Course 12 Major
Climate, Atmospheres, and Oceans Roadmap

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Fall		IAP		Spring			
Courses (YR1)	**Units (YR1)**		**Units**		**Units**		
[GIR] Physics 1	12			[GIR] Physics II	12		
[GIR] Chemistry 5.111	12			[GIR] Calculus	12		
[GIR] Calculus	12			HASS	12		
HASS (CI-H)/CI-HW)	12			[GIR] Biology 7.014	12		
						8	# subjects
						0	# subjects in major
						0	# units beyond GIRs
Courses (YR2)	**Units (YR2)**		**Units**		**Units**		
Hass (CI-H)	12			HASS	12		
[SUPPORTING;REST] 18.03 differential equations	12			[INTRO] 12.003 Introduction to Atmosphere, Ocean and Climate Dynamics	12		
[INTRO;REST]12.004 Intro to Chemistry of Habitable Environments	12			[CONCENTRATION] 12.315 (Atmospheric Radiation and Convection)	12		
[COMPUTATION] 6.100A (Intro to Comp Sci Programming in Python) AND 6.100B (Intro to Computational Thinking and Data Science)	12			Elective	12		
						8	# subjects
						5	# subjects in major
						48	# units beyond GIRs
Courses (YR3)	**Units (YR3)**		**Units**		**Units**		
HASS	12			HASS	12		
[CONCENTRATION] 12.301 (Introduction to Climate Science) or 12.318 (Introduction to Atmospheric Data and Large-Scale Dynamics)	12			[INTRO]: 12.002 Introduction to Geophysics and Planetary Science	12		
[SUPPORTING] 5.601 Thermodynamics I and 5.602 Thermodynamics II and Kinetics	12			[SUPPORTING] 8.03 Physics III (vibrations & waves)	12		
Elective	12			[Lab/Field (CI-M)] 12.307: Weather and Climate Laboratory or Elective	12		
						8	# subjects
						4-5	# subjects in major
						60-72	# units beyond GIRs
Courses (YR4)	**Units (YR4)**		**Units**		**Units**		
12.TIP-Thesis Preparation	6			[CI-M]12.THU-Undergraduate Thesis	12		
HASS	12			HASS	12		
[Lab/Field (CI-M)] 12.335: Experimental Atmospheric Chemistry or Elective	12			[CONCENTRATION] 12.373 (Field Oceanography; even year) or 12.377 (History of Earth's Climate; odd year)	12		
Elective	12			Elective	12		
Elective	6					8	# subjects
						2.5-3.5	# subjects in major
						60-72	# units beyond GIRs
						180	Total # units beyond GIRs