

Date	Topic	Comment	Recommended
T:1-19	Geometry, vectors, and their products		Homework 1
TH:1-21	Calculus in two and three dimensions		
T:1-26	One dimensional motion		Homework 2
TH:1-28	Two and three dimensional motion, circular		
T:2-2	Newton's Laws		Homework 3
TH:2-4	Newton's Laws		Homework 4
T:2-9	Newton's Laws		
TH:2-11	Question Day		Homework 5
T:2-16	Test 1 (covers Homework 1-5 and Lecture)		
TH: 2-18	Multivariate Calculus in a nutshell		
T:2-23	Work and energy		Homework 6
TH:2-25	Work and energy		
T:3-1	Energy analysis		Homework 7
TH:3-3	Momentum		
T: 3-8	Momentum		Homework 8
TH:3-10	Question Day		Homework 9
	Spring Break: (3-14 to 3-18)		
T:3-22	Test 2		
TH: 3-24	Angular motion and moments of inertia		
M:3-28	Easter Monday		
T: 2-29	Rotational motion		Homework 10
TH: 3-31	Angular momentum		
T:4-5	Gravity		
W: 4-6	Assessment Day		
TH: 4-7	Gravity		
T:4-12	Special Relativity		
TH: 4-14	Special Relativity		Homework 11
T:4-19	Springs with friction		
TH: 4-21	Springs with friction		
T:4-26	Simple Harmonic Motion and Waves		
TH: 4-28	Question Day		Homework 12
T: 5-3	Test 3		
W: 5-4	Reading Day (no classes)		
F: 5-6	Final Exam 10:30-12:30 pm		

- Test 1=150pts, Test 2=150pts, Test 3=150pts  
Web Assign (120pts) / Labs (100pts) / Class Participation 30pts / Final = 300pts.
- The Text for this course is the 10<sup>th</sup> edition of "University Physics" by Young and Freedman (ISBN-13: 978-0201603224 )
- I have some handwritten notes for Physics 231 posted at the course website which is linked at my personal website of [www.supermath.info](http://www.supermath.info) ( I use Blackboard to post test solutions from this semester)
- The Required Webassign homework is not overly lengthy. It may be you need more practice to really "get" the physics. There are many additional problems at the end of chapters you may work. The odd problems have answers in the back of the text. I have given suggested due dates in the planner above, however, the hard due date is Friday night before the Tuesday the test is due. Do not ask for an extension.

- I announce exercises from time to time in Lecture. These are not collected, but, you would be wise to complete them.
- You are allowed one 3"x5" card with writing only on two sides for Test 1, 2, 3 and the Final.
- The webassign grade does not appear in BB until the end of the semester
- No cell phones or similar devices may be out during the exam
- You must be enrolled in a lab section.
- You can use a graphing calculator (but only in physics, I would not allow it in any other course I teach)
- In most weeks where there is no test there is a lab. However, in the first week we have no lab.
- You can work together on the homework. However, remember, the purpose of the homework is actually not for you to earn points. The real purpose for homework is for you to learn the concepts of physics and to acquire the mathematical skill requisite to solve university physics problems. Notice, "university" means calculus-based. We use calculus and vectors in this course. If you are rusty on math, then it would be wise to drop this course and finish calculus III before you attempt this course. We use a lot of algebra, trigonometry, basic calculus and we learn new vectors techniques and calculus techniques at a much faster pace than is typical of the calculus course.
- I am here to help. I have office hours where you can ask me about problems you have **already attempted**. Please do not plan to work problems in my office, you are welcome to ask questions, but, it is better if you study somewhere else. To summarize: office hours are for questions.