CE 160 Midterm Review

Thursday, October 23, 2014
10:30 a.m. – 11:20 a.m., Room ENG 339
Open Book, Closed Notes (one 3 inch x 5 inch note card O.K.)

• Be guided by the homework problems and lab material that support the lecture material and text sections listed below;
• Practice by solving problems;
• Homework solutions at: http://www.engr.sjsu.edu/vukazich/ce_160.htm;

Concept of Tributary Area, Live Load, Dead Load................................. 2.1–2.4
Applications of the Equations of Equilibrium (Statics).......................... 3.1–3.7
General Stability, Determinacy Analysis............................................. 3.8–3.10, 5.7
Truss Analysis
  Method of Joints, Zero-Force Members ........................................... 4.1–4.5
  Method of Sections ........................................................................... 4.6
  Stability, Determinacy Analysis for Trusses .................................... 4.7
V and M Diagrams for Beams .............................................................. 5.1–5.4
V, M, and F Diagrