Physics 160 Checklist

The following skills are recommended for Physics 160, University Physics. Choose the following textbook from the dropdown menu:

Goldstein: Calculus and Its Applications, 12e

Once you have chosen the textbook, click on the words "study plan". Expand the Chapter + to see the individual sections. For each section below, start by watching the section video then proceed to exercises. If you need help with an exercise, you can click on the menu to the right of the exercise for help, to read the related section of the textbook, or to see additional examples.

	Chapter O - Orientation Questions for Students
	Chapter GR- Getting Ready for Calculus GR.1 Basics – Exponents, Scientific Notation, Radicals GR.2 Algebra – Linear Equations, Quadratic Equations, Systems of Equations, Translations of Graphs GR.3 Exponential and Logarithmic Functions
	Chapter 1 – The Derivative Sections 1.1-1.8
	Chapter 2 – Applications of the Derivative
□ Dit	Chapter 3 – Techniques of Differentiation Sections 3.1-3.3 Product, quotient, power rules, Chain rule, and Implicit fferentiation
	Chapter 4 – Exponential and Natural Log Functions Sections 4.1- 4.6 The functions and their derivatives
	Chapter 5 – Applications of the Exponential and Natural Log Functions
	Chapter 6 – The Definite Integral 6.1 -6.5 – Anti-differentiation, Riemann Sums and Applications
	Chapter 8 – The Trigonometric Functions Sections 8.1-8.4 Radian measure, Sine and Cosine functions and their derivatives
	Chapter 9 – Techniques of Integration Sections 9.1-9.5- substitution, integration by parts, and applications