

The schedule below is a typical schedule for the *required* courses for students who major in Astronomy and Astrophysics. Minor variations are possible, especially in years 3 and 4, but prerequisites must be satisfied. Other optional physics courses are recommended for students who are planning to go to graduate school.

Freshman Year			
Fall		Spring	
MTH 132	3	CEM 141	4
PHY 170	3	MTH 133	4
PHY 183 or PHY 193H	4	PHY 184 or PHY 294h	4
WRA 110	4	other	
other			
total	~15	total	~15

Sophomore Year			
Fall		Spring	
CEM 142 & 161	4	MTH 235	3
MTH 234	4	PHY 215	3
PHY 191	1	PHY 192	1
AST 207	3	AST 208	3
ISS 2xx level	4	ISS 3xx level	4
other		other	
total	~15	total	~15

Junior Year			
Fall		Spring	
AST 304 or AST 308	3	PHY 410	3
PHY 321	3		
PHY 471	3		
other		other	
total	~15	total	~15

Senior Year			
Fall		Spring	
AST 304 or AST 308	3	AST 410	1-4
AST 410	1-4		
PHY 481	3		
other		other	
total	~15	total	~15

Other required courses:

- IAH (2 courses)
- ISS (2 courses)
- Biology (1 course)
- Electives (any number of courses)

Optional physics courses:

- PHY 170, PHY 431
- PHY 422, PHY 472, PHY 482

	Courses	cr	Course Title/topic	Prerequisites
	CEM 141 or 151	4	Chemistry I	
	CEM 142 or 152	3	Chemistry II	
	CEM 161	1	Chemistry Lab	
	MTH 132	3	Calculus I	(math)
	MTH 133	4	Calculus II	(math)
	MTH 234	4	Calculus III	(math)
	MTH 235	3	Differential Equations	(math)
	MTH 309	3	Linear Algebra	(math)
	MTH 3xx or 4xx	3	advanced math courses	(math)
	Introductory Physics			
	PHY 183	4	Physics I	MTH 132
	PHY 184	4	Physics II	MTH 133
	PHY 193H	3	Honors Physics I	MTH 132
	PHY 294H	3	Honors Physics II	MTH 133
	Introductory Laboratory Courses			
	PHY 191	1	Physics Lab I	PHY 183
	PHY 192	1	Physics Lab II	PHY 184 and 191
	Intermediate Physics			
	PHY 215	3	Thermo and Modern Physics	PHY 183
	PHY 321	3	Classical Mechanics I	PHY 183 & 184
	Advanced Lecture Courses			
	PHY 410	3	Statistical Physics	PHY 471
	PHY 471	3	Quantum Theory I	PHY 215 and 321
	PHY 481	3	Electricity and Magnetism I	PHY 184 and 321
	Astronomy and Astrophysics Courses			
	AST 207	3	Science of Astronomy	PHY 183 and MTH 116
	AST 208	3	Planets and Telescopes	PHY 183 and MTH 132
	AST 304	3	Stars	AST 208, PHY 215 and PHY 321
	AST 308	3	Galaxies and Cosmology	AST 208, PHY 215 and PHY 321
	Optional Physics Courses			
	PHY 170	3	Investigations (Fr only)	
	PHY 422	3	Classical Mechanics II	PHY 321
	PHY 472	3	Quantum Theory II	PHY 471
	PHY 482	3	Electricity and Magnetism II	PHY 481
	PHY 480	3	Computational Physics	PHY 102 and advanced PHY