Astronomy

ASTR 405  **Planetary Systems**  credit: 3 hours.
This course traces, from a physical perspective, the evolution of planetary systems from star formation in molecular clouds to the emergence of habitable worlds. Topics include the properties of HII regions and molecular clouds, gravitational collapse and disk formation, formation of planetesimals and planets, dynamics of the solar system, physics of planetary atmospheres, properties of individual planets and their rings and satellites, detection and characterization of extra-solar planets, and searches for life in the Solar System and beyond. 3 undergraduate hours. 3 graduate hours. Prerequisite: PHYS 212 or consent of instructor. Recommended: ASTR 210, PHYS 213.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>39316</td>
<td>Lecture</td>
<td>1</td>
<td>11:00 AM - 11:50 AM</td>
<td>MWF</td>
<td>136 - Loomis Laboratory</td>
<td>Gammie, C</td>
</tr>
</tbody>
</table>