ST. LAWRENCE UNIVERSITY

Physics 103B - College Physics
Dr. Catherine Jahncke • Fall 2011 Course Schedule

DATE	TOPIC	CHAPTER	ASSIGNMENTS
8-24 W	Introduction, Scientific notation, Units	1	#0 Λ
8-26 F	Motion: Position, Displacement, Velocity	2.1-2.2	
8-29 M	Acceleration, Motion Along a Line with Constant Acceleration	2.3-2.4	#0① #1Λ
8-31 W	Visualizing Motion Along a Line, Free Fall	2.5-2.6	#0②
9-2 F	Vector Addition, Graphical and Mathematical	3.1-3.2	
9-5 M	Velocity and Acceleration in a Plane	3.3-3.4	#2Λ, #1①
9-7 W	Motion in a Plane w/ Constant Acceleration	3.5	#1②
9-9 F	Projectile Motion Practice		
9-12 M	Force & Newton's 1st Law	4.1-4.2	#3Λ, #2①
9-14 W	Contact Forces & Tension	4.6-4.7	#2②
9-16 F	Newton's 2nd and 3rd Laws	4.3-4.4	
9-19 M	Applying Newton's 2nd Law	4.8	#3①
9-21 W	Exam 1 review		#3②
9-23 F	**Exam 1**	**Ch 1-4**	
9-26 M	Gravitational Forces, Apparent Weight	4.5 & 4.10	#4Λ
9-28 W	Uniform Circular Motion, Radial Acceleration	5.1-5.2	
9-30 F	Circular Orbits, Non-uniform Circular Motion	5.4-5.5	
10-3 M	Tangential and Angular Acceleration, Artificial Gravity	5.6-5.7	#5Λ, #4①
10-5 W	Conservation of Energy, Work by a Constant Force	6.1-6.2	#4②
10-7 F	Kinetic Energy and Gravitational Potential Energy	6.3-6.5	
10-10 M	Work by Variable Forces, Elastic Potential Energy, Power	6.6-6.8	#6Λ ,#5①
10-12 W	Momentum: Vector conservation law	7.1-7.2	#5②
10-14 F	**Mid Semester Break – No classes**		
10-17 M	Exam 2 Review	Ch 4-6	#6①
10-19 W	**Exam 2**	**Ch 4-6**	#6②
10-21 F	Impulse-Momentum Theorem, Conservation of Momentum	7.3-7.4	#6②
10-24 M	Center of Mass and Momentum practice	7.5	#7Λ

10-26 W	Collisions in 1- and 2-D	7.7-7.8	
10-28 F	Rotational Kinetic Energy, Inertia and Torque	8.1-8.2	
10-31 M	Work Done by Torque, Rotational Equilibrium	8.3-8.4	#8Λ, #7①
11-2 W	Equilibrium in the Human Body, Rotational Form of Newton's 2nd	8.5-8.6	#7②
11-4 F	Motion of rolling objects, Angular momentum	8.7-8.9	
11-7 M	States of matter, Pressure, Pascal's principle	9.1-9.3	#8①
11-9 W	Exam 3 Review		#8②
11-11 F	**Exam 3**	**Ch 7-9.3**	
11-14 M	Measuring pressure, Archimedes' principle	9.4-9.6	#9Λ
11-16 W	Fluid Flow and the Bernoulli equation	9.7-9.8	
11-18 F	Simple Harmonic Motion	10.5-10.6	
11-21,-23,-25	**Thanksgiving Break -- no classes**		
11-28 M	Pendulum and graphical analysis of SHM	10.7-10.8	#10Λ, #9①
11-30 W	Slinky Lab - physical description of a wave	11.2-11.3	#9②
12-2 F	Mathematical description of a wave	11.5-11.10	
12-5 M	Sound waves & The Ear	12.1-12.4, 12.6	#10①
12-7 W	**Review**	**Ch 1 - 12**	#10②
12-12 M	**FINAL EXAM 1:30-4:30 p.m. Valentine 202**	**Ch 1 - 12**	

Course schedule is tentative; changes will be announced in class.

Key for assignments:

#5Λ, #4①	means: "Problem Set #5 assigned, Problem Set #4 *Step 1* due."
#4②	means: "Problem Set #4 *Step 2* due."