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# PHY233B, Spring 2013 - Calculus Concepts in Physics I

## Michigan State University

<b>Course Coordinator:</b>	Chien-Peng Yuan
<b>Teaching Assistant:</b>	Alexander Daniel Kreger
<b>TeachingAssistant (Section 730):</b>	Joseph D Williams

### Instructor Information

Prof. C.-P. Yuan  
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### Course Description

PHY 233B: bridging course from the algebra based PHY 231 (or equivalent) to the calculus based PHY 183, i.e.  
PHY 231 + PHY 233B = PHY 183

### Prerequisites

PHY 231 (or 231C) = College Physics I  
MTH 132 = Calculus I

### Class Hours

PHY 233b 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/phy233b/> and follow the links to the course assignments and video lectures.

### Office Hours

Online Teaching Assistant:

Alexander Kreger <[kregera3@msu.edu](mailto:kregera3@msu.edu)>  
Joseph Williams <[will2456@msu.edu](mailto:will2456@msu.edu)>

In helproom (1248 BPS):

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

**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 x 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 >= 94%,  
3.5 >= 86%,  
3.0 >= 78%,  
2.5 >= 70%,  
2.0 >= 62%,  
1.5 >= 54%,  
1.0 >= 46%,  
0.0 < 46%.

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

**Readings**

Required:  
Purchase the PHY 233B Course Pack at the Student Book Store  
Recommended Readings:  
University Physics, 1st Edition, 2011, by Wolfgang Bauer and Gary Westfall (McGraw-Hill).  
Links to the "course assignments":  
<http://www.pa.msu.edu/courses/phy233b/>

**Coursepack**

Required:  
Purchase the PHY 233B Course Pack at the Student Book Store.

**Web Links**

Links to the "video lectures" (screencasts):  
<http://www.pa.msu.edu/courses/phy233b/>  
Homework assignments:  
<https://loncapa.msu.edu/>

**Textbook**

Recommended Readings:  
University Physics, 1st Edition, 2011, by Wolfgang Bauer and Gary Westfall (McGraw-Hill).