PHYS 419  **Space, Time, and Matter-ACP**  credit: 3 OR 4 hours.

(PHYCS 319) Philosophical examination of some fundamental concepts and theories of the physical world, such as time, matter, causation, space, and geometry; interpretation of quantum theory. Graduate students write an additional paper. Same as PHIL 419. 3 undergraduate hours. 4 graduate hours. Credit is not given for both PHYS 419 and PHYS 420. Prerequisite: Junior standing; one physical science course; one of PHYS 214, PHIL 101, PHIL 270, or PHIL 317; or consent of instructor.

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>34926</td>
<td>Lecture</td>
<td>A</td>
<td>02:30 PM - 03:50 PM</td>
<td>TR</td>
<td>144 - Loomis Laboratory</td>
<td>Phillips, P</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
Advanced Composition course.
Restricted to Undergrad - Urbana-Champaign.
Undergraduates enroll in section A (34926). (To enroll in this course without the Advanced Composition component and for reduced credit, see PHYS 420.)

| 41220| Lecture  | G       | 02:30 PM - 03:50 PM| TR   | 144 - Loomis Laboratory | Phillips, P |

Credit Hours: 4 hours
Advanced Composition course.
Restricted to Graduate - Urbana-Champaign.
Graduate students enroll in section G (41220).