

PHYS 202 College Physics Summer 2018
MTWRF 9-10:35 am in MPHY 203

Course Description: Fundamentals of electricity, magnetism, optics and modern physics.

Prerequisites: High school algebra and trigonometry or the equivalent. PHYS 201.

Learning Outcomes: Upon completion of PHYS 202 a student will understand the basic laws and concepts of physics in the following areas and will be able to apply them in problems relating to physical situations: electricity, magnetism, optics and modern physics .

Instructor: Siu A. Chin **Web page:** faculty.physics.tamu.edu/chin **email:** chin@physics.tamu.edu

Office: MPHY 407 **Office Hours:** M 3 - 5 p.m., WRF 3-4 p.m. **Phone:** call office (979)845-7717

Text: Physics 10th ed Volume 2 by Young, Adams and Chastain and with Modified Mastering Physics

Access Mastering Physics in eCampus

There are tutorial problems and pre-lecture videos assigned in Mastering Physics (for grade) in addition to the problems from the textbook that are listed on the syllabus.

Grading: 3 exams 55%; Final (comprehensive) 20%; Lab 10%; Recitation 5%; Homework (Mastering Phys) 10%

Scale: 90-100 A, 80-89 B, 60-79 C, 45-59 D, <45 F. Grades may be curved upward. Follow university policy on making up missed work.

You must achieve 70% or better in the laboratory in order to pass the course.

If your grade on the Final Exam is higher than your lowest grade on one of the three exams during the semester, that lowest grade will be replaced by its average with the Final in computing the course grade.

Course syllabus is on the next page in calendar form.

Americans with Disabilities Act (ADA) Policy Statement: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. **If you believe you have a disability requiring an accommodation, please contact Disability Services, currently located in the Disability Services building at the Student Services at White Creek complex on west campus or call 979-845-1637. For additional information, visit <http://disability.tamu.edu>.**

Academic Integrity Statement: “An Aggie does not lie, cheat, or steal or tolerate those who do.”

The Honor Council Rules and Procedures may be found on the web at <http://www.tamu.edu/aggiehon>

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3 Chapter 17:1-5 Electric forces and field MChoice: 3, 5, 6. Problems:10,12,14,19,21, 32,33, 34,40,41,42,63,69, 70	4 No class	5 Chapter 17:6-9 Electric field; Gauss's law MChoice:7,11 Problems: 54,56,57,62 CH17 DUE: 11:59 pm	6 Chapter 18:1-4 Potential; capacitors MChoice: 2,3,9,11 Problems:1,4,10,13, 15,18,19,21,30,36,41 45,46,68,71,72,	7
8	9 Chapter 18:5-7 Networks; dielectrics Problems: 53,55,56,60,61,63 CH18 DUE: 11:59 pm	10 Chapter 19:1-5 DC circuits, resistor MChoice:2,4,7,10,11,12 Problems:5,17,27,28,29, 31,38,44,45,46,47,65,68 76	11 Chapter 19:5,6,8 Multi-loop, RC circuits Problems:50,52, 53,59,60,79,80,82 CH19 DUE: 11:59 pm	12 Chapter 20:1-6 Magnetic force and torque MChoice:1,3,5,6,7,8,9 Problems:4,8,10,14,18,23, 28,28	13 Chapter 20:7-10 Magnetic fields of wires Problems:30,33,48,49,51, 57,62,73,74,78	14 CH20 DUE: 11:59 pm
15	16 Chapter 21:1-6 Induced emf MChoice:2,5,8,11,12 Problems:2,4,7,10,12,13, 15,16,20,24,27,28	17 Exam 1: Chapters 17-19	18 Chapter 21:7-12 Inductance; RL and LC Problems:31,35,42,43,47, 52,53,54,59 CH21 DUE: 11:59 pm	19 Chapter 22:1-5 AC circuits MChoice:4,5,6,12 Problems:11,14,16,18,24, 25,26,28,36,37,38 CH22 DUE: 11:59 pm	20 Chapter 23:1-10 EM waves MChoice:2,3,6,9,10 Problems:13,14,16,20,21, 39,44,52,54,61,67,68,71, 76	21 CH23 DUE: 11:59 pm
22	23 Chapter 24:1-4 Images MChoice:6,12 Problems:8,11,14,15,17,55	24 Exam 2: Chapters 20-22	25 Chapter 24:5-6 Thin lenses Chapter 25:1-5 optical instruments MChoice:2,3,6 Problems:20,21,25,26,27, 30,37,41,43,47,48 CH24 DUE: 11:59 pm	26 Chapter 26:1-3 Interference, thin films. MChoice:25-7,8 Problems:25-9,15,17,25, 29,35 CH25 DUE: 11:59 pm	27 Chapter 26:4-8 Diffraction MChoice:2,5,8,9,11,4,7,12 Problems:3,7,9,19,22,49 51,55,26,28,33,40,41,43	28 CH26 DUE: 11:59 pm
29	30 Chapter 28:1-5 Photo effect; Bohr's atom MChoice:1,7,10 Problems:6,9,11,17,23,24,26, 33,35,38,40,42,46 8/6 Review	31 Exam 3: Chapters 23-26 8/7 Final Exam 10-12 noon	8/1 Chapter 28:6-8 Compton Chapter 29:1-2 Atoms MChoice:29-1,9,10 Problems:29-2,8,13,37 CH28-29 DUE: 11:59 pm	8/2 Chapter 30:1-3 Nuclei, radioactivity MChoice:3,4,11 Problems:5,8,10,12,18 20,60	8/3 Chapter 30:5-7 Nuclear reactions Problems: 33,37,38 CH30 DUE: 11:59 pm	