PHYS 419  **Space, Time, and Matter-ACP**  credit: 3 OR 4 hours.
Identical to PHYS 420 except for the additional writing component including a final term paper. Same as PHIL 419. 3 undergraduate hours. 4 graduate hours. Credit is not given for both PHYS 419 and PHYS 420. Junior standing is required. Prerequisite: One physical science course; one of PHYS 214, PHIL 101, PHIL 270, PHIL 317.

This course satisfies the General Education Criteria for a:
Advanced Composition

<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>38575</td>
<td>Lecture</td>
<td>A</td>
<td>01:00 PM - 02:20 PM</td>
<td>TR</td>
<td>144 - Loomis Laboratory</td>
<td>Weissman, M</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
Advanced Composition course.
Restricted to Undergrad - Urbana-Champaign.
Undergraduates enroll in section A (38575). (To enroll in this course without the Advanced Composition component and for reduced credit, see PHYS 420.)

| 38576| Lecture | G       | 01:00 PM - 02:20 PM| TR   | 144 - Loomis Laboratory | Weissman, M |

Credit Hours: 4 hours
Advanced Composition course.
Restricted to Graduate - Urbana-Champaign.
Graduate students enroll in section G (38576).