

**University of Idaho**  
**B.S. Physics - Applied Physics Emphasis Four-Year Sample Curriculum**  
 2021-2022 (odd year start)

<b>First Year - Fall Semester</b>			
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
	Humanities Elective		2
	Humanities Elective		3
<b>Total Credits</b>			<b>15</b>

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

<b>Second Year - Fall Semester</b>			
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
<b>Total Credits</b>			<b>15</b>

<b>Second Year - Spring Semester</b>			
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
<b>Total Credits</b>			<b>15</b>

<b>Third Year - Fall Semester</b>			
Course			Credit
MATH 310	Ordinary Differential Equations		3
PHYS 305	Modern Physics		3
PHYS 341	Electromagnetic Fields		3
	ENGINEERING/PHYS Elective		3
	Social Science Elective		3
<b>Total Credits</b>			<b>15</b>

<b>Third Year - Spring Semester</b>			
Course			Credit
MATH 330	Linear Algebra		3
PHYS 411	Advanced Physics Lab		4
	ENGINEERING/PHYS Elective		3
	ENGINEERING/PHYS Elective		3
	International Course		3
<b>Total Credits</b>			<b>16</b>

<b>Fourth Year - Fall Semester</b>			
Course			Credit
PHYS 371	Mathematical Physics		3
	ENGINEERING/PHYS Elective		3
PHYS 490	Research		2
	ENGINEERING/PHYS Elective		3
	ENGINEERING/PHYS Elective		3
<b>Total Credits</b>			<b>14</b>

<b>Fourth Year - Spring Semester</b>			
Course			Credit
PHYS 321	Analytical Mechanics		3
PHYS 351	Introductory Quantum Mechanics		3
PHYS 490	Research		1
PHYS 492	Senior Research		1
	ENGINEERING/PHYS Elective		3
	ENGINEERING/PHYS Elective		3
<b>Total Credits</b>			<b>14</b>

(Updated 6/2021)