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PHY234B, Spring 2013 - Calculus Concepts in Physics II

Michigan State University

Course Coordinator:	Chien-Peng Yuan
Teaching Assistant:	Joseph D Williams
Teaching Assistant (Section 730):	Alexander Daniel Kreger

Instructor Information

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Course Description

PHY 234B: bridging course from the algebra based PHY 232 (or equivalent) to the calculus based PHY 184, i.e.
 PHY 232 + PHY 234B = PHY 184

Prerequisites

PHY 232 (or 232C) = College Physics II
 MTH 133 = Calculus II
 Recommended: MTH 234 - Calculus III

Class Hours

PHY 234b is an on-line course. There are no scheduled lectures.
 However, there are 1 or 2 screencasts per week for students to watch.
 Go to <http://www.pa.msu.edu/courses/phy234b/> and follow the links to the course assignments and video lectures.

Office Hours

Online Teaching Assistant:

Alexander Kreger <kregera3@msu.edu>
 Joseph Williams <will2456@msu.edu>

In helproom (1248 BPS):

Mon: 10-11 am
 Tue: 12-1pm
 Wed: 10-2pm; 3-4pm
 Thur: 11-3 pm; 6-9pm

Helproom Hours

See the Schedule in Room 1248 BPS (the help room).
 Also, join a study group by meeting with Kim Crosslan in Room 1312 BPS.

Alexander Kreger <kregera3@msu.edu>
 Joseph Williams <will2456@msu.edu>

Mon: 10-11 am
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Project Information

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Exam Information

Exam #1: Wednesday, February 6, 6-7 PM, room BPS 1415.

Exam #2: Wednesday, March 20, 6-7 PM, room BPS 1415.

Exam #3: Wednesday, April 24, 6-7 PM, room BPS 1415.

On each exam you are allowed to have a one-sided 8.5 by 11 US letter sized handwritten help sheet.

Bring a scientific calculator with fresh batteries, two sharp #2 (HB) pencils, an eraser and your picture ID to each exam. Graphing calculators are allowed, but not required. You are not allowed to share a calculator with another examinee. Cell phones must be turned off during the exam.

Deadlines

Homework assignments are accessed at

<https://loncapa.msu.edu/>

The due dates are listed on the lon-capa website.

Grading Information

The final grade will be based on:

Lon-Capa homework sets: 30%

three Exams: $3 \times 24\% = 72\%$

To partly compensate for any missed deadlines, the sum of contributions to the net class score adds up to 102%.

Grading scale:

4.0 \geq 94%,

3.5 \geq 86%,

3.0 \geq 78%,

2.5 \geq 70%,

2.0 \geq 62%,

1.5 \geq 54%,

1.0 \geq 46%,

0.0 < 46%.

This grading scale might be lowered, but it will not be raised.

Readings

Required:

Purchase the PHY 234B Course Pack at the Student Book Store

Recommended Readings:

University Physics, 1st Edition, 2011, by Wolfgang Bauer and Gary Westfall (McGraw-Hill); Chapters 21 - 31.

Links to the "course assignments":

<http://www.pa.msu.edu/courses/phy234b/>

Coursepack

Required:

Purchase the PHY 234B Course Pack at the Student Book Store.

Web Links

Links to the "video lectures" (screencasts):

<http://www.pa.msu.edu/courses/phy234b/>

Homework assignments:

<https://loncapa.msu.edu/>

Textbook

Required:

Purchase the Coursepack for PHY 234b at the Student Book Store.

Recommended Readings:

University Physics, 1st Edition, 2011, by Wolfgang Bauer and Gary Westfall (McGraw-Hill); Chapters 21 - 31.