Sample Undergrad Curriculum Map for the Astronomy B.A. Major

Distribution Requirements:

- 2 courses in humanities / arts (HU)
- 2 courses in social sciences (SO)
- 2 courses in science (SC)*

Skill Requirements:

- 2 writing (WR) courses
- 1 to 3 language (L) courses (depending on placement in freshman year)
- 2 quantitative reasoning (QR)*

** automatically completed with the major*

Astronomy Requirements:

Pre-requisites:

- PHYS 170/180/200
- PHYS 171/181/201
- PHYS 165L/205L/ASTR155
- PHYS 166L/206L/ASTR155
- MATH 112, 115

Astronomy courses (5 total):

- ASTR 210 or 220, 255, 310, 490 or 491
- 1 elective: ASTR 356, 343, 360, 375, 380

Science (3 total):

- 3 electives in any of the natural, applied or mathematical sciences (including astronomy)

Math / Scientific Methods (2 total):

- 2 courses: MATH 120 or ENAS 151 and one elective (e.g.: ASTR 356 Linear Algebra, Differential Equations, Computer programming, Statistics)

	FALL	SPRING
Freshman	- PHYS 170/180/200 (1st physics) - MATH 112 (single-var Calculus) or MATH 120 (multi-var Calculus if AP Calc in HS) or ENAS 151 (applied multi-var Calculus) - L1 - HU-1	- PHYS 171/181/201 (2nd semester physics) - MATH 115 (if following 112) - L2 - WR-1
Sophomore	- PHYS 165L or PHYS 205L (first lab, 0.5 units) - L3; if language requirement met, could take SO-1 or - ASTR 255 *(Methods and Techniques in Astronomy I*, optional field trip to an Observatory with this course)	- PHYS 166L or PHYS 206L (second lab, 0.5 units) - ASTR 356 (*Astrostatistics and Data-Mining* Spring 2015 onward – prereq ASTR 255) or use as a Math/Scientific Methods course - ASTR 210 *(Fundamentals of Astronomy with focus on Planets and Stars)*; only if ASTR 220 not taken in previous semester - SO-1, HU / SO / WR or elective
Junior	- ASTR 310 *(Galactic and extra-galactic astronomy, pre-req: ASTR 210 or 220)* - SO-2 - WR-2	- HU-2 - Science elective
Senior	- ASTR 490 *(Senior thesis research I)* - Science elective	- Science elective - (check for ASTR elective) - (check for second MATH elective)