2014

141-01 Radiologic Physics

Amy Bosch

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Radiologic Physics
PHYS 141-01
TR 8:30-9:20
LOG 105

Instructor: Amy Bosch
Office: LND 106
Phone: 513-745-4297
E-Mail: boscha1@xavier.edu
Office Hours: Monday 9-10, Tuesday 12-12:30, Wednesday 12-1; Thursday 10-11; or by appointment. I am not on campus on Fridays.

Student Learning Outcomes: As a core science course, a major goal of this course is to promote critical thinking. Students will evaluate the use of science and mathematics in society and everyday life in an informed manner. Students will explain the scientific method, including the difference between hypotheses, theories and laws. Students will utilize mathematical and logical reasoning and the language of mathematics with its own symbols, syntax, and semantics.

Text: The Physics of Everyday Phenomena 7th edition by Griffith. There will also be files posted to our Blackboard page for your use.

Course Content: This is an algebra based physics class for students in the Radiation Technology program. This course is a continuation of PHY 140, and will continue where PHY 140 left off. A mastery of the topics from PHY 140 and a working knowledge of high school algebra are assumed.

Homework: Homework will be assigned in class. Solve the problems carefully, showing each step. You are encouraged to explore the homework as a group. However, you are required to write homework solutions in your own words. No credit will be given for homework which is turned in late more than one class period late.

Quizzes: Four quizzes will be given during the semester. The tentative dates are Thursday, January 23; Thursday, February 20; Thursday, March 27; and Thursday, April 24.

Tests: Three tests will be given during the course of the semester. Tests must be taken when scheduled. A legitimate written excuse must be provided before any make-up test will be considered. There will be at most one make-up exam per student. A comprehensive final exam will be given during finals week. Tentative test schedule:

Test 1: Thursday, February 5
Test 2: Thursday, March 13
Test 3: Thursday, April 10
Final Exam: Tuesday, May 6, 8:30-10:20

Class Attendance: Attendance is expected for all classes.
**Grading:** Semester grades will be based on:

- Homework 5%
- Quizzes (4) 5% each
- Test with lowest score 10%
- Remaining two tests 20% each
- Final Exam 25%

Grades will be assigned on the following scale:

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>87-89</td>
<td>B+</td>
</tr>
<tr>
<td>77-79</td>
<td>C+</td>
</tr>
<tr>
<td>67-69</td>
<td>D+</td>
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<tr>
<td>93-100</td>
<td>A</td>
</tr>
<tr>
<td>83-86</td>
<td>B</td>
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<tr>
<td>73-76</td>
<td>C</td>
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<tr>
<td>60-66</td>
<td>D</td>
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<tr>
<td>90-92</td>
<td>A-</td>
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<tr>
<td>80-82</td>
<td>B-</td>
</tr>
<tr>
<td>70-72</td>
<td>C-</td>
</tr>
</tbody>
</table>

**Courtesy:** Please leave your cell phones, i-Pods, etc. turned off during class.

The instructor reserves the right to alter this syllabus if circumstances dictate.