

Physics 1402 (62610), Fall 2013

Northwest College

Instructor: Ata Zamani

Time and Room: MoWe, (6:00 – 9:00) pm, Monday Room 610, Wednesday Room 205.

Email : ata.zamani@hccs.edu

Course : Non-calculus-based. For pre-medical, pre-dental, architecture, construction management, not for engineering or majors. Contact your school regarding transferability of this course.

Prerequisites: College Algebra (Math 1314) or Trigonometry (Math 1316) and Physics 1401.

Course Text: Physics by James S. Walker, Fourth Edition.

Last Day for Administrative/student Withdrawals is November 1 at 4:30 pm.

Scientific calculator, highly recommended.

Exams: All exams will be closed book and closed notes. Exams will include problems similar to both homework, and examples/concepts as discussed in class. A formula sheet will be issued for each exam. **Make-up exams are not administered. If you do not appear for an exam, for any reason, it will be graded as a zero. The final exam is mandatory. No exams are “dropped”.**

Academic Responsibility:

Please refer to the Student Handbook concerning grievances, complaints, discipline (including student conduct), scholastic dishonesty and student rights. Please contact me if you require any reasonable accommodation to achieve your academic responsibilities.

Lab: Make-up labs are not administered. Laboratory concepts will be discussed prior to the beginning of the lab.

Course Content: Chapters 17 thru 32. Some sections of chapters may be dropped.

Exam Schedule:

| | | |
|------------|-----------------|-----|
| Exam 1 | Ch. 17,18,19,20 | 20% |
| Exam 2 | Ch. 21,22,23,24 | 20% |
| Exam 3 | Ch. 25,26,27,28 | 20% |
| Final Exam | Ch. 29,30,31,32 | 20% |

Grade Calculation:

| | |
|----------------------------|-----|
| Four exams | 80% |
| Homework and Participation | 10% |
| Laboratory and Quizzes | 10% |

Grading Scale: 100-90 = A, 89-80 = B, 79-70 = C, 69-60 = D, <60 = F

Attendance: Students are expected to attend all classes. Texas state guidelines and HCCS policies require that student with more than **12% absences** be withdrawn from the class. Effectively, students are subject to withdrawal when 3 classes are missed in the summer sessions and 4 classes in the regular semester. Attending class and paying attention is the key to a good grade. Stay current in your studies – be prepared for lectures. Class participation will be monitored and often adds to the course. Please do not hesitate to contact me if you are struggling with the class.

Syllabus subject to change.

Important: The state of Texas has begun to limit the money it will contribute to a student's education. The state contributes only to the first 2 times a student registers for a course. Students are charged additional fees for subsequent registrations.

Americans With Disabilities Act (ADA): Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Services Office at their college at the beginning of each semester. Faculty members are authorized to provide only the accommodations requested by the Disability Support Services Office.

TASP Requirements: All students are expected to have taken the TASP exam before registration. Contact any counselor for information. Based upon HCCS policy, students can be administratively withdrawn if they have not taken the TASP exam.

Attendance/Tardy Withdrawal: I strongly discourage coming late to class. You miss important information when you are tardy. It is extremely difficult to understand a lesson when you catch it midway, not knowing how it began. You cannot make up time lost from a test due to tardiness.

Assessment/Make-up: There are assigned homework problems after every section discussed in class. There is no make-up for a missed Exam. Before each class session begins, I will address your questions on the homework.

There are four (4) major tests at specified dates in the course timeline. These dates are given in advance so that you can prepare upfront.

Exams: All exams will be closed book. Exams will be "shown all of your work" and will include problems similar to homework problems, text example problems and concepts as discussed in class. **You must show all of your work, no work, no credit, even if you state the correct**

answer. You will require buying 4 scantron sheets from your local bookstore (Form No.882-ES) for all exams and homework assignments during the course. **Make up exams are not administered.**

Academic Responsibility: It is the student responsibility to be aware of HCCS attendance, conduct, and academic conduct requirements. It is the student's responsibility to withdraw from the course by the appropriate date as listed in the schedule. Please read the Student's Handbook. Any students using unauthorized material on a test or lab report, is subject to administrative withdrawal from the course and/or a grade of zero for the respective test or report. Other disciplinary action may be taken as appropriate. Should the student have any grievance or problem dealing with any aspect of the course, please talk with your instructor, **outside of class.**

Homework: Homework will be collected when indicated by the instructor. Homework is to be submitted in a college-ruled notebook (Mead Composition 09932 or quadrule 09926) devoted exclusively to homework problems. No loose page homework assignments will be accepted. The homework assignments will be from problems at the end of every chapter in the textbook.

