

SYLLABUS

PHYSICS 122 JAN-MAY 2008 DR. S. M. NEUDER

<i>DATE</i>	<i>CHAPTER/TITLE</i>	<i>ASSIGNMENT/ACTIVITY</i>
Jan 28	15. Electric Forces and Fields	Ch. 15: 4, 12, 15, 16, 26, 50, 63
Jan 30	15. “ “	
Feb 1	15. “ “	<u>Quiz #1</u>
Feb 4	15/16. Electric Energy/Capacitance	Ch. 16: 7, 15, 28, 29, 32, 34, 44
Feb 6	16. “ “	Ch. 15 HW due.
Feb 8	16. “ “	<u>Quiz #2</u>
Feb 11	16. “ “	
Feb 13	16/17. Current and Resistance	Ch. 17: 15, 27, 32, 34, 53
Feb 15	17. “ “	<u>Quiz #3</u> ; Ch. 16 HW due.
Feb 18	17. “ “	<u>Quiz #4</u>
Feb 20	17. “ “	
Feb 22	15/16/17. “ “	<u>Test I</u> (15, 16, 17); Ch. 17 HW due. Ch. 18: 2, 5, 12, 20, 29, 37, 64
Feb 25	18. Direct Current Circuits	
Feb 27	18. “ “	
Feb 29	18. “ “	<u>Quiz #5</u>
Mar 3	18/19. Magnetism	Ch. 19: 8, 14, 18, 26, 31, 38a,b, 46
Mar 5	19. “	Ch. 18 HW due.
Mar 7	19. “	<u>Quiz #6</u>
Mar 10	19. “	
Mar 12	19/20. Induced Voltage/Inductance	Ch. 20: 15, 18, 20, 22, 28, 35a,b, 49
Mar 14	20. “ “	<u>Quiz #7</u>
Mar 24	20. “ “	<u>Quiz #8</u> ; Ch. 19 HW due.
Mar 26	20. “ “	
Mar 28	20/21. Electromagnetic Waves	<u>Quiz #9</u> ; Ch. 21: 40, 43, 51, 52, 56, 63, 65
Mar 31	21. “ “	<u>Test II</u> (18,19,20); Ch 20 HW due.
Apr 2	21. “ “	
Apr 4	21. “ “	<u>Quiz #10</u>
Apr 7	21/22. Reflection/Refraction/Light	Ch. 22: 9, 13, 28, 31, 34, 38, 43
Apr 9	22. “ “	Ch 21 HW due.
Apr 11	22. “ “	<u>Quiz #11</u>

Apr 14	22.	“	“	
Apr 16	22/23.	Mirrors and Lenses		Ch. 23: 5, 7, 15, 25, 26, 29, 42, 53
Apr 18	23.	“	“	<u>Quiz #12</u> ; Ch 22 HW due.
Apr 21	23.	“	“	
Apr 23	23.	“	“	
Apr 25	23/24.	Wave Optics		<u>Quiz #13</u> ; Ch. 24: 5, 8, 23, 27, 31, 37, 46, 48
Apr 28	24.	“	“	<u>Test III</u> (21, 22, 23); Ch. 23 HW due.
Apr 30	24.	“	“	
May 2	24.	“	“	<u>Quiz #14</u>
May 5	24/25/27/28/29.	Selected Topics		Selected assigned exercises.
May 7	“	“	“	Ch. 24 HW due.
May 9	“	“	“	<u>Quiz #15</u>
May 12	Selected Topics/Prep for Final			Selected assigned exercises due.
May 21			<u>FINAL EXAM</u>

UNIVERSITY OF MARYLAND, PHYSICS 122, SPRING 2008, DR.S M NEUDER

Course: Physics 122, Jan 28 – May 12. Lecture M/W/F, 10 – 10:50 am, rm 1412
Section: 0101 M 11am; 0102 W 11am; 0103 T 11 am; 0104 T 1 pm;
0105 W 1 pm; 0106 Th 9am; 0107 Th 1 pm; 0108 M 1pm.

Instructor: Dr. Stanley M. Neuder, E-mail: neuder@umd.edu

Office: Room 1208 – 1214 Physics building, by appointment.

Text: College Physics by Serway/Faughn, vol. 2, 7th edition.

Chapters: Chapters 15 – 24 in detail plus selected short topics in chapters 25 – 29.

Syllabus: www.physics.umd.edu/academics/courses/physics_122/neuder

This includes: schedule of tests, quizzes, assignments, course policies, and much information essential to your success in this course. The syllabus is a *guide* and thus subject to minor changes only if necessary.

Exams: There are 3 tests approximately 50 minutes each, a final test no longer than 2 hours, and 15 short, multiple choice - type quizzes. Test questions are similar to the homework assigned, and to examples done in the text and in lecture. Quiz questions are generated from physics concepts discussed in the text and in class, and require little or no computations.

Make-ups: You should strongly avoid missing a test, since each test counts more than 9% of your semester grade average. Approval for a makeup must be obtained prior to the test. Approval is based on written confirmation. There are no make-ups for missed quizzes.

Homework: Assigned homework exercises for each chapter and their due dates are listed in the syllabus. Homework should be submitted in lecture on the date due, before the start of the lecture. Your submittal sheets must be stapled together, with your name and your TA's name on the top sheet. Solutions to the homework problems will be posted just after the due date, on the hallway bulletin board at the lecture hall entrance.

Participation: You are expected to be present for all lectures and discussion classes, and required to complete every lab assignment. Completing homework, class presence, and contribution to discussions are part of participation.

Success: There are several steps to master the course: 1. Do and understand the assigned homework. 2. Read the text for concepts and explanations. 3. Read/do and understand the many examples work out for you in the text. 4. Do additional easier exercises at the end of the chapter to get an understanding of the basics. 5. Capture the concepts and the focus of the subject as discussed in lecture. 6. Read ahead. 7. Stay current.

Assistance: Tutoring by TAs may be obtained in the Physics Center (room 0208) Check posted schedule for availability. Also visit the Physics Clinic, M-F room 1208 – 1214, 10 - 3 pm. I am available by appointment, as needed.

<u>Grading:</u>	Three Tests	300 points	Candidates for an A.....	> 88%
	Final Exam	150 points	B.....	> 77%
	Fifteen Quizzes	150 points	C.....	> 66%
	Homework	200 points	D.....	> 55%
	Labs	200 points		
	Participation	100 points <i>Total maximum = 1100 points</i>	