

Example Program "B" for Astronomy Concentrations for students matriculating without MA123 or AP Calc AB credit, and without a year of high school calculus

Freshman Year	
Fall	Spring

Sophomore Year	
Fall	Spring

Junior Year	
Fall	Spring

Senior Year	
Fall	Spring

Astronomy Concentration (1911)

AS202	AS203
Divisional 1	PY211
MA123	MA124
WR100	WR150

AS311	AS312
PY212	PY313
MA225	Required 1
Lx111	Lx112

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

Required 4	(AS402)
(AS401)	Elective
Divisional 4	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
Divisional 1	PY211
MA123	MA124
WR100	WR150

AS311	AS312
PY212	PY313
MA225	PY355
Lx111	Lx112

PY405	PY406
PY408	PY451
Divisional 2	Required 1
Lx211	Lx212

(AS401)	(AS402)
Elective	AS441(PY581)
Required 2	PY410
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
Divisional 1	PY211
MA123	MA124
WR100	WR150

AS311	CH131 (101)
PY212	ES360
MA225	PY355
Lx111	Lx112

PY405 (408)	Required 2
Required 1	Divisional 2
Divisional 1	Divisional 3
Lx211	Lx212

Required 3	Required 4
(AS/ES401)	(AS/ES402)
Divisional 4	Elective
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 list
	Work for Distinction (Optional) [Elective Otherwise]

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