



Undergraduate Minor Program Approval

Undergraduate students may obtain a minor in Planetary Sciences. The PTYS minor consists of 18 units:

- **PTYS 403, 407, 411 (Required)**
- **3 other upper-division units in Planetary Science**
- **5 units chosen by the student and minor advisor subject to final approval by the PTYS Curriculum Committee.**

Date	SID
Student Name	Email Address
Major Dept.	Other minor

Course Number	Course Title	Units	Grade	Completed
PTYS 206	The Golden Age of Planetary Exploration	3		
PTYS 212/212H	The Science and Politics of Global Warming	3		
PTYS 214	Astrobiology: A Planetary Perspective	3		
PTYS 342	Life on Mars: Fact and Fiction	3		
PTYS 395B	Special Topics in Planetary Science	1		
PTYS 403	Physics of the Solar System	3		
PTYS 407	Chemistry of the Solar System	3		
PTYS 411	Geology and Geophysics of the Solar System	4		
PTYS 416	Asteroids, Comets and Kuiper Belt Objects	3		
ASTR 418	Modern Astronomical Instrumentation and Techniques	3		
ASTR 455	Teaching College-Level Astronomy & Planetary Science	3		
ASTR 475	Planetary Astrobiology	3		
GEOS 419	Physics of the Earth	3		
GEOS 430	The Chemical Evolution of Earth	3		
ATMO 441A	Dynamic Meteorology	3		
ATMO 441B	Dynamic Meteorology	3		
PTYS 442	Mars	3		
PTYS 449	Image Processing for Scientific Discovery	3		
PTYS 450	Origin of the Solar System	3		
PTYS 495A	Galilean Satellites of Jupiter	1		
PTYS 495B	Special Topics in Planetary Science	3		

Minor Completed		
	PTYS advisor signature	Date

When courses have been completed, return form to Kuiper Space Sciences 317.