PHYSICS (B.A.)

Required course work includes the university requirements (see regulation J-3 (https://catalog.uidaho.edu/general-requirements-academic-procedures/j-general-requirements-baccalaureate-degrees/#j3)) and:

Code	Title	Hours
CHEM 111	General Chemistry I	3
CHEM 111L	General Chemistry I Laboratory	1
CHEM 112	General Chemistry II	4
CHEM 112L	General Chemistry II Laboratory	1
CS 120	Computer Science I	4
MATH 170	Calculus I	4
MATH 175	Calculus II	4
MATH 275	Calculus III	3
PHYS 200	Welcome to the Physics Major	1
PHYS 211	Engineering Physics I	3
PHYS 211L	Laboratory Physics I	1
PHYS 212	Engineering Physics II	3
PHYS 212L	Laboratory Physics II	1
PHYS 213	Engineering Physics III	3
PHYS 305	Modern Physics	3
PHYS 321	Analytical Mechanics	3
PHYS 341	Electromagnectic Fields I	3
PHYS 400	Seminar	2
Select 11 credits of upper-division physics courses		11
Select 6 credits of upper-division mathematics courses		6
Select one upper-division humanities course [1]		3
Select one upper-division social science course [1]		3
Select any upper-division course approved by student's advisor		4
Total Hours		**74**

Courses to total 120 credits for this degree

1

In addition to the minimum university-wide general education requirements.

Fall Term 1		**Hours**
ENGL 101	Writing and Rhetoric I	3
MATH 143	College Algebra	3
MATH 144	Precalculus II: Trigonometry	1
PHYS 200	Welcome to the Physics Major	1
Humanistic and Artistic Ways of Knowing Course		3
Oral Communication Course		3
Elective Course		1
	Hours	**15**
Spring Term 1		
CHEM 111	General Chemistry I	3
CHEM 111L	General Chemistry I Laboratory	1
ENGL 102	Writing and Rhetoric II	3
PHYS 211	Engineering Physics I	3
PHYS 211L	Laboratory Physics I	1
MATH 170	Calculus I	4
	Hours	**15**
Fall Term 2		
CHEM 112	General Chemistry II	4
PHYS 212	Engineering Physics II	3
PHYS 212L	Laboratory Physics II	1
CHEM 112L	General Chemistry II Laboratory	1
MATH 175	Calculus II	4
Social and Behavioral Ways of Knowing Course		3
	Hours	**16**
Spring Term 2		
CS 120	Computer Science I	4
MATH 275	Calculus III	3
PHYS 213	Engineering Physics III	3
PHYS 305	Modern Physics	3
1 credit Elective Course		1
	Hours	**14**
Fall Term 3		
PHYS 321	Analytical Mechanics	3
PHYS 341	Electromagnectic Fields I	3
MATH 310	Ordinary Differential Equations	3
American Diversity Course		3
UPDV Physics, Major Elective Course		3
	Hours	**15**
Spring Term 3		
UPDV Mathematics, Major Elective Course		3
UPDV Physics, Major Elective Course		3
International Course		3
Humanistic and Artistic Ways of Knowing Course		3
Social and Behavioral Ways of Knowing Course		3
	Hours	**15**
Fall Term 4		
UPDV Humanities, Major Elective Course		3
PHYS 400	Seminar	1
Elective Course		3
UPDV Physics, Major Elective Course		3
Elective Course		2
Elective Course		3
	Hours	**15**
Spring Term 4		
PHYS 400	Seminar	1
PHYS 492	Senior Research	1
UPDV Social Science, Major Elective Course		3
UPDV Physics, Major Elective Course		4
UPDV Approved Elective, Major Elective Course		4
Elective Course		2
	Hours	**15**
	Total Hours	**120**

The degree map is a guide for the timely completion of your curricular requirements. Your academic advisor or department may be contacted for assistance in interpreting this map. This map is not reflective of your academic history or transcript and it is not official notification of completion of degree or certificate requirements. Please contact the Registrar's Office regarding your official degree/certificate completion status.

1. Students are thoroughly trained in the various sub-disciplines of physics. They have mastered the principles of mechanics, quantum mechanics, electromagnetic fields, thermal statics, and some advanced topics in physics, such as astrophysics and computational physics.
2. Students can communicate effectively, both orally and in writing, their scientific observations and their interpretations of physical laws.

3. Students are intellectually prepared to partake in physics research in a meaningful way.