The 12-14 credit hour Planetary Science Certificate will prepare students to continue in the field of planetary science or planetary exploration. The certificate is designed to enhance both critical thinking and the technical skills for practicing planetary science.

**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 (3-4 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)

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**Planetary Science Certificate program guidelines**

The following guidelines govern the Planetary Science Certificate. **Required for certificate:**

**Credit hours required:** 12-14 credit hours.

**Overlap with a major**
- The certificate must be in a different subject than the major.

**Grades required**
- Minimum C- for a course to be listed on the certificate.
- Minimum 2.00 cumulative point-hour ratio required for the certificate.

**X193 credits:** Not permitted.

**Certificate Completion:** If the certificate is not complete on the DAR, the student must consult with the College of Arts and Sciences Coordinating Advisor.

**Filing the certificate program form:** The certificate program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

**Changing the certificate:** Once the certificate program is filed in the college office, any changes must be approved by the College of Arts and Sciences Coordinating Advisor.

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