SYLLABUS: PHY 2049 – PHYSICS for Scientists and Engineers II

Spring 2016 (4 sem. hrs.) - Tu-Th. from 9:00am to 10:20am.

Instructor: Enrique del Barco  Office: Physical Science (PS) 452
Office hours: Tu/Th 10:30am – 11:30am  e-mail: delbarco@physics.ucf.edu

GTA: TBA in class/website

SARC: Check on the website of the Student Academic Resource Center (www.sarc.sdes.ucf.edu) for the days and times of tutoring hours for this course. They are very helpful.


Course description: PHY2049 is the second of a two-semester sequence in introductory physics offered primarily for students majoring in Physics and Engineering. Special emphasis is placed on understanding major principles governing general phenomena in Nature, and mathematics is used as a tool to clarify concepts. Students should have a good working knowledge of algebra, trigonometry and basic calculus (derivatives and integrals).

Examinations: 55% of your grade will be determined on the basis of two 50 minutes in-class exams (2 problems and 6 multiple choice questions, 30%) and a comprehensive 150 minutes final exam (40-50 multiple choice questions, 25%). You MUST bring a number two (2) pencil and a computer scored answer sheet to the final exam. You also MUST know you student ID number and record it accurately in the proper location on the Test Form and on each written exam so that the computer can keep turn in your exam answer sheet. THERE WILL BE NO MAKE-UP EXAMS AND NO EXAMS WILL BE GIVEN EARLY OR LATE. For exceptional situations (such as Religious holiday, medical emergency, etc.) you may take an exam in a different day if you have a written request (not an e-mail) and submitted it personally to the instructor ahead of time with the appropriate documentation to justify the absence. A non-graphic, non-programmable calculator may be used during exams.

Homework: Weekly (upon each unit completion) web-assigned homework will be submitted on the WEB. The platform we will use this semester is WEBASSIGN. For instructions on how to register into www.webassign.com, go to the last page of this syllabus. You should self-enroll in both the lecture and the lab. INCLUDE YOUR UCF STUDENT ID WHEN YOU REGISTER IN BOTH COURSES. This is necessary for transferring your final lab grade to your lecture and use this CLASS KEY: ucf 2981 4682 for the lecture. Your lab instructor will give you one for the lab course. It is important that you use the same credentials than in the webassign for the lab. There is a 14 days trial period, after which, you will need to register to complete the homework. Note that the first assignment will be posted during the second week of the course. Homework will count as 15% of your final grade.

Laboratory: The laboratory will be done independently by your lab instructor and it will weight 20% towards your total course grade. Labs will be done through Webassign. Refer to the lab syllabus for details.

ILDs: Interactive Lecture Demonstrations will be performed during the course. Participation will weight proportionally up to 10% of the course grade.

Via Response (an online polls platform) will be used to keep attendance, perform ILDs and submit quizzes. ViaResponse software (and apps) can be downloaded from www.viareponse.com and installed in your smartphone or wireless laptop to use in class. A detailed user guideline and registration instructions are given at the end of this syllabus (and can be downloaded from the course website). Make sure that you use your school email (@knights.ucf.edu) and student ID, and that you sign up in my course with the following SECTION CODE: 6TJR2F. A trial period of 14 days is granted to all students to allow an immediate use of the system from the first day of class. If you don’t have a smartphone or wireless laptop, ViaResponse will facilitate an affordable smartphone with the user license included for the semester.

Grades: Your grade for this course will be calculated as follows:

Grade = 15% (homework) + 20% (lab) + 10% (ILDs+Quizzes) + 30% (two in-class exams) + 25% (final exam)

Grading scale: A 85-100%; B 75-84%; C 60-74%; D 50-59%; F 0-49%

Course information: Course information (i.e. updated tentative coverage, syllabus, class-notes, etc…) will be available at www.physics.ucf.edu/~delbarco/html/teaching.html. This webpage will be frequently updated as the course advances.
Tentative* coverage for the course:

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**EXAM** | **DATE** | **EXPECTED COVERAGE**
---|----------|-------------------
First | TBA in class | Units 1-6
Second | TBA in class | Units 7-12
Final | April 29th – 7:00am | everything

*This calendar will be adjusted to the needs of the course. Changes will be based on the course progress. The in-class exam dates will be announced on the web**.

**Check [www.physics.ucf.edu/~delbarco/teaching.html](http://www.physics.ucf.edu/~delbarco/teaching.html) regularly for updated course calendar.

**Instructions to self-enroll into Webassign for the Lecture and the Lab**
Your instructors will give you two separate Class Keys (one for Lecture and one for Lab). Please use the same username in both classes and remember to add your student ID when enrolling in the initial class/lab (This is the only place where you can add student ID and it cannot be edited.) Make sure the Student ID is input correctly before clicking “Create My Account”. It is very important that you use the same username I both courses and include your student ID so that your lab grade can be transferred properly to the lecture gradebook. Please read these instructions before you start so that you have everything you need to enroll.

To self-enroll for a class:

1. Go to the WebAssign login page (www.webassign.net), and click I have a Class Key.
2. Enter the class key your instructor gave you, and click Submit.
3. On the verification page, check the class information and determine whether or not the correct class and section is displayed.
   - If the correct class and section is listed, click Yes, this is my class and go to step 4 on page
   - If the listed class or section is not correct, click No this is not my class. Try entering your class key again, in case you might have mistyped a character. If the correct class is still not displayed, contact your instructor.
4. If you have an existing WebAssign account, select I already have a WebAssign account, type the Username, Institution, and Password for your account, and click Continue.

        You are enrolled in the class and logged in to WebAssign using your existing account.
5. If you do not have an existing WebAssign account, you can create one now.
   (a) Select I need to create a WebAssign account, and then click Continue.
   (b) Type the username that you would like to use for your WebAssign account in the Preferred Username field, and click Check Availability to see if the username that you want is available.

        Usernames are not case-sensitive, so BobSmith, bobSmith, and bobsmith are all the same username.
   (c) After confirming the availability of your new username, type a password in both the Choose a Password and Confirm password fields.

        Ensure that your password meets the displayed requirements, which might be different than those shown above. Passwords are case-sensitive, soIAmCa3sar is not the same as iamca3sar.
   (d) Enter your First Name, Last Name, Email Address, and your Student ID Number. (This is important if you want your grades recorded after the class is complete)
   (e) Click Create My Account.