Physics 202 G	Physics 202 College Physics	
<u>Instructor</u> : Artem G. Abanov <u>Office Phone</u> : 5-7799 <u>Office Hours</u> : TR 12:00-1:30		<u>ice</u> : ENPH529 abanov@tamu.edu
<u>Text</u> : <u>Physics</u> 8th Ed. by Young& O Physics 202 Lab Manual <u>Optional</u> : Student Solutions Manual <u>Grading</u> :		- ·
	4 Exams Final (Comprehensive) Laboratory	$\begin{array}{c} 60\% \\ 20\% \\ 10\% \end{array}$

Recitation

Homework (Mastering Physics) 5%100%

10%5%

You must achieve a 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 four exams during the semester, the grade on the Final will replace that one lowest exam grade in computing the course grade. The Final Exam grade **cannot** be used to replace an exam that has been missed.

Note: January 26 is the last day to drop with no record. April 6 is the last day to Q-drop

Final Exam:

Syllabus: ("M	C" denotes	Multiple	Choice	Problems)
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Week	Date	Topic	Sections in Text	Problems
1	Jan. 20 T Jan. 22 R	Coulomb's law electric field; field lines	17:1-4 17:5-7	MC17: 3, 4, 7, 8 17: 10, 12, 14, 21, 34, 41, 42, 43, 65, 71, 72
2	Jan. 27 T Jan. 29 R	Gauss' law; examples potential; capacitors	17:8-9 18:1-5	MC17: 9; 17: 53, 55, 57, 61, 64 MC18: 2, 4, 5, 11, 14 18: 1, 4, 12, 16, 22, 24, 38, 44, 75, 78, 81, 82
3	Feb. 3 T Feb. 5 R	capacitors; review Exam I	18:6–9 Chapts.17, 18	MC18: 3, 7; 18: 53, 54, 63, 64, 70, 71
4	Feb. 10 T Feb. 12 R	Ohm's law; resistor networks Kirchhoff's rules; RC circuits	$19{:}1{-}5\\19{:}6{-}8$	MC19: 2, 3, 5, 6, 10, 13, 14, 15 19: 6, 18, 29, 31, 33, 42, 48, 50, 51, 52 19: 57, 59, 60, 72, 75, 85, 88
5	Feb. 17 T Feb. 19 R	magnetic forces sources of magnetic field	20:1-6 20:7-10	19: 66, 91; MC20: 2, 4, 7, 8, 11 20: 4, 8, 11, 14, 18, 20, 23, 29, 31, 34, 82
6	Feb. 24 T Feb. 26 R	Faraday's law; Lenz's law inductance	21:1–6 21:7–12	MC20: 6; 20: 50, 51, 53, 59, 64, 70, 86, 88 MC21: 2, 6, 10, 14, 15 21: 4, 7, 12, 13, 16, 17, 21, 25, 64

Week	Date	Topic	Sections in Text	Problems
7	Mar. 3 T Mar. 5 R	examples; review Exam II	Chapts. 19–21	MC21: 13; 21: 28, 29, 33, 37, 49, 54, 55, 62, 72
8	Mar. 10 T	ac circuits; resonance	22:1-5	MC22: 5, 6, 7, 14
	Mar. 12 R	EM waves	23:1-8	$22:\ 11,\ 12,\ 19,\ 25,\ 26,\ 27,\ 36,\ 41,\ 45,\ 46,\ 47$
9	Mar. 24 T	polarization; mirrors	23:10; 24:1–3	MC23: 1, 2, 3, 8, 11, 12; 23: 14, 16, 21, 44 23: 47, 57, 59, 66, 67, 73, 74, 78, 84
	Mar. 26 R	refraction; thin lens	24:4-6	MC24: 2, 3, 6, 9; 24: 3, 8, 14, 15, 18, 21, 22 24: 28, 29, 31, 33, 41, 45, 47, 52, 55, 56, 58, 59
10	Mar. 31 T Apr. 2 R	optical instruments Exam III	25:1–6 Chapts. 22–25	MC25: 9, 10, 15; 25: 9, 11, 20, 22, 30, 31, 34, 40
11	Apr. 7 T Apr. 9 R	interference diffraction	$26{:}1{-}3$ $26{:}4{-}8$	MC26: 2, 4, 8, 9, 10, 13 26: 4, 7, 9, 27, 28, 34, 44, 47, 48, 54 26: 55, 59, 63, 64, 68
12	Apr. 14 T Apr. 16 R	atoms and photons waves-particles; atoms	28:1-5 28:6-8	MC28: 1, 2, 3, 4, 5, 10, 13, 16 28: 3, 9, 11, 19, 21, 24, 27, 28, 35, 36 28: 41, 45, 49, 50, 55, 60
13	Apr. 21 T Apr. 23 R	atomic structure; review Exam IV	29:1–2 Chapts. 26, 28, 2	MC29: 1, 6, 8, 9, 10; 29: 2, 5, 6, 7, 13, 14, 31, 40 9
14	Apr. 28 T Apr. 30 R	nuclei; radioactivity nuclear reactions; review	$30{:}1{-}4$ $30{:}5{-}7$	MC30: 3, 8, 11, 12, 14, 15 30: 1, 3, 5, 10, 12, 15, 18, 20, 33, 39, 53, 64

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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 the Department of Student Life, Services for Students with Disabilities, in Cain Hall, Room B118, or call 845-1637.

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An Aggie does not lie, cheat, or steal or tolerate those who do.

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