MINOR IN ASTRONOMY

The Minor in Astronomy, offered jointly by the Department of Earth, Atmospheric, and Planetary Sciences (https://catalog.mit.edu/ schools/science/earth-atmospheric-planetary-sciences) and the Department of Physics (https://catalog.mit.edu/schools/science/ physics), covers the observational and theoretical foundations of astronomy. The minor requires seven subjects as follows:

8.03 Physics III 12 8.282[J] Introduction to Astronomy 19 18.03 Differential Equations 1 12 Astrophysics 8.284 Modern Astrophysics 12 0r 8.286 The Early Universe Planetary Astronomy Select one of the following: 12 12.400 Our Space Odyssey 12.420 Essentials of Planetary Science 12.425[J] Extrasolar Planets: Physics and Detection Techniques Instrumentation and Observations Select one of the following: 12-18 12.410[J] Observational Techniques of Optical Astronomy 12.43[J] Space Systems Engineering 12.431[J] Space Systems Development Independent Project in Astronomy	Total Units		78-87
8.03 Physics III 12 8.282[J] Introduction to Astronomy 19 18.03 Differential Equations 1 12 Astrophysics 8.284 Modern Astrophysics 12 0r 8.286 The Early Universe Planetary Astronomy Select one of the following: 12 12.400 Our Space Odyssey 12.420 Essentials of Planetary Science 12.425[J] Extrasolar Planets: Physics and Detection Techniques Instrumentation and Observations Select one of the following: 12-18 12.410[J] Observational Techniques of Optical Astronomy 12.43[J] Space Systems Engineering 12.431[J] Space Systems Development Independent Project in Astronomy Select one of the following: 9-12 8.UR Undergraduate Research 0r 12.UR Undergraduate Physics Thesis	12.411	Astronomy Field Camp	
8.03 Physics III 8.282[J] Introduction to Astronomy 99 18.03 Differential Equations 1 Astrophysics 8.284 Modern Astrophysics 91 12.486 The Early Universe Planetary Astronomy Select one of the following: 12.400 Our Space Odyssey 12.420 Essentials of Planetary Science 12.425[J] Extrasolar Planets: Physics and Detection Techniques Instrumentation and Observations Select one of the following: 12.410[J] Observational Techniques of Optical Astronomy 12.43[J] Space Systems Engineering 12.431[J] Space Systems Development Independent Project in Astronomy Select one of the following: 9-12 8.UR Undergraduate Research 0r 12.UR Undergraduate Research	or 12.THU	Undergraduate Thesis	
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	8.282[J]	Introduction to Astronomy	9
ASCIONOMY, Machematics, and Physics	8.03	Physics III	12
Astronomy Mathematics and Physics	Astronomy, Mat	hematics, and Physics	

^{18.032} Differential Equations is also an acceptable alternative.

A maximum of three subjects can count toward the astronomy minor, and a major or another minor. Further information on the minor can be obtained from Professor Michael A. McDonald (mcdonald@space.mit.edu), 37-664B, 617-324-1075.