Astronomy and Astrophysics & Physics Double Major (Honors)

Sample Academic Plan for students beginning in Math 1151										
Year	Autumn Semester	Credit hours	Course Title	Spring Semester	Credit Hours	Course Title				
1	ArtsSci 1100.01H	1	Honors Survey	Astron 1221 or	3	Programming Req.				
	Astron 2895	1	Seminar	CSE 122x^		see note below				
	GenEd 1201	1	GE Launch Seminar	Math 1152*	5	Calculus II				
	Math 1151*	5	Calculus I	Physics 1251H ^{%#}	5	Honors Intro Physics II				
	Physics 1250H [%]	5	Honors Intro Physics I	World Lang. 2	4					
	World Lang. 1	4								
	Total Hours	17		Total Hours	17					
2	Astron 2291	3	Intro Astrophysics I	Astron 2292	3	Intro Astrophysics II				
	Math 2153*	4	Calculus III	Math 2415*	3	Differential Equations				
	Physics 2095	1	Seminar	Math 2568*	3	Linear Algebra				
	Physics 2300 [#]	4	Mechanics I	Physics 2301 [#]	4	Mechanics II				
	World Lang. 3	4		Gen Ed Course	3					
	Total Hours	16		Total Hours	16					
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3	Astron 3350	3	Methods of Observation	Gen Ed Course or	3	See note below				
	Physics 3700	3	Data Analysis Lab	Astron 5xxx ^{&}						
	Physics 5400H	4	Honors E&M I	Physics 5401H or	4	Honors E&M II				
	Physics 5500H	4	Honors Quantum I	Physics 5501H		Honors Quantum II				
	Targeted Elective†	3		Targeted Elective†	3					
				Gen Ed Course	3					
				Gen Ed Course	3					
	Total Hours	17		Total Hours	16					
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	Gen Ed Course or	3	See note below	Gen Ed Course or	3	See note below				
	Astron 5xxx ^{&}			Astron 5xxx ^{&}						
	Physics 5600	4	Statistical Mechanics	Physics 5700	3					
	3rd Lab Course [@]	3		Targeted Elective†	3					
	Targeted Elective†	3		Gen Ed Course	3					
	Gen Ed Course	3		Gen Ed Course	3					
	GenEd 4001	1	GE Reflection Seminar	Gen Ed Course	3					
	Total Hours	17		Total Hours	18					

Degree Hours 134 (121 minimum required)

Courses in YELLOW are only offered in the term shown (i.e., offered in Autumn only or in Spring only)

NOTE: this is **only one of many** possible ways to move through the curriculum. Consult with an academic advisor to develop and refine an academic plan that is appropriate for you.

Details on symbols (* %^#@& †) and a breakdown of which courses count toward each major to satisfy university rules can be found on the next page.

Astro only		Both Majors		Physics Only	
Astron 2291	3	Physics 2300	4	Physics 2095	1
Astron 2292	3	Physics 2301	4	3rd Lab Course	3
Astron 2895	1	Physics 3700	3	Physics 5700	3
Astron 3350	3	Physics 5400	4	Targeted Elective†	3
Astron 5xxx	3	Physics 5500	4	Targeted Elective†	3
Math 2415	3	Physics 5501H/5401H	4	Targeted Elective†	3
Math 2568	3			Targeted Elective†	3
Physics 5600	4				
Total	23	Total	23	Total	19

^{*}This "standard" calculus sequence has many acceptable variations. Consult with your academic advisor if you have already taken or wish to take a different set of courses.

[%]Physics 1270-1271 is a version of the introductory Physics courses specifically intended for Physics and Astro majors. The Physics 1250-1251, 1250H-1251H, 1260-1261, and 1270-1271 series are all considered to be equivalent. Physics 1250 and 1251 are offered year-round (Autumn Spring, Summer), but the others are only offered once per year in Autumn-Spring.

[^]Astronomy 1221 (Astronomy Data Analysis), CSE 1222 (C++), CSE 1223 (Java), or CSE 1224 (Python). Students who have changed majors from Engineering may substitute Engr 1221 or Engr 1281H.

[#]Physics 1271, 2300, and 2301 each require a grade of C+ or higher to move on in major coursework.

[®] 3rd Lab Requirement can be satisfied by Physics 4700 (Electronics Lab), Physics 5680 (Big Data Analytics in Physics), or Physics 5810 (Computational Physics). 4700 is offered every Autumn and Spring; 5680 is offered Autumn only; 5810 is offered Spring only and is 4 credits instead of 3.

[&]Only one Astron 5xxx course is required: 5205 (Planetary Science) is offered in odd-year Springs; 5681 (Stellar Evolution) is offered in even-year Springs; 5682 (Cosmology) is offered every Autumn.

[†]Targeted Electives are courses not counting toward any other major, minor, certificate, or GE requirement that are graded A-E and are 2000-level or higher. Full details can be found here: https://physics.osu.edu/applied-physics-option-electives