

PHYSICS 1102: Introductory Physics II

Instructor: Dr. Aditi Sharma, Office: 336 Grigg / 103 Burson, Phone: 704-687-8172

Email: asharm23@uncc.edu

OFFICE HOURS:

M, T, W, Th 11:00 – 11:30 at 103 Burson (Other days by appointment at 336 Grigg)

MEETING PLACE and TIME for Class:

Section 001: 121 Burson, T Th 9:30 – 10:45 AM

Section 002: 121 Burson, T Th 3:30 – 4:45 PM

you must put **“Phys1102-am”** in the subject line of your emails to me.

you must put **“Phys1102-pm”** in the subject line of your emails to me

COURSE CONTENT:

This is the second course of the algebra-based introductory physics sequence. The course covers concepts of electric charge, electric force and field, electric potential, electric circuits, magnetic forces and fields, electromagnetic induction, electromagnetic waves, and light. This course uses concepts learned in PHYS1101. **Please review concepts especially from Ch 2, 3, 4, 6, 7.....you are expected to have a working knowledge of these topics.** You are also expected to be **proficient with vector algebra and trigonometry.**

TEXT AND REQUIRED MATERIAL:

- **“Physics”, Cutnell and Johnson, 7th Edition.** (**note:** you can get either the hardcopy or the online version through Webassign – refer Page 3).
- **WebAssign Access** for online homework. (Please purchase **online** as outlined on Page 3. The store bought access codes often do not work).
- **PRS RF Transmitter** (your clicker). Available at the bookstore. Buy new or used.
- **Blackboard:** Access the link to Blackboard through your 49er express account. You should see this course under the “My Courses” section. Please check the course page in Blackboard frequently to receive class related news, instructions, documents and your exam grades.

BRING THE FOLLOWING TO EVERY CLASS

- Pen/pencil and notebook (with a copy of the syllabus and schedule pasted inside).
- Scientific Calculator (also required for Homework, Tests and Exams)
- PRS RF Clicker

GRADING:

Homework	20%	(drop 2 lowest), students use WebAssign
Daily Quiz	15%	(drop 4 lowest), students use PRS RF clicker
Midterm Exam I	20%	
Midterm Exam II	20%	
Final Exam	<u>25%</u>	(Final exam score can replace one mid-term score)
TOTAL	100%	

Grades are assigned using a 10-point grading scale: A = 90.0-100.0, B = 80.0-89.9, C = 70-79.9, D = 60-69.9, F <= 59.9. The course is not graded on a curve.

THERE ARE NO LATE OR MAKE-UP EXAMS, QUIZZES, OR HOMEWORK. NO EXCEPTIONS!!!

THE POLICY OF

- *DROPPING A FEW LOW SCORES (HW AND QUIZZES)*
- *REPLACING THE LOWEST MID-TERM SCORE WITH THE FINAL EXAM SCORE*

IS DESIGNED TO ACCOMMODATE UNPLANNED/UNFORESEEN ABSENCES. PLAN ACCORDINGLY!

PLACE AND TIME FOR EXAMS:

MIDTERM EXAMS: Fridays (9/25, 11/13), 12:00 PM - 1:45 PM, (dates and room nos. pending confirmation from registrar's office)

FINAL EXAM: Saturday, Dec 12, 3:00 PM – 5:30 PM (check university exam calendar for room information)

EXTRA INFORMATION AND COURSE POLICIES:

- **ALL CELL PHONES AND PAGERS MUST BE TURNED OFF DURING CLASS**
- The Physics department home page contains useful links: <http://physics.uncc.edu/>
- **YOU ARE RESPONSIBLE FOR ALL MATERIAL COVERED IN CLASS, IN HOMEWORK ASSIGNMENTS, ON QUIZZES, AND IN ASSIGNED READING.**
- Quizzes
 - Students will **use their PRS clicker** to participate in daily quizzes. **NO Paper submissions** allowed.
 - **Daily quizzes will be graded.** You will receive 3 points for a correct response, 1 point for an incorrect response, 0 points for no response.
 - There will be **NO MAKE-UP Quizzes.** The **lowest 4 daily quiz scores will be dropped** to take care of missed quizzes (whatever the reason). Save these for emergencies, do not squander away these concessions.
 - If you forget to bring your clicker to class or run out of batteries, that day's quiz will count towards one of the 4 scores dropped. Or notify me at the **beginning of class** and I will give you the attendance credit.
- Homework
 - **LATE HOMEWORK WILL NOT BE ACCEPTED.**
 - You are encouraged to work together on homework but it is to your benefit to make sure you learn from each other rather than simply copy.
 - Please take advantage of help available at the **Physics Resource Center**, located in **Burson 135A** (hours are M – Th, 9am - 5pm and T additional session from 5 – 8 pm).
 - For individual tutoring, go to the Department of Physics office (Burson 100) or to the University Learning Center (318K Fretwell, Phone: 704 687 2163).
 - The **two lowest homework grades will be dropped** at the end of the semester. There will be **NO MAKE-UP HOMEWORK.**
 - Solutions will be available in glass cabinet outside your lab (**131 Burson**) after the due date.
- Exams
 - There will be **NO MAKE-UP EXAMS. NO EXCEPTIONS. PLAN ACCORDINGLY.**
 - The **final exam is comprehensive.**
 - One midterm exam score can be replaced by the Final Exam score if higher.

