

**COLLEGE OF ARTS AND SCIENCES
THE OHIO STATE UNIVERSITY**

TYPE 1B PLANETARY SCIENCE CERTIFICATE (PLANETS-CT)

Student: _____

Other degree programs (Majors, minors, certificate): _____

Course	Credit Hours	Semester Completed	Overlap with other major, minor, other certificate program or GE?
<i>Introductory course</i>			
	3		
<i>Disciplinary course</i>			
<i>Techniques/Data course</i>			
<i>Planetary Science Requirement</i>			
EARTHSC/ASTRON 5205	3		

Total Credit hours: _____ (minimum 12)

Credits double counted with major, minor, other certificate program, or GE:
_____ (maximum 50%)

Advisor's signature _____

Introductory course (3 credits):

- **EARTHSC 2205:** The Planets (3)
- **ASTRON 1141:** Life in the Universe (3)
- **ASTRON 2291:** Basic Astrophysics and Planetary Astronomy (3)

A disciplinary course (3-4 credits):

- **EARTHSC 5646:** Geodynamics (3)
- **EARTHSC 5680:** Deep Earth Geophysics (3)
- **EARTHSC 5550:** Geomorphology (4)
- **GEODSCI 5781:** Geodesy and Geodynamics (3)

A techniques/data course (3 credits):

- **EARTHSC 4560:** Applied Geophysics (3)
- **EARTHSC 5310:** Remote Sensing in the Earth Sciences (3)
- **ASTRON 3350:** Methods of Astronomical Observation and Data Analysis (3)
- **GEOG 5210:** Fundamentals of Geographic Information Systems (3)
- **GEOG 5225:** Geographic Applications of Remote Sensing (3)
- **CIVILEN 5001:** Introduction to Geographic Information Systems (4):

Required core course (3 credits):

- **EARTHSC/ASTRON 5205:** Planetary Science (3)