Physics

PHYS 486  **Quantum Physics I**  credit: 4 hours.
Atomic phenomena integrated with an introduction to quantum theory; evidence for the atomic nature of matter and the properties of the Schrödinger equation, single particle solutions in one dimension, the hydrogen atom, perturbation theory, external fields, and atomic spectroscopy of outer electrons. 4 undergraduate hours. 4 graduate hours. Prerequisite: MATH 285; PHYS 214; credit or concurrent registration in MATH 415.

Register for a lecture and a discussion section.

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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>
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<td>Lecture</td>
<td>A</td>
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<td>Villalonga Correa, B</td>
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<td>Packard, D Villalonga Correa, B</td>
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Restricted to Astronomy or Engineering Physics or Physics or Teaching of Physics major(s) or minor(s). Restricted to students with Junior or Senior class standing. Prerequisite: PHYS 325 Credit; Credit or Concurrent Registration with PHYS 435