

## In-Depth Physics Major + Astronomy Minor (starting in odd-numbered year)

### First Year

Fall (17cr)	<input type="checkbox"/>	4	Physics 132	Matter, Light and Energy
	<input type="checkbox"/>	4	Math 171	Calculus I
	<input type="checkbox"/>	0	Physics 195	Seminar
	<input type="checkbox"/>	4	Computer Science 106	Intro to Scientific Computation and Modeling
	<input type="checkbox"/>	4	<i>Foreign Language #1</i>	
	<input type="checkbox"/>	1	<i>Interdisciplinary 149</i>	<i>First Year Seminar</i>
INT	<input type="checkbox"/>	3	<i>Interdisciplinary 150</i>	<i>Developing A Christian Mind</i>
	<input type="checkbox"/>	4	Physics 133	Mechanics and Gravity
Spring (17cr)	<input type="checkbox"/>	0	Physics 195	Seminar
	<input type="checkbox"/>	4	Math 172	Calculus II
	<input type="checkbox"/>	4	Astronomy 211	Planetary and Stellar Astronomy
	<input type="checkbox"/>	4	<i>Foreign Language #2</i>	
	<input type="checkbox"/>	1	<i>PE #1</i>	

This worksheet assumes that 2 years of high school foreign language have been completed.

### Second Year

Fall (16cr)	<input type="checkbox"/>	4	Physics 235	Electricity & Magnetism
	<input type="checkbox"/>	4	Math 271	Multivariable Calculus
	<input type="checkbox"/>	0	Physics 195	Seminar
	<input type="checkbox"/>	4	<i>History 151 or 152</i>	
	<input type="checkbox"/>	3	<i>English 101</i>	
INT	<input type="checkbox"/>	1	<i>PE #2</i>	
	<input type="checkbox"/>	3	<i>Cross Cultural Engagement</i>	
Spring (17cr)	<input type="checkbox"/>	4	Astronomy 212	Galactic Astronomy & Cosmology
	<input type="checkbox"/>	4	Physics 306	Intro to Quantum Physics
	<input type="checkbox"/>	4	Math 231	Differential Equations & Linear Algebra
	<input type="checkbox"/>	1	Physics 237	Einstein's Theory of Relativity
	<input type="checkbox"/>	0	Physics 195	Seminar
	<input type="checkbox"/>	3	<i>Bibl/Theol. Foundations I</i>	
<input type="checkbox"/>	1	<i>PE #3</i>		

### Third Year

Fall (15cr)	<input type="checkbox"/>	4	Physics 365	Thermodynamics and Statistical Mechanics
	<input type="checkbox"/>	3	Physics 375	Quantum Mechanics I
	<input type="checkbox"/>	2	Astronomy 384	Modern Observational Astronomy
	<input type="checkbox"/>	0	Physics 195	Seminar
	<input type="checkbox"/>	3	<i>Philosophy 153</i>	
INT	<input type="checkbox"/>	3	<i>Rhetoric in Culture</i>	
	<input type="checkbox"/>	3	<i>Elective</i>	
Spring (17cr)	<input type="checkbox"/>	3	Physics 246	Waves, Optics, & Optical Technology
	<input type="checkbox"/>	3	Physics 376	Quantum Mechanics II
	<input type="checkbox"/>	2	Physics 379	Advanced Quantum Physics Laboratory
	<input type="checkbox"/>	0	Physics 195	Seminar
	<input type="checkbox"/>	3	<i>Persons in Community</i>	
	<input type="checkbox"/>	3	<i>Literature</i>	
<input type="checkbox"/>	3	<i>Bibl/Theol. Foundations II</i>		

### Fourth Year

Fall (16cr)	<input type="checkbox"/>	4	Physics 335	Classical Mechanics
	<input type="checkbox"/>	3	Physics 345	Electromagnetism
	<input type="checkbox"/>	2	Physics 339	Advanced Classical Mechanics Laboratory
	<input type="checkbox"/>	0	Physics 195	Seminar
	<input type="checkbox"/>	4	Math 333 <i>or core</i>	Partial Differential Equations
INT	<input type="checkbox"/>	3	<i>Global &amp; Historical Studies</i>	
	<input type="checkbox"/>	3	<i>Elective</i>	
Spring (16cr)	<input type="checkbox"/>	1	Astronomy 395	Astronomy Research & Writing
	<input type="checkbox"/>	0	Physics 195	Seminar
	<input type="checkbox"/>	3	Phys 346	Advanced Optics
	<input type="checkbox"/>	1	Phys 347	Relativistic Electrodynamics
	<input type="checkbox"/>	2	Phys 349	Advanced Electromagnetism and Optics Laboratory
	<input type="checkbox"/>	3	<i>Integrative Studies</i> or Math 333	
<input type="checkbox"/>	3	<i>Societal Structures</i>		
<input type="checkbox"/>	3	<i>Arts</i>		

