DEPARTMENT OF PHYSICS
Spring 2017  Physics 2Ab  Physics – Mechanics
Course web page: http://dudko.ucsd.edu/physics_2a_b.html

INSTRUCTOR: Prof. Olga Dudko  
Office: Urey Hall 7234, dudko@physics.ucsd.edu  
Office Hours: Monday 2:00 – 3:00 pm and Tuesday 6:30 – 7:30 pm

COURSE COORDINATOR: Dawn Love  
Office: Mayer Hall Addition 2551, d1love@physics.ucsd.edu

TEACHING ASSISTANT: Jung-Tsung Li, jul171@ucsd.edu  
Office Hours: Wednesday 11:00 am – 12:00 pm in the Physics Dept. Tutorial Center, Mayer Hall 2702

CLASS SCHEDULE AT A GLANCE:

<table>
<thead>
<tr>
<th>MON</th>
<th>TUE</th>
<th>WED</th>
<th>THURS</th>
<th>FRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture 5:00 pm - 6:20 pm York Hall 2622</td>
<td>Problem session 6:30 pm - 8:20 pm HSS 1330</td>
<td>Lecture 5:00 pm - 6:20 pm York Hall 2622</td>
<td>Discussion 10:00 am – 10:50 am York Hall 2622</td>
<td>Quiz 5:00 pm - 5:50 pm York Hall 2622</td>
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Final Examination: The final exam will be held on Wednesday, June 14, 7:00 pm – 10:00 pm. The final will cover all of the material of the course. **It will not be possible to take the exam at any other time for any reason.**

TEXT: Wolfson and Pasachoff, Physics for Scientists and Engineers, Custom edition for the University of California, San Diego, Volume 1

PREREQUISITES: Math 20A and concurrent enrollment in Math 20B. Calculus will be used extensively in lectures, problem sets and exams.

Help Is Available:

- Problem sessions and Discussions: will be held before the quizzes. During these meetings, problems will be worked out. Students are encouraged to use these meetings to help master course material and prepare for quizzes.
- Individual assistance of the Professor and TA is available during their office hours.
- The Physics Dept. tutorial center (Mayer Hall Addition 2702) is open Sunday - Thursday 3 pm - 8 pm. Their website is [http://tutorialcenter.ucsd.edu/](http://tutorialcenter.ucsd.edu/)

COURSE FORMAT: Physics 2A - Mechanics is a calculus-based science-engineering general physics course covering motion in one and two dimensions, Newton’s laws, work and energy, conservation of energy, linear momentum, collisions, rotational kinematics, rotational dynamics, equilibrium of rigid bodies, oscillations, and gravitation.
Homework Assignments:
Problem sets are assigned as selections from each text chapter. Solutions will be available on the course web site. The problems will be worked in detail during the problem sessions and discussions. The homework will not be graded, but exam problems may resemble the homework problems.

Quizzes:
A weekly Problem Quiz will be given. There will be no make-up quizzes. Your lowest two quiz scores will be dropped. You must purchase your own scantron forms for quizzes, No. F-289-PAR-L (red color). They are available at the Bookstore. You will need a No. 2 pencil to fill in the scantron. At the first quiz you will be assigned a 3-digit quiz code number. This number is yours for the rest of the quarter. You have to put your proper quiz code number on every quiz and the final. Results of exams will be posted on-line and listed by quiz code number. You may bring a calculator to the quiz but not a laptop, smartphone etc.

Clickers:
You are encouraged to participate in the lecture by utilizing the iclicker.

Grading Policy:
<table>
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<tr>
<th>Component</th>
<th>Percentage</th>
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<tr>
<td>Quizzes</td>
<td>60%</td>
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<tr>
<td>(Determined by your top 7 out of 9 quiz scores)</td>
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<tr>
<td>Final Exam</td>
<td>40%</td>
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<tr>
<td>Clickers</td>
<td>5%</td>
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<tr>
<td>(Extra Credit)</td>
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Add/Drop:
Use WebReg to add/change/drop. See course coordinator Patti Hey (contact information above) in the Physics Department Student Affairs Office if you have any problems with WebReg.

Academic Dishonesty: Every honest student benefits from maintaining high academic integrity. Please read “UCSD Policy on Integrity of Scholarship” in the UCSD General Catalog, http://www.ucsd.edu/catalog/front/AcadRegu.html. These rules will be rigorously enforced. Any confirmed case of cheating will result in an “F” grade in this course, and referral to the dean for disciplinary action. Cheating includes submitting another person’s work as your own; submitting your work as another person’s; submitting an iclicker response for another person; copying from another student on exams; knowingly allowing another student to copy from you; use of unauthorized materials during a quiz or exam; intentionally misusing code numbers; or any attempt to obtain a higher grade by means other than honest effort.