Physics

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. Prerequisite: PHIL 101; PHYS 101 or PHYS 211.

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>
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<tbody>
<tr>
<td>38575</td>
<td>Lecture</td>
<td>A</td>
<td>12:30 PM - 01:50 PM</td>
<td>TR</td>
<td>161 - Noyes Laboratory</td>
<td>Ceperley, D</td>
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<tr>
<td>38576</td>
<td>Lecture</td>
<td>G</td>
<td>12:30 PM - 01:50 PM</td>
<td>TR</td>
<td>161 - Noyes Laboratory</td>
<td>Ceperley, D</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.)

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