

University of Idaho
B.S. Physics - Applied Physics Emphasis Four-Year Sample Curriculum
(starting in an even-numbered year)

First Year - Fall Semester			
Course			Credit
ENGL	101	Writing and Rhetoric I	3
MATH	143	College Algebra	3
MATH	144	Analytic Trigonometry	1
PHYS	200	Physics Seminar	1
		Oral Communication Elective	2
		Humanties Elective	2
		Humanties Elective	3
Total Credits			15

First Year - Spring Semester			
Course			Credit
CS	120	Computer Science I	4
ENGL	102	Writing and Retoric II	3
MATH	170	Calculus I	4
PHYS	211	Engineering Physics I	3
PHYS	211L	Engineering Physics I Lab	1
Total Credits			15

Second Year - Fall Semester			
Course			Credit
CHEM	111	General Chemistry I	3
CHEM	111L	General Chemistry I Lab	1
MATH	175	Calculus II	4
PHYS	212	Engineering Physics II	3
PHYS	212L	Engineering Physics II Lab	1
		Social Science Elective	3
Total Credits			15

Second Year - Spring Semester			
Course			Credit
CHEM	112	General Chemistry II	3
CHEM	112L	General Chemistry II Lab	2
MATH	275	Calculus III	3
PHYS	213	Engineering Physics III	3
		American Diversity Course	3
		Social Science Elective	1
Total Credits			15

Third Year - Fall Semester			
Course			Credit
MATH	310	Ordinary Differential Equations	3
PHYS	305	Modern Physics	3
PHYS	321	Analytical Mechanics	3
		ENGINEERING/PHYS Elective	3
		Social Science Elective	3
Total Credits			15

Third Year - Spring Semester			
Course			Credit
MATH	330	Linear Algebra	3
PHYS	351	Introductory Quantum Mechanics I	3
		ENGINEERING/PHYS Elective	3
		ENGINEERING/PHYS Elective	3
		International Course	3
Total Credits			15

Fourth Year - Fall Semester			
Course			Credit
PHYS	371	Mathematical Physics	3
		ENGINEERING/PHYS Elective	3
PHYS	341	Electromagnetic Fields	3
PHYS	490	Research	2
		ENGINEERING/PHYS Elective	3
		ENGINEERING/PHYS Elective	3
Total Credits			17

Fourth Year - Spring Semester			
Course			Credit
		ENGINEERING/PHYS Elective	3
PHYS	411	Advanced Physics Lab	4
PHYS	490	Research	1
PHYS	492	Senior Research	1
		ENGINEERING/PHYS Elective	3
		ENGINEERING/PHYS Elective	3
Total Credits			15