

B.S. DEGREE in PHYSICS+
with Physics Education Emphasis
Iowa State University

Semester 1	Freshman Year	Semester 2	
Critical Thinking and Comm. - Engl 150	3	Intro to Class. Physics II – Phys 242	5
Introductory Seminar - Phys 199	1	Calculus III - Math 265	4
Intro to Classical Physics I – Phys 241	5	Natural Science, e.g. General Chemistry I Chem 177+177L	5
Calculus II – Math 166	4	EDUC 204: Social Foundations of Education in the United States:	
Arts&Humanities + IP perspective*	3	Secondary Education	3
Library Instruction – Lib 160	1		
	<u>17</u>		<u>17</u>

Semester 3	Sophomore Year	Semester 4	
Intro to Modern Physics I – Phys 321	3	Intro to Modern Physics II – Phys 322	3
Intro Lab in Mod Phys I - Phys 321L	1	Introduction to Statistical Concepts and Methods - Stat 201	4
Elementary Differential Equations and Laplace Transforms – Math 267	4	Classical Mechanics - Phys 361	3
EDUC 202: Educational Technologies in the 7- 12 Classroom	3	WOVE Composition - Engl 250	3
PSYCH 230: Developmental Psychology	3	EDUC 406: Social Justice Education and	3
EDUC 280L: Pre-Student Teaching Experience I: Secondary Education	0.5	EDUC 333: Educational Psychology	3
EDUC 219: Orientation to Teacher Education: FCS, History, Math, Science and World Language and Cultures Majors	1		
Arts&Humanities- US History or Government **	3		19
	<u>18.50</u>		

Note, student applies to teacher ed program

Semester 5	Junior Year	Semester 6	Summer semester
Electricity and Magnet. I - Phys 364	3	Thermal Physics – Phys 304	3 Foreign Language (or Elective)
EDUC 380A: Pre-Student Teaching Experience	2	EDUC 419: Secondary Science Methods	3
EDUC 418: Secondary Science Methods I	3	Astro 120/150	3
EDUC 395: Teaching Disciplinary Literacy	3	SP ED 401: Teaching Secondary Student	3
Introduction to Partial Differential Equations - Math 385	3	Matrix/Lin. Algebra – Math 207	3
Foreign Language (or Elective)	4	Intermediate Lab for Secondary Physics Teachers - Phys 311T Seminar on Secondary School Physics - Phys 399	3
	<u>18</u>		<u>1</u>
			19

Semester 7	Senior Year	Semester 8	
Quantum Mechanics – Phys 480	3	EDUC 417B: Student Teaching	16
EDUC 480: Pre-Student Teaching Experience III	2		
English 314	3		
Social Science	3		
Arts&Humanities Electives	6		
	<u>17</u>		<u>16</u>