Astronomy & Astrophysics Major

Sample Academic Plan for students beginning in Math 1148 or 1120							
Year	Autumn Semester	Credit hours	Comment		Spring Semester	Credit Hours	Comment
1	ArtsSci 1100.10	1	Survey		Math 1149	3	Trigonometry
	Astron 2895	1	Seminar		World Lang. 2	4	
	GenEd 1201	1	GE Launch Seminar	1	Gen Ed Course	3	
	Math 1148	4	College Algebra	1	Gen Ed Course	3	
	World Lang. 1	4		<u> </u>	Gen Ed Course	3	
	Gen Ed Course	3					
	Total Hours	14			Total Hours	16	
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2	Astron 1221 or	3	Programming Req.		Math 1152*	5	Calculus II
	CSE 122x [^]	3	see note below	1	Physics 1271 ^{%#}	5	Intro Physics II
	Math 1151	5	Calculus I	1	Gen Ed Course	3	
	Physics 1270 [%]	5	Intro Physics I		Gen Ed Course	3	
	World Lang. 3	4					
	Total Hours	17			Total Hours	16	
3	Astron 2291	3	Intro Astrophysics I		Astron 2292	3	Intro Astrophysics II
	Math 2153*	4	Calculus III		Math 2415*	3	Differential Equations
	Physics 2300 [#]	4	Mechanics I		Math 2568*	3	Linear Algebra
	Physics 3700	3	Data Analysis Lab	<u> </u>	Physics 2301 [#]	4	Mechanics II
	Total Hours	14			Total Hours	13	
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4	Astron 3350	3	Methods of Observation	1	Physics 5400	4	E&M
	Physics 5500	4	Quantum Mechanics I	1	Physics 5501	4	Quantum Mechanics II
	Physics Elective ⁺	3	See note below		Physics Elective [†]	3	See note below
	or Astron 5xxx ^{&}				or Astron 5xxx ^{&}		Jee Hote Below
	Gen Ed Course	3			Gen Ed Course	3	
	Gen Ed Course	3			GenEd 4001	1	GE Reflection Seminar
	Total Hours	16			Total Hours	15	

Degree Hours 121 (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 1120 will follow a similar plan:

If starting in Math 1120, replace Math 1148 in Autumn Year 1 with Math 1120 (5 cr.) and replace Math 1149 in Spring Year 1 with Math 1121 (5 cr.). You will also move one Gen Ed Course (3 cr.) from Spring Year 1 to Spring Year 3.

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.

"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.

- + Due to sequencing and availability, the required Physics 5600 class cannot be taken until Autumn of year 5. We will allow a Physics Elective any additional upper-level Physics course to substitute for 5600. Examples include Physics 5680 in Autumn, Physics 3470 in Spring, and Physics 5300 in Spring.
- † 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.

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

[#]Physics 1271, 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.