

Course 12 Major Earth Science Roadmap			Questions? eaps-ed-office@mit.edu			
Fall	IAP	Spring				
Courses (YR1)	Units (YR1)	Units (YR1)	Units (YR1)	Units (YR1)		
[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			Elective	12	
					8	# subjects
					0	# subjects in major
					12	# units beyond GIRs
Courses (YR2)	Units (YR2)	Units (YR2)	Units (YR2)	Units (YR2)		
Hass (CI-H)	12			HASS	12	
[GIR] Biology	12			[INTRO;REST] 12.002 Introduction to Geophysics and Planetary Science	12	
[INTRO] 12.001 Introduction to Geology	12			[SUPPORTING;REST] 18.03 Differential Equations	12	
[COMPUTATION] 6.100A (Intro to Comp Sci Programming in Python) AND 6.100B (Intro to Computational Thinking and Data Science) or 12.010 Computational Methods of Scientific Programing	12			Elective	12	
					8	# subjects
					4	# subjects in major
					36	# units beyond GIRs
Courses (YR3)	Units (YR3)	Units (YR3)	Units (YR3)	Units (YR3)		
HASS	12	[Lab/Field (CI-M)] 12.115 Field Camp (even); take in Y4 if necessary.	9	HASS	12	
[INTRO] 12.004: Chemistry of Habitable Planets	12			[CONCENTRATION] 12.007 Geobiology: History of Life on Earth (Even) or 12.108 Earth Materials (Odd)	12	
[SUPPORTING] 5.601 Thermodynamics I and 5.602 Thermodynamics II and Kinetics	12			[SUPPORTING] 1.080 Environmental Chemistry	12	
[CONCENTRATION]: 12.113 Structural Geology (Odd, req. for 12.115/116) or or 12.100 Tectonics and Climate (Even)	12			[Lab/Field (CI-M)]: 12.116: Analysis of Geologic Data (Even); take in Y4 if necessary.	6	
					8.5	# subjects
					7	# subjects in major
					60	# units beyond GIRs
Courses (YR4)	Units (YR4)	Units (YR4)	Units (YR4)	Units (YR4)		
12.TIP-Thesis Preparation	6			12.THU-Undergraduate Thesis	12	
HASS	12			HASS	12	
Elective	12			[CONCENTRATION] 12.110A/12.110B Sedimentary Environments / Sedimentology in the field (Odd, 15 units) or 12.210 Introduction to Seismology (Even, 12 units)	12	
Elective	12			Elective	12	
Elective	6				8	# subjects
					2.5	# subjects in major
					72	# units beyond GIRs
					180	Total # units beyond GIRs