

B.S. in Astrophysics

	First Semester		Second Semester	
1st Year	ENGL 1101 (3) MATH 1551 (2) MATH 1553 (2) CHEM 1310 or 1211K (4) <i>Optional</i> : GT 1000 (1) Core IMPACTS* (3) <i>Sub-Total (14 or 15)</i>	English Composition I Differential Calculus Intro. Linear Algebra Chemistry I Freshman Seminar	ENGL 1102 (3) MATH 1552 (4) PHYS 2231*** (5) CS 1301 or 1371 (3) APPH 1040 or 1050 or 1060 (2) <i>Sub-Total (17)</i>	English Composition II Integral Calculus Honors Physics I Computer Science I Wellness Requirement
2nd Year	MATH 2551 (4) PHYS 2232*** (5) Core IMPACTS* (6) <i>Sub-Total (15)</i>	Multivariable Calculus Honors Physics II	MATH 2552 (4) PHYS 2210 (3) PHYS 2213 (3) PHYS 3141 (3) Core IMPACTS* (3) <i>Sub-Total (16)</i>	Differential Equations Intro to Astrophysics Intro to Modern Physics Thermodynamics
3rd Year	PHYS 3022 (3) PHYS 3122 (3) PHYS 3201 (3) Core IMPACTS* (3) Free Electives (3) <i>Sub-Total (15)</i>	Stars and Planets E&M I (statics) Classical Mechanics I	PHYS 3210 (2) PHYS 3123 (3) PHYS 3143 (3) Physics or Astro. Elective** (3) Core IMPACTS* (3) <i>Sub-Total (14)</i>	Astrophysics Lab E&M II (dynamics) Quantum Mechanics I
4th Year	PHYS 4142 (3) PHYS 4147 (3) PHYS 4247 (3) Physics or Astro. Electives** (3) Free Electives (3) <i>Sub-Total (15)</i>	Statistical Mechanics Relativity Cosmology and Galaxies	PHYS 4143 (3) PHYS 4347 (3) Physics or Astro. Elective*** (1) Free Electives (9) <i>Sub-Total (16)</i>	Quantum Mechanics II Theoretical Astrophysics

Notes: Students must have 2.0 GPA in all PHYS classes 3000-level or higher
Pass-fail only allowed for Free Electives

* Core IMPACTS:	Humanities electives (6 hours required) Social Sciences electives (9 hours required) History/constitution requirement: one of HIST 2111 (3), HIST 2112 (3), PUBP 3000 (3), INTA 1200 (3), or POL 1101 (3) (Credit not allowed for both INTA 1200 and POL 1101)
** Physics or Astrophysics Electives:	Must choose from: PHYS 3120, 3151, PHYS 3202, PHYS 3232, PHYS 4261, PHYS 4263, PHYS 4604, PHYS 4605, PHYS 4803 Special Topics: Space Plasma Physics, PHYS 4699 Undergraduate Research (at most 3 hours), other courses if approved by advisor.
*** Intro Physics Sequence:	Can be replaced with PHYS 2211 (4) and PHYS 2212 (4) with approval. If so, two credit hours are added to Physics or Astrophysics Electives.