**Type 1B Planetary Science Certificate (PLANETS-CT)**

Student: ___________________________

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
<th>Semester Completed</th>
<th>Overlap with other major, minor, other certificate program or GE?</th>
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<tbody>
<tr>
<td><strong>Introductory course</strong></td>
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<tr>
<td>EARTHSC/ASTRON 5205</td>
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<tr>
<td><strong>Disciplinary course</strong></td>
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<tr>
<td><strong>Techniques/Data course</strong></td>
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<td><strong>Planetary Science Requirement</strong></td>
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<td>EARTHSC/ASTRON 5205</td>
<td>3</td>
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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)