Class Schedule - Fall 2019

Physics

PHYS 298  Freshmen/Sophomore Special Topics in Physics  credit: 0 TO 4 hours.
Topical offerings of technical interest, skills, and knowledge in physics, and its practice, intended to augment the existing curriculum at the introductory level. Approved for Letter and S/U grading. May be repeated in separate terms up to 12 credit hours if topics vary. Prerequisite: See Class Schedule or departmental course information for topics and prerequisites. For students with freshman or sophomore standing.

<table>
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<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>72568</td>
<td>Lecture-Discussion</td>
<td>EJP</td>
<td>05:00 PM - 08:00 PM</td>
<td>T</td>
<td>ARR - Danville IL</td>
<td>Ginsburg, R Kuchibhotla, A</td>
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Credit Hours: 3 hours
Classical Mechanics
Departmental Approval Required
Restricted to NDEG:Undergrad Nondeg-CE-UIUC.
Restricted to nondegree students participating in the Education Justice Project for the current term. Prerequisite: Algebra 1

| 67785| Lecture            | OWL     | 04:00 PM - 05:50 PM | R    | 276 - Loomis Laboratory | Clark, B |

Credit Hours: 2 hours
You will learn to do remarkable things. By the end of the first week you will calculate the trajectory of a relativistic starship and confirm an insight of Ramanujan, the "Man Who Knew Infinity." A week after that you will generate diagrams of spacetime curvature around black holes. You will determine the slingshot trajectory for a tour of the gas giants and calculate pi using simulated toothpicks. There will be chaos, and fractal geometry, and pattern recognition in noisy environments. You will learn that a Python is not just a snake, nor a Spyder just an arachnid. And you will be pioneers: you are going to help us change the way we teach undergraduate physics at the University of Illinois.