

# UAB PHYSICS

## Prof. Kawai's Homepage

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**Prof. Ryoichi Kawai**

### Office Hour

Mon 11-12, Wed 6-7

**Tel:** (205) 934-3931

**Fax:** (205) 934-8042



[kawai@uab.edu](mailto:kawai@uab.edu)

[My PGP public key](#)

### Address

Campbell Hall 309  
Department of Physics  
University of Alabama  
at Birmingham  
1300 University Blvd.  
Birmingham, AL 35294  
[Map and Direction](#)



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## Preparatory Physics: PH100-3A Course Information

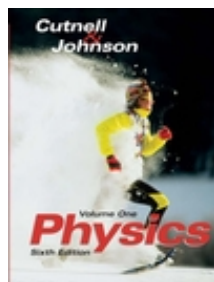
This is a one-semester introduction into how to solve simple kinematics and dynamics problems, utilizing basic algebra, trigonometry, vectors and other mathematical tools. This course may not be used to satisfy Area III of Core Curriculum.

Day and Time:	Mon. & Wed, 3:00PM-5:05PM
Room:	EB 133
Instructor:	Dr. Ryoichi Kawai
email:	kawai@uab.edu
phone:	(205) 934-3931
Office Hour:	Mon 11-12, Wed 6-7
Course Website:	<a href="http://kawai.phy.uab.edu/courses/ph100">http://kawai.phy.uab.edu/courses/ph100</a>

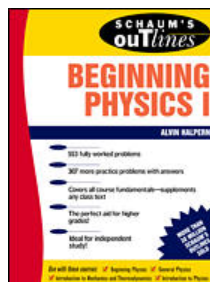
### Prerequisites

MA106: Pre-Calculus Trigonometry

### Suggested Textbook (Not Required)



*Physics, 6th Ed.*  
J. D. Cutnell and K. W. Johnson  
John Wiley & Sons, 2004  
ISBN 0-471-20940-6  
(Textbook of PH201)



*Beginning Physics I*  
Alvin Halpern  
McGraw-Hill, 1995  
ISBN:  
00700256535

### [Course Schedule](#)

### Messages from the Instructor

- The first class will meet at 3:00PM on May 31, 2006 in room **EB 133**.

### Test and Final Exam

Three tests and one comprehensive final exam will be given. No textbook nor notebook is allowed in the tests and exams. One letter-size hand-written information sheet is allowed. You can write down mathematical formulae, laws and principles of physics, physical formulae, physical constants,

and other concepts related to physics and mathematics on the information sheet. However, you are not allowed to write solutions of any problem including homework problems, example problems in textbook. A calculator may be used during exam. A make-up test may be given if unforeseen problems should happen. However, no more than one test can be made up. You must notify the instructor within a day or two of the exam day with a written reason for the make-up.

## Homework

Homework are electronically processed via an internet website: <http://capa.phy.uab.edu/>

In order to solve homework problems, you need internet access and a web browser ([Firefox](#) is recommended). Homework due is strictly enforced by computer. You are strongly advised to start homework as soon as it is assigned.

## Grading

Course grade is determined based on three tests (15 pts. each), final exam (30 pts.), and Homework (25 pts.)

 Go to [CAPA](#) online homework

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## PH100-3A Course Schedule (2006 Summer)

Date	Topics
05/31/06	1. Numbers and Units
06/05/06	2. One-dimensional Kinematics - Constant Velocity
06/07/06	3. One-dimensional Kinematics - Constant Acceleration I
06/12/06	4. One-dimensional Kinematics - Constant Acceleration II
06/14/06	5. One-dimensional Kinematics - Free Falling
06/19/06	<b>Test 1: One-dimensional Kinematics</b>
06/21/06	5. Vectors
06/26/06	6. Two-dimensional Kinematics - Vectors
06/28/06	7. Two-dimensional Kinematics - Constant Accelartion
07/03/06	9. Two-dimensional Kinematics - Projectile Motion
07/05/06	<b>Test 2: Two-dimensional Kinematics</b>
07/10/06	10. Newton's Laws of Motion - Mass, Force and Equation of Motion
07/12/06	11. Newton's Laws of Motion - Nonequilibrium Problems I
07/17/06	12. Newton's Laws of Motion - Nonequilibrium Problems II
07/19/06	13. Newton's Laws of Motion - Equilibrium Problems I
07/24/06	14. Newton's Laws of Motion - Equilibrium Problems II
07/26/06	<b>Test 3: Newton's Laws of Motion</b>
07/31/06	Review and Problem Solving
08/07/06	<b>Comprehensive Final Exam (4:15 pm -6:45 pm)</b>