

## Example program for Astronomy students matriculating Fall 2001 without calculus credit

**Freshman Year**                      **Sophomore Year**                      **Junior Year**                      **Senior Year**  
 Fall                      Spring                      Fall                      Spring                      Fall                      Spring                      Fall                      Spring

### Astronomy Concentration (1911)

AS202	AS203	AS311	AS312	Divisional #2	Required #3	Required #4	AS441
Divisional #1	PY211	PY212	PY313	Required #2	Divisional #4	Elective #2	Elective #5
MA123	MA124	MA225	Required #1	Divisional #3	Elective #1	Elective #3	Elective #6
WR100	WR150	For Lang 111	For Lang 112	For Lang 211	For Lang 212	Elective #4	Elective #7

*Notes:*                      *Required #1-4: Astronomy or Physics electives drawn from AS413, AS414, AS491 (or 492 but not both), PY403, PY405, PY408, PY410, and PY451*  
*Recommended Any from above required list if not already taken as an elective in addition to MA242, PY406, GG310, CS111, and CS112*

### Astronomy and Physics Concentration (1965)

AS202	AS203	AS311	AS312	Required #1	PY406	Required #2	AS441(PY581)
Divisional #1	PY211	PY212	PY403	PY405	PY410	Divisional #2	Elective #2
MA123	MA124	MA225	PY313	PY408	PY451	Divisional #3	Elective #3
WR100	WR150	For Lang 111	For Lang 112	For Lang 211	For Lang 212	Elective #1	Divisional #4

*Notes:*                      *Required #1-2: Astronomy or Physics electives drawn from AS413, AS414, and PY452*  
*Recommended Any from above required list if not already taken as an elective in addition to PY371, GG302, GG310, CS111, and CS112*

### Planetary and Space Sciences Concentration (1932)

AS202	AS203	AS311	ES101 or 105	PY405	Required #1	Required #2	Required #3
Divisional #1	PY211	PY212	PY403	CH101	Divisional #3	Elective #1	Elective #4
MA123	MA124	MA225	PY313	Divisional #2	Divisional #4	Elective #2	Elective #5
WR100	WR150	For Lang 111	For Lang 112	For Lang 211	For Lang 212	Elective #3	Elective #6

*Notes:*                      *Required #1-3: Interdepartmental electives drawn from AS414, ES222, ES301, ES331, ES333, ES371, ES405, ES424, ES571, GG302, GG310, GG312, GG440, and GG502. (with no more than 2 from any one department)*  
*Recommended Any from above required list if not already taken as an elective in addition to AS312, ES360, ES483, CH102, CS111, and CS112*

*Color Key:*

Concentration	= Department of Astronomy course
Requirement	= Department of Physics course
Requirement	= Department of Mathematics course
Categories	= Related Department course
Categories	= Elective drawn from interdisciplinary list
Categories	= College elective
College	= Divisional Studies requirement (may be replaced with Core Curriculum)
Requirement	= Foreign Language requirement
Categories	= Writing requirement

*General :*                      *The one-semester MA127 or MA129 courses may replace the two semester MA123 and MA124 sequence*  
*CC101 and 102 fulfills the WR100 requirement; CC201 and 202 fulfills the WR150 requirement*