

# PHYSICS 135 Syllabus Spring 2019 MWF 1:25 - 2:15 Room 306 Physics

Last update January 3, 2019, YK

Introduction to Physics for Physical Science and Mathematics Majors I

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#		Date	Lab	Study/Test	Material in Class/Test	HW due	Comments	HW Ch
1	W	J09	No Labs this week		Introduction, Rules		Bring your clicker to class	
2	F	J11		Appendix E	Calculus Overview			
3	M	J14		Chapter 1	Measurements			
4	W	J16	EXCEL, Statistics	Chapter 1	Errors of measurements	HW1		1
5	F	J18		Chapter 2	Linear Motion			
	M	J21					MLK day no classes	
6	W	J23	EXCEL, Statistics	Chapter 3	Vectors	HW2		2
7	F	J25		Chapter 4	2D and 3D motion			
8	M	J28		Chapter 4	2D and 3D motion			
9	W	J30	Gravity Acceleration	Chapter 5	Newton's Laws	HW3		3,4
10	F	F01		Chapter 5	Force and Motion I			
11	M	F04		Chapter 6	Force and Motion II			
12	W	F06	Force Table	Chapter 7	Kinetic Energy and Work	HW4		5,6
	F	F08		Test #1	Chapters 1-6			
13	M	F11		Chapter 7	Kinetic Energy and Work			
14	W	F13	Newton's Second Law	Chapter 8	Potential energy	HW5		7
15	F	F15		Chapter 8	Conservation of Energy			
16	M	F18		Chapter 9	Center of mass			
17	W	F20	Conservation of Energy	Chapter 9	Linear Momentum	HW6		8
18	F	F22		Chapter 10	Rotation			
19	M	F25		Chapter 10	Rotation			
20	W	F27	Conservation of Linear Momentum	Chapter 11	Rolling and Torque	HW7		9,10
21	F	M01		Chapter 11	Angular Momentum			
22	M	M04		Chapter 12	Static Equilibrium			
23	W	M06	Centripetal Acceleration	Chapter 12	Elasticity	HW8		11
	F	M08		Test #2	Chapters 7-11			
24	M	M11		Chapter 13	Gravitation			
25	W	M13	Simple Pendulum & Hooke's Law	Chapter 13	Gravitation	HW9		12,13
26	F	M15		Chapter 14	Fluids			
	M-F	M18-22	No Labs this week				Spring Break, no classes and Labs	
27	M	M25		Chapter 14	Fluids			
28	W	M27	Buoyancy & Eq. of Continuity	Chapter 15	Oscillations	HW10		14
29	F	M29		Chapter 15	Oscillations			
30	M	A01		Chapter 16	Waves I			
31	W	A03	Standing Waves I & II	Chapter 16	Waves I	HW11		15,16
32	F	A05		Chapter 17	Waves II			
33	M	A08		Chapter 17	Waves II			
34	W	A10	Boyle's Law	Chapter 18	Temperature and Heat	HW12		17
	F	A12		Test #3	Chapters 12-17			
35	M	A15		Chapter 18	1-st Law of Thermodynamics			
36	W	A17	Heat and Fusion of Ice	Chapter 19	Kinetic Theory of Gases	HW13		18
	F	A19					Spring Recess Day, no classes	
37	M	A22		Chapter 19	Kinetic Theory of Gases			
38	W	A24	Lab. Makeups / Lab Final	Chapter 20	Entropy			
39	F	A26		Chapter 20	2-nd Law of Thermodynamics		Last class	
	S	A27				HW14		19,20
	M	M06	Comprehensive	Final Test	Chapters 1-20	Monday, May 06, 12:30 - 02:30 pm in Phys306		

Textbook: Halliday & Resnick + Walker, Fundamentals of Physics,  $\geq 10e$ , Volume 1, Wiley

Home Work website: <http://www.webassign.net> can be accessed via CANVAS • Clicker channel in class # 17

Final Class Grade: Labs 25%; Home Work 25%; Class Attendance 10%; Tests in Class #1-3 each 10%, Final test 10%. Clicker in class + extra 10%

This Syllabus is tentative; see latest updated version at: <http://web.utk.edu/~kamyshko/P135/P135-Spring-2019.pdf>