

## Physical Science, A.S.

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### Requirements

Students interested in a physical science are encouraged to earn a baccalaureate degree (BS). The AS-PHSC degree is meant to prepare students on the path to a physical science baccalaureate degree (BS) such as geology (BS-GEOL), physics (BS-PHYS), or chemistry (BS-CHEM).

#### Total Program Credits: 60

General Education Requirements:		37 Credits
	<a href="#">ENGL 1010</a> Introduction to Academic Writing CC	3
or	<a href="#">ENGL 1005</a> Literacies and Composition Across Contexts CC (5)	
	<a href="#">ENGL 2010</a> Intermediate Academic Writing CC	3
	<a href="#">MATH 1050</a> College Algebra QL	4
or	<a href="#">MATH 1055</a> College Algebra with Preliminaries QL (5)	
Complete one of the following:		3
	<a href="#">HIST 2700</a> US History to 1877 AS (3)	
and	<a href="#">HIST 2710</a> US History since 1877 AS (3)	
	<a href="#">HIST 1700</a> American Civilization AS (3)	
	<a href="#">HIST 1740</a> US Economic History AS (3)	
	<a href="#">POLS 1000</a> American Heritage SS (3)	
	<a href="#">POLS 1100</a> American National Government AS (3)	
Complete the following:		
	<a href="#">PHIL 2050</a> Ethics and Values IH	3
or	<a href="#">PHIL 205G</a> Ethics and Values IH GI (3)	
	<a href="#">HLTH 1100</a> Personal Health and Wellness TE	2
or	<a href="#">EXSC 1097</a> Fitness for Life TE (2)	
Distribution Courses		
Biology		3
Physical Science: Complete one of the following pair of courses		7
	<a href="#">PHYS 2210</a> Physics for Scientists and Engineers I PP (4)	
and	<a href="#">PHYS 2220</a> Physics for Scientists and Engineers II PP (4)	
or	<a href="#">CHEM 1210</a> Principles of Chemistry I PP (4)	
and	<a href="#">CHEM 1220</a> Principles of Chemistry II PP (4)	
or	<a href="#">GEO 1010</a> Introduction to Geology PP (3)	
or	<a href="#">GEO 1030</a> Natural Disasters and the Environment PP (3)	
or	<a href="#">GEO 1040</a> The Dinosaurian World PP (3)	
or	<a href="#">GEO 1050</a> Geology of National Parks PP (3)	
and	<a href="#">CHEM 1210</a> Principles of Chemistry I PP (4)	
Humanities		3
Fine Arts		3

Social/Behavioral Science		3
Discipline Core Requirements:		11 Credits
Complete one of the following		11
Recommended for students most interested in physics:		
<a href="#">MATH 1210</a>	Calculus I QL (4)	
<a href="#">MATH 1220</a>	Calculus II (4)	
<a href="#">PHYS 2215</a>	Physics for Scientists and Engineers I Lab (1)	
<a href="#">PHYS 2225</a>	Physics for Scientists and Engineers II Lab (1)	
Any 1000 or 2000 level PHYS elective (1)		
Recommended for students most interested in chemistry:		
<a href="#">CHEM 1215</a>	Principles of Chemistry I Laboratory (1)	
<a href="#">CHEM 1225</a>	Principles of Chemistry II Laboratory (1)	
<a href="#">CHEM 2310</a>	Organic Chemistry I (4)	
<a href="#">CHEM 2315</a>	Organic Chemistry I Laboratory (1)	
<a href="#">CHEM 2320</a>	Organic Chemistry II (4)	
<a href="#">CHEM 2325</a>	Organic Chemistry II Laboratory (1)	
Recommended for students most interested in earth science:		
<a href="#">CHEM 1215</a>	Principles of Chemistry I Laboratory (1)	
<a href="#">CHEM 1220</a>	Principles of Chemistry II PP (4)	
<a href="#">CHEM 1225</a>	Principles of Chemistry II Laboratory (1)	
<a href="#">GEO 1015</a>	Introduction to Geology Laboratory (1)	
<a href="#">GEO 1220</a>	Historical Geology (3)	
<a href="#">GEO 1225</a>	Historical Geology Laboratory (1)	
Elective Requirements:		12 Credits
Complete 12 credits from the following (not to include any course being used to fill one of the requirements above). Consult with an advisor to determine which courses best match your long-term educational and career goals.		12
<a href="#">CHEM 1210</a>	Principles of Chemistry I PP (4)	
<a href="#">CHEM 1215</a>	Principles of Chemistry I Laboratory (1)	
<a href="#">CHEM 1220</a>	Principles of Chemistry II PP (4)	
<a href="#">CHEM 1225</a>	Principles of Chemistry II Laboratory (1)	
<a href="#">CHEM 2310</a>	Organic Chemistry I (4)	
<a href="#">CHEM 2315</a>	Organic Chemistry I Laboratory (1)	
<a href="#">CHEM 2320</a>	Organic Chemistry II (4)	
<a href="#">CHEM 2325</a>	Organic Chemistry II Laboratory (1)	
<a href="#">ENVT 1110</a>	Introduction to Environmental Management PP (3)	
<a href="#">ENVT 2730</a>	Introduction to Soils (4)	
<a href="#">GEO 1010</a>	Introduction to Geology PP (3)	
or	<a href="#">GEO 1030</a> Natural Disasters and the Environment PP (3)	

