

**B.S. DEGREE in PHYSICS+**  
**with Science Communication Emphasis**  
**Iowa State University**

Semester 1	Freshman Year	Semester 2
Critical Thinking and Comm. - Engl 150	3	<b>Intro to Class. Physics II – Phys 242</b> 5
Introductory Seminar - Phys 199	R	<b>Calculus III - Math 265</b> 4
<b>Intro to Classical Physics I – Phys 241</b>	5	Social Science Choice 3
<b>Calculus II – Math 166</b>	4	Natural Science Choice -Chem 177+177L 5
Arts&Humanities + IP prespective*	3	17
Library Instruction – Lib 160	1	
	16	

Semester 1	Sophomore Year	Semester 2
WOVE Composition - Engl 250	3	<b>Intro to Modern Physics II – Phys 322</b> 3
<b>Intro to Modern Physics I – Phys 321</b>	3	<b>Intro Lab in Mod Phys II – Phys 322L</b> 1
<b>Intro Lab in Mod Phys I - Phys 321L</b>	1	<b>Classical Mechanics - Phys 361</b> 3
<b>Elementary Differential Equations and Laplace Transforms – Math 267</b>	4	<b>Introduction to Partial Differential Equations - Math 385</b> 3
<b>Introduction to Solar System Astronomy - Astro 342</b>	3	Humanities Choice 3
Humanities Choice	3	Social Science Choice 3
	17	16

Semester 1	Junior Year	Semester 2
<b>Science Communication - JL MC 347</b>	3	<b>Thermal Physics – Phys 304</b> 3
<b>Electricity and Magnet. I - Phys 364</b>	3	<b>Publicity Methods - PR 305</b> 3
English Proficiency Requirement - Engl 302, 305, 309 or 314	3	<b>Introduction to Astrophysics - Astro 346</b> 3
<b>Matrix/Lin. Algebra – Math 207/317</b>	3	Foreign Language (or Elective) 4(3)
Foreign Language (or Elective)	4(3)	Elective 3
	16(15)	16(15)

Semester 1	Senior Year	Semester 2
Electronics - Phys 310 (or elective)	4	Intermediate Laboratory – Phys 311 <sup>1</sup> 2
<b>Quantum Mechanics – Phys 480</b>	3	<b>Engineering Statistics - Stat 305</b> 3
<b>Journalism Elective<sup>2</sup></b>	3	<b>Journalism Elective<sup>2</sup></b> 3
Astro 344L <sup>1</sup>	3	Humanities Choice 3
Social Science Choice	3	Natural Science Choice 3
	16	14

\* Students should choose a course that satisfy both Arts& Humanities and International Prospective requirements

<sup>1</sup> Students must earn a minimum of two laboratory credits from Phys 311, 311T, 450L, 470L, Astro 344L or 450L.

<sup>2</sup> Students must earn 6 credits from JLMC 242, JLMC 307, JLMC 310, JLMC 497

Students in all ISU majors must complete a three-credit course in U.S. diversity, a three-credit course in international perspectives, 9 credits in Social Science, 8 credits in Natural Science and 12 credits in Arts and Humanities courses. LAS majors require a minimum of 120 credits, including a minimum of 45 credits at the 300/400 level. You must also complete the LAS foreign language requirement.