

## Example Program "A" for Astronomy Concentrations for students matriculating with MA123 or AP Calc AB credit

<b>Freshman Year</b>	
Fall	Spring

<b>Sophomore Year</b>	
Fall	Spring

<b>Junior Year</b>	
Fall	Spring

<b>Senior Year</b>	
Fall	Spring

### Astronomy Concentration (1911)

AS202	AS203
PY251 (211)	PY252 (212)
MA124	MA225
WR100	WR150

AS311	AS312
PY351 (313)	Required 1
Divisional 1	Divisional 2
Lx111	Lx112

Required 2	AS441
Elective	Required 3
Divisional 3	Divisional 4
Lx211	Lx212

Required 4	(AS402)
(AS401)	Elective
Elective	Elective
Elective	Elective

**Notes:** Required 1-4: Four Astronomy or Physics Courses drawn from: AS413, AS414, AS491 or 492 (but not both), PY355, PY405, PY408, PY410, and PY451  
Recommended Courses: Any from the above list of required courses not already taken as well as MA 226, MA242, PY406, GE310, CS111, CS112

### Astronomy and Physics Concentration (1965)

AS202	AS203
PY251 (211)	PY252 (212)
MA124	MA225
WR100	WR150

AS311	AS312
PY351 (313)	PY355
Divisional 1	Divisional 2
Lx111	Lx112

Required 1	PY406
PY405	PY410
PY408	PY451
Lx211	Lx212

Required 2	AS441(PY581)
(AS401)	(AS402)
Elective	Elective
Divisional 3	Divisional 4

**Notes:** Required 1-2: Any two of the Astronomy or Physics Courses AS413, AS414, PY452  
Recommended Courses: Any from the above list of required courses not already taken as well as MA 226, MA242, PY371, GE302, GE310, CS111, CS112

### Geophysics and Planetary Physics Concentration (1932)

AS202	ES1xx
PY251 (211)	PY252 (212)
MA124	MA225
WR100	WR150

AS311	ES360
CH131 (101)	PY355
Divisional 1	Elective
Lx111	Lx112

Required 1	Required 2
PY405 (408)	Elective
Elective	Divisional 2
Lx211	Lx212

Required 3	Required 4
(AS/ES401)	(AS/ES402)
Divisional 3	Divisional 4
Elective	Elective

**Notes:** Required 1-4: Four Interdepartment elective courses drawn from: AS312, AS414, ES222, ES301, ES371, ES483, ES505, ES581, GE302, GE310, GE312, PY313 or 351, PY410, PY405 or 408 if not already taken (not all from same department, at least one at 400 level).  
Recommended Courses: Any from the above list of required courses not already taken as well as CH102, CS111, CS112.

**Color Key: Concentration Requirements**

	Department of Astronomy Courses
	Department of Physics Courses
	Department of Earth Sciences Courses
	Department of Math and Statistics Courses
	College Elective Courses
	Required concentration electives drawn from I
	Work for Distinction (Optional) [Elective Other]

**College of Arts and Sciences Requirements**

	Breath Requirement
	Foreign Language Requirement
	Writing Requirement

**General:** "Courses taken to satisfy concentration requirements must receive a grade of at least C"  
The one-semester MA127 or 129 courses may replace the two-semester MA123/124 sequence  
CC101 and 102 fulfill the WR100 requirement and the humanities divisional course requirement  
CC201 and 202 or CC203 and 204 fulfill the WR150 and divisional course requirements