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or	<a href="#">GEO 1040</a>	The Dinosaurian World PP (3)	
or	<a href="#">GEO 1050</a>	Geology of National Parks PP (3)	
	<a href="#">GEO 1080</a>	Introduction to Oceanography PP (3)	
	<a href="#">GEO 1220</a>	Historical Geology (3)	
	<a href="#">GEO 1225</a>	Historical Geology Laboratory (1)	
	<a href="#">GEO 2500</a>	Introduction to Field Geology	
	<a href="#">GEOG 1000</a>	Introduction to Physical Geography PP (3)	
	<a href="#">GEOG 1800</a>	Mapping the World with Geospatial Technology PP	
	<a href="#">MATH 1060</a>	Trigonometry QL (3)	
	<a href="#">MATH 1210</a>	Calculus I QL (4) (MATH 1060 is a prerequisite for this course.)	
	<a href="#">MATH 1220</a>	Calculus II (4)	
	<a href="#">MATH 2210</a>	Calculus III (3)	
	<a href="#">MATH 2270</a>	Linear Algebra (3)	
	<a href="#">MATH 2280</a>	Ordinary Differential Equations (3)	
	<a href="#">METO 1010</a>	Introduction to Meteorology PP (3)	
	<a href="#">METO 1060</a>	Fundamentals of Weather Forecasting PP (3)	
	<a href="#">PHYS 2210</a>	Physics for Scientists and Engineers I PP (4)	
	<a href="#">PHYS 2215</a>	Physics for Scientists and Engineers I Lab (1)	
	<a href="#">PHYS 2220</a>	Physics for Scientists and Engineers II PP (4)	
	<a href="#">PHYS 2225</a>	Physics for Scientists and Engineers II Lab (1)	
	<a href="#">STAT 1040</a>	Introduction to Statistics QL (3)	

### **Graduation Requirements:**

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

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### ***Graduation Plan***

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Semester 1	Course Title	Credit Hours
ENGL 1010 or ENGH 1005	Introduction to Academic Writing CC or Literacies and Composition Across Context CC	3
MATH 1050 or MATH 1055	College Algebra QL or College Algebra with Preliminaries QL	4
American Institutions		3
Humanities Distribution		3
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE or Fitness for Life TE	2
Semester total:		15
Semester 2	Course Title	Credit Hours
ENGL 2010	Intermediate Academic Writing CC	3
Biology Distribution		3
CHEM 1210	Principles of Chemistry I PP	4
CHEM 1215	Principles of Chemistry I Laboratory	1
Social/Behavioral Distribution		3
Semester total:		14
Semester 3	Course Title	Credit Hours
PHIL 2050 or PHIL 205G	Ethics and Values IH GI	3
Elective Requirement		3
MATH 1210	Calculus I QL	4
Fine Arts Distribution		3
Semester total:		13
Semester 4	Course Title	Credit Hours
MATH 1220	Calculus II	4
PHYS 2210	Physics for Scientists and Engineers I PP	4
PHYS 2215	Physics for Scientists and Engineers I Lab	1
Elective Requirement		4
Semester total:		13
Semester 5	Course Title	Credit Hours
PHYS 2220	Physics for Scientists and Engineers II PP	4
PHYS 2225	Physics for Scientists and Engineers II Lab	1
Semester total:		5
Degree total:		60