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The textbook for this course is Introduction to Vector Analysis by H. Davis and A. Snider (7th Edition). Supplementary materials include div grad curl and all that by H. M. Schey (recommended). The lectures will cover the following material (please, see the table of contents below for a detailed description of all sections):

VECTOR ANALYSIS - MATH311 - Krzysztof Galicki
The introductory text covers vector algebra; single variables; scalar and vector fields; line, surface, and volume integrals; and advanced topics. This seventh edition incorporates early introduction of curvilinear coordinate expressions, relegating deeper mathematical insights to the appendices on theorems of advanced calculus, constrained optimization, and vector equations of classical mechanics.

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Math 311: Vector Analysis
Again note that the origin is at the tails of the vectors in the figure. Also, −1(1,2,1) = (−1,−2,−1). This would be pictured by drawing the vector (1, 2, 1) in the opposite direction. Finally, 4(1,2,1) = (4,8,4)which is four times vector a and so is vector a stretched four times as long in the same direction.

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The solutions to these equations are A= 1, B= −1 and C= 0, and hence we obtain the above identity. This can be easily used to prove: ∇× ∇×u = ǫijkǫklm∂j∂lum. = (δilδjm −δimδjl)∂j∂lum. = ∂i∂juj − ∂. 2 j ui. = ∇(∇·u)− ∇2u (20) (c) If B= SijAij, (B is a scalar), then we find that B= −SjiAji (since Sij = Sji and Aij = −Aji).

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CHAPTER 1 VECTOR ANALYSIS 1.1 DEFINITIONS,ELEMENTARY APPROACH In science and

engineering we frequently encounter quantities that have magnitude and magnitude only: mass, time, and temperature. These we label scalar quantities, which re- main the same no matter what coordinates we use.

CHAPTER 1 VECTOR ANALYSIS - booksite.elsevier.com
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Problems and Worked Solutions in Vector Analysis
CHAPTER 3. VECTOR ANALYSIS 3.1.3 Position and Distance Vectors z2 y2 z1 y1 x1 x2 x y R1 2 R12 z P1 = (x1, y1, z1) P2 = (x2, y2, z2) O Figure 3-4 Distance vectorR12 = P1P2 = R2!R1, whereR1 andR2 are the position vectors of pointsP1 andP2,respectively. Figure 3.3: The notion of the position vector to a point, P

Vector Analysis - College of Engineering and Applied Science
2 Chapter 1 Vector Analysis B C A Figure 1.1 Triangle Law of Vector Addition B A C F E D Figure 1.2 Vector Addition Is Associative this representation, vector addition C = A +B (1.1) consists of placing the rear end of vector B at the point of vector A (head to tail rule).

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