Official Withdrawal: Students remaining and participating in the class after the official withdrawal date will receive a grade. It is the responsibility of students to withdraw themselves.

Instructor may withdraw students with excessive absences.

CELLULAR PHONES OR OTHER SIMILAR DEVICES SHOULD BE IN THE OFF OR VIBRATION MODE DURING THE CLASS SESSIONS. THERE WILL BE BREAKS 10 MINUTES BEFORE THE HOUR EVERY HOUR. NO OTHER BREAKS ARE ALLOWED.

Houston Community College PHYSICS 1402 Fall 2013**Tentative Schedule**

| <u>Week</u> | <u>Day</u> | <u>Date</u> | <u>Chapter</u> |
|--------------------|-------------------|--------------------|------------------------------------|
| 1 | M | 8/26 | 17 |
| | W | 8/28 | 17 |
| 2 | M | 9/2 | Labor Day Holiday, No Class |
| | W | 9/4 | 18 |
| 3 | M | 9/9 | 19 |
| | W | 9/11 | 19 |
| 4 | M | 9/16 | 20 |
| | W | 9/18 | 20 |
| 5 | M | 9/23 | Exam 1 (17,18,19,20) |
| | W | 9/25 | 21 |
| 6 | M | 9/30 | 22 |
| | W | 10/2 | 22 |
| 7 | M | 10/7 | 23 |
| | W | 10/9 | 23 |
| 8 | M | 10/14 | 24 |
| | W | 10/16 | 24 |
| 9 | M | 10/21 | Exam 2 (21,22,23,24) |
| | W | 10/23 | 25 |

| | | | |
|-----------|----------|--------------|---|
| 10 | M | 10/28 | 26 |
| | W | 10/30 | 26 |
| 11 | M | 11/4 | 27 |
| | W | 11/6 | 27 |
| 12 | M | 11/11 | 28 |
| | W | 11/13 | 28 |
| 13 | M | 11/18 | Exam 3 (25,26,27,28) |
| | W | 11/20 | 29 |
| 14 | M | 11/25 | 30 |
| | W | 11/27 | No Class, Thanksgiving Holiday |
| 15 | M | 12/2 | 31 |
| | W | 12/4 | 32 |
| 16 | M | 12/9 | Review For Final Exam |
| | W | 12/11 | Final Exam (29,30,31,32), (6:30-8:30) pm |

Physics 1402 (Homework Assignments)

Textbook: Physics by James S. Walker (Fourth Edition)

Chapter 17: 10, 14, 30, 39, 58, 60, 66, 68, 72, 73

Chapter 18: 10, 21, 26, 30, 40, 49, 52, 61, 79, 87

Chapter 19: 22, 23, 26, 29, 34, 47, 52, 78, 84, 94

Chapter 20: 10, 18, 34, 39, 55, 62, 70, 96, 99, 102

Chapter 21: 18, 31, 43, 46, 49, 53, 72, 98, 106, 129

Chapter 22: 11, 24, 34, 37, 50, 72, 84, 92, 98, 113

Chapter 23: 18, 55, 63, 65, 73, 89, 91, 97, 104, 105

Chapter 24: 12, 23, 33, 38, 48, 58, 88, 96, 101, 106

Chapter 25: 23, 41, 47, 52, 61, 67, 74, 91, 96, 102

Chapter 26: 26, 29, 33, 39, 43, 56, 60, 77, 85, 87

Chapter 27: 25, 28, 35, 41, 48, 60, 69, 72, 90, 105

Chapter 28: 5, 7, 18, 23, 36, 46, 55, 67, 75, 83

Chapter 29: 7, 9, 15, 19, 29, 35, 39, 47, 51, 55

Chapter 30: 21, 23, 27, 31, 35, 41, 47, 51, 55, 57

Chapter 31: 21, 27, 31, 41, 73, 75, 77, 79, 83, 85

Chapter 32: 9, 17, 21, 37, 43, 49, 53, 57, 69, 73

Lab Report should include the following:

- 1. Cover Page (Your Name, Group Members, Title of the Experiment)**
- 2. Table of Contents**
- 3. Introduction**
- 4. Procedure**
- 5. Data and Calculations**
- 6. Conclusion**
- 7. References**