

## Double Major in Physics & Astronomy/Astrophysics

Year	Autumn Semester	Credit hours	Comment		Spring Semester	Credit Hours	Comment
<b>1</b>	Physics 1270	5	Intro Physics I		Physics 1271	5	Intro Physics I
	Math 1151	5	Calculus I		Math 1152	5	Calculus II
	ASC 1100	1	Survey		CSE 1222 <sup>1</sup>	3	C++ Programming
	Astro 2895	1	Seminar		World Lang. 2	4	
	World Lang. 1	4					
	<b>Total Hours</b>	<b>16</b>			<b>Total Hours</b>	<b>17</b>	
<b>2</b>	Physics 2300	4	Mechanics I		Physics 2301	4	Mechanics II
	Physics 2095	1	Seminar		Physics 3700	3	Data Ana. Lab
	Math 2153	4	Calculus III		Math 2415 <sup>2</sup>	3	Diff. Equations
	Astro 2291	3	Intro Astrophysics I		Astro 2292	3	Intro Astrophysics II
	World Lang. 3	4			Math 2568 <sup>2</sup>	3	Linear Algebra
	<b>Total Hours</b>	<b>16</b>			<b>Total Hours</b>	<b>16</b>	
<b>3</b>	Physics 5500	4	Quantum I		Physics 5501	4	Quantum II
	Physics 4700 <sup>4</sup>	3	Electronics Lab		Physics 5400	4	E&M
	Astro 3350	3	Methods of Observation		Astro 5681 <sup>3</sup>	3	Stellar Evolution
	Gen Ed	3			Gen Ed	3	
	Gen Ed	3			Gen Ed	3	
	<b>Total Hours</b>	<b>16</b>			<b>Total Hours</b>	<b>17</b>	
<b>4</b>	Physics 5300	4	Theoretical Mech.		Physics 5600	4	Statistical Mech.
	Physics 5700	3	Senior Lab		Physics Elective <sup>5</sup>	4	
	Gen Ed	3			Gen Ed	3	
	Gen Ed	3			Gen Ed	3	
	Gen Ed	3					
	<b>Total Hours</b>	<b>16</b>			<b>Total Hours</b>	<b>14</b>	

Courses in yellow are only offered in the term shown

<sup>1</sup> or CSE 1223 or CSE 1224 or Astronomy 1221

<sup>2</sup> Math 5520H can be taken in place Math 2415 and 2568

<sup>3</sup> Either Astronomy 5681 or 5682 must be taken

<sup>4</sup> or Physics 5680 (Big Data Analytics) or Physics 5810 (Computational Physics)

<sup>5</sup> Physics Elective options are Physics 3470, 5261, Physics 5680 (if not taken as a lab),

Physics 5810 (if not taken as a lab), and Physics 68xx

Courses that count exclusively toward Physics		Courses that count exclusively toward astronomy		Courses that count toward both	
Physics 2095	1	Astro 2291	3	Physics 2300	4
Physics 3700	3	Astro 2292	3	Physics 2301	4
Physics 4700	3	Astro 3350	3	Physics 5400	4
Physics 5300	4	Astro 5681	3	Physics 5500	4
Physics 5600	4	Math 2568	3	Physics 5501	4
Physics 5700	3	Math 2415	3		
Physics Elective	4				
<b>Total</b>	<b>22</b>	<b>Total</b>	<b>18</b>	<b>Total</b>	<b>20</b>