

Astronomy and Astrophysics Major (Honors)

Sample Academic Plan for students beginning in Math 1150, 1149, or 1140 with Summer courses									
Year	Autumn Semester	Credit Hours	Course Title	Spring Semester	Credit Hours	Course Title	Summer Semester	Credit Hours	Course Title
1	ArtsSci 1100.01H	1	Hons. Survey	Astron 1221 or CSE 122x [^]	3	Programming see note below	Math 1152*	5	Calculus II
	Astron 2895	1	Seminar				Physics 1251 ^{%#}	5	Intro Phys. II
	GenEd 1201	1	Launch Sem.	Math 1151	5	Calculus I			
	Math 1150	5	Precalculus	Physics 1250 [%]	5	Intro Physics I			
	World Lang. 1	4		World Lang. 2	4				
	Gen Ed Course	3							
	Total Hours	15		Total Hours	17		Total Hours	10	
2	Astron 2291	3	Astrophys. I	Astron 2292	3	Astrophys. II			
	Math 2153*	4	Calculus III	Math 2415*	3	Diff. Eq.			
	Physics 2300 [#]	4	Mechanics I	Math 2568*	3	Linear Algebra			
	World Lang. 3	4		Physics 2301 [#]	4	Mechanics II			
				Physics 3700	3	Data Ana. Lab			
	Total Hours	15		Total Hours	16		Total Hours	0	
	3	Astron 3350	3	Meth. of Obs.	Gen Ed Course or Astron 5xxx ^{&}	3	See note below		
Physics 5400H		4	Hons. E&M I	Physics 5401H or Physics 5501H				4	Hons. E&M II Hons. Quant. II
Physics 5500H		4	Hons. Quant. I	Gen Ed Course	3				
Gen Ed Course		3		Gen Ed Course	3				
				Total Hours	13		Total Hours	0	
Total Hours		14							
4		Gen Ed Course or Astron 5xxx ^{&}	3	See note below	Gen Ed Course or Astron 5xxx ^{&}	3	See note below		
	Physics 5600	4	Stat. Mech.	Gen Ed Course	3				
	Gen Ed Course	3		Gen Ed Course	3				
	Free Elective [†]	3		GenEd 4001	1	Reflect. Sem.			
				Free Elective [†]	3				
	Total Hours	13		Total Hours	13		Total Hours	0	

Degree Hours 126 (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 Astro curriculum. Consult with an academic advisor to develop and refine an academic plan that is appropriate for you.

Students beginning in Math 1149 or Math 1140 will follow a similar plan:

If starting in Math 1149, replace Math 1150 in Autumn Year 1 with Math 1149 (3 cr.) + one Gen Ed Course (3 cr.)

If starting in Math 1140, replace Math 1150 in Autumn Year 1 with Math 1140 (4 cr.) and replace Math 1151 in Spring Year 1 with Math 1141 (4 cr.)

You may need to adjust later coursework to ensure you meet the 121-credit minimum for graduation.

Details on symbols (* % ^ # & †) can be found on the next page.

*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.

^oPhysics 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 1251, 2300, and 2301 each require a grade of C+ or higher to move on in major coursework.

[&]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.

[†] Free Electives are only required if a student needs to take extra courses in order to reach the minimum of 121 degree hours for the B.S. degree set by the College of Arts and Sciences. Students may also schedule Free Electives if they prefer to remain full-time (12+ credits) for a semester.