

[illegible]

					4	# subjects in major
					72	# units beyond GIRs
Courses (YR4)	Units (YR4)					
HASS	12			HASS	12	
12.TIP-Thesis Preparation	6			[CI-M] 12.THU-Undergraduate Thesis	12	
[CONCENTRATION] 12.420/12.421: Physical Principles of Remote Sensing or Essentials of Planetary Science	12			Elective (6) + [Concentration] 12.409: Hands on Astronomy (6)	12	
[LAB CI-M] 12.410: Observational Techniques of Optical Astronomy	15			Elective	12	
Elective	6				8	# subjects
					4	# subjects in major
					60	# units beyond GIRs
					180	Total # units beyond GIRs
Notes:						
12.420 is offered in alternate years.						