATH 1360	4
		GPS 1010	3		Explore – Arts, Humanities and Cultures Course	3
		<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>

	✓	FALL	Hours	✓	SPRING	Hours
	<b>Year Two</b>		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
		<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>17</b>

	✓	FALL	Hours	✓	SPRING	Hours
	<b>Year Three</b>		PES 3170 ( <i>fall only</i> )	2		PES 3180 ( <i>spring only</i> )
		PES 3310 ( <i>fall only</i> )	3		PES 3210 ( <i>spring only</i> )	3
		PES 4170 ( <i>fall only</i> )	2		PES 3410 ( <i>spring only</i> )	3
		Option Course	3		Option Course	3
		Explore – Society, Behavior and Health Course	3		General Elective ( <i>Inclusiveness</i> )	3
		General Elective ( <i>Writing Intensive</i> )	3			
		<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>14</b>

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