You must completely **do your own work on the quizzes, mid term exams, and the final.** Failure to do so will be a violation of academic integrity. There will be consequences. See below.

ACADEMIC INTEGRITY:

Academic honesty and integrity are essential to the existence and growth of an academic community. Without maintenance of high standards of honesty, members of the instructional faculty are defrauded, students are unfairly treated, and society itself is poorly served. Maintaining the academic standards of honesty and integrity is ultimately the formal responsibility of the instructional faculty; and this responsibility is shared by all members of the academic community.

All UNC Charlotte students have the responsibility to be familiar with and to observe the requirements of **The UNC Charlotte Code of Student Academic Integrity** (see the Catalog). This Code forbids cheating, fabrication or falsification of information, multiple submission of academic work, plagiarism, abuse of academic materials (such as Library books on reserve), and complicity in academic dishonesty (helping others to violate the Code). Any further specific requirements or permission regarding academic integrity in this course will be stated by the instructor, and are also binding on the students in this course. Students who violate the Code can be punished to the extent of being permanently expelled from UNC Charlotte and having this fact recorded on their official transcripts. The normal penalty is zero credit on the work involving dishonesty and further substantial reduction of the course grade. In almost all cases, the course grade is reduced to "F." If you do not have a copy of the Code, you can obtain one from the Dean of Students Office or access it online at www.legal.uncc.edu/policies/ps-105.html . Standards of academic integrity will be enforced in this course.

Students are expected to report cases of academic dishonesty they become aware of to the course instructor who is responsible for dealing with them.

- No cell phones or other electronics at all during exams.
- Students with cell phones or other wireless communication devices during an exam will have the exam taken up and receive no credit for the exam.
- Students will be required to show their university ID upon turning in exams.

Please complete the following before 2nd day of class

WebAssign: Online Homework System (20% of your grade)

- You must **register yourself with WebAssign and purchase access to it**. Please read instructions on the course page in Moodle (or Blackboard) before you proceed to login and register.
- Go to: <http://www.webassign.net/login.html> .
 - use your **49er Express username** as your username
 - use “physics” as the password. Once you login successfully, please change your password.
- Once you have logged in, you can go ahead and **pay for WebAssign** using an access code or by purchasing access online.
 - It is **highly recommended that you purchase the access code online** itself. The store bought codes often do not work.
 - If you already have a store bought code, you may want to first try the “access code check” link in Moodle/Blackboard. If your code – prefix is not listed you will have to return it and purchase online.
- The WebAssign access code can be purchased online for \$33.20. For an additional \$17.25, you can purchase access to the ebook (i.e the online textbook). So a total of \$50.45 gives you access to the WebAssign HW management system as well as the online textbook.
- If you purchase the ebook through WebAssign, you will have an active link to the textbook when you are in WebAssign working on your homework. The ebook is sufficient for this class and may be used as an alternative to a hardcopy/print version of the text.
- **Note:** WebAssign will allow you free access for the first 2 weeks, but after this grace period expires you will not be able to access your HW without purchasing access. The exact date and time of expiry will be listed on WebAssign, when you log in.
- Additional information can be found at <http://www.webassign.net/guide/>

PRS Personal Response System (Your “Clicker”, required for in-class quizzes, 15% of your grade)

- All students in the course must have their own clicker. We are only using the RF clickers now (please do not buy the IR clickers).
- You must register your clicker online, this is **needed for you to receive credit** for your clicker responses in class. You **must use an ON-CAMPUS computer** to access the registration website (You will not be able to register using an off-campus computer or from your dorms).
 - Go to <http://physics.uncc.edu>. Select (from the list on the left) **Student Resources** -> **Register your clicker**. Select the link to register your clicker (**you must be on-campus**).
 - Enter the required information. Please note the following
 - Enter your **name as it appears in Banner** (do not use nicknames, middle names, etc.).
 - Select **your course and section number**. I teach more than one section and course. Do not register yourself in the wrong section.
 - Enter your clicker's **Radio ID number**. Instructions on how to obtain this information, are available on the registration website.
- You **must enter your ninernet ID into your clicker's Student ID field**. If you do not do this, the software on my computer will not recognize your clicker and you will not receive credit for your responses.
- **If you buy a used clicker** don't forget to enter your own ninernet ID to replace the previous owners ID.
- You can also download a copy of the **PRS user guide** if you don't have one. The link is above the link for registering your clicker. It is your responsibility to read through the user guide and become somewhat familiar with its basic features immediately.