Curriculum Details for PHYS 170

There is no proposal to change this course. You must log in to create one.

<table>
<thead>
<tr>
<th>Entry Type</th>
<th>Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>proposed by:</td>
<td></td>
</tr>
</tbody>
</table>

Basic Banner Information

The purpose of this section is to detail the basic information necessary for the course, most of which will appear in Banner and the college's catalog.

<p>| 1. Justification for the change |        |
| 2. Course Alpha                | PHYS   |
| 3. Course Number               | 170    |
| 4. Course Title                | General Physics I |
| 5. Short Course Title (for Banner) |        |
| 6. Course Credits (or lower limit) | 4       |
| 7. Course Credits Upper Limit (if) | 0       |</p>
<table>
<thead>
<tr>
<th><strong>applicable)</strong></th>
</tr>
</thead>
</table>

| **8. Catalog Description** | This is the first of a rigorous, calculus-based course in physics for the professional or engineering majors. The study of the concepts of physics including the fundamental principles and theories of mechanics, energy, waves and thermodynamics. |
| **9. Pre-Requisites:** | Credit for MATH 205 or higher or equivalent or consent of instructor. |
| **10. Co-Requisites:** | PHYS 170L and credit for or registration in MATH 206 or equivalent, or consent of instructor. |
| **11. Recommended Preparation:** | |
| **12. Contact Hours (lecture, laboratory, lecture/lab):** | 4 hours lecture |
| **13. Which department is sponsoring the course?** | Natural Sciences |
| **14. Which course is this course cross-listed with?** | |

**Generic Syllabus**

The purpose of this section is to expand on the course content to give the Windward CC curriculum committee and people in other campuses a sense of how the course will proceed.

| **15. Course Content.** | |
| **16. What are the Course Competencies?** | |
| **17. Overview of** | |
Learning Outcomes and Strategic Plan

The purpose of this section is to detail the course Student Learning Outcomes and to tie the course to the college's strategic plan.

<table>
<thead>
<tr>
<th>21. What are the Student Learning Outcomes?</th>
<th>• Demonstrate a solid conceptual understanding of kinematics, dynamics, wave phenomena, and thermodynamics. • Solve applicable problems using differential calculus and vector analysis. • Apply the laws of physics to computational problems in kinematics, dynamics, wave phenomena, and thermodynamics.</th>
</tr>
</thead>
<tbody>
<tr>
<td>22. What is the Connection between the Course SLOs and the College's General Education Outcomes?</td>
<td></td>
</tr>
<tr>
<td>23. How does the proposal connect to the college's</td>
<td></td>
</tr>
</tbody>
</table>
## Resources

The purpose of this section is to detail the resources needed for the course.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>24. Describe the staff that will be needed</strong></td>
<td></td>
</tr>
<tr>
<td><strong>25. Describe the facilities that will be needed, including special rooms</strong></td>
<td></td>
</tr>
<tr>
<td><strong>26. Describe any other resources that will be needed</strong></td>
<td></td>
</tr>
<tr>
<td><strong>27. How will the staff, facilities, and other resources for the course be secured?</strong></td>
<td></td>
</tr>
</tbody>
</table>

## Connections to Programs

The purpose of this section is to detail how the course connects to certificates and programs at Windward CC.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>28. What Certificates are Connected to the Course?</strong></td>
<td></td>
</tr>
<tr>
<td><strong>29. What Specific A.A. does the Course</strong></td>
<td>Associate in Arts: Physical Sciences (DP)</td>
</tr>
</tbody>
</table>
### Fulfill?

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>30. Maximum Number of Credits acceptable towards the AA Degree:</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Similar Courses Elsewhere

The purpose of this section is to detail how the course is similar to other courses in the UH system and how the course might be included in articulation agreements.

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>31. List any similar classes taught outside of the UH System.</td>
<td></td>
</tr>
<tr>
<td>32. List any similar classes taught at campuses in the UH System.</td>
<td></td>
</tr>
<tr>
<td>33. How, if at all, is the course intended to count in lieu of a course taught at a four-year campus?</td>
<td></td>
</tr>
<tr>
<td>34. How, if at all, is the course similar to upper-division courses in the UH System?</td>
<td></td>
</tr>
<tr>
<td>35. How, if at</td>
<td></td>
</tr>
<tr>
<td>Question</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>36. How, if at all, is the course appropriate for articulation with other department or college requirements on a UH four-year campus?</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Other Information**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>37.</td>
<td>Other Notes</td>
</tr>
</tbody>
</table>

Page last updated: June 20, 2011

[Log in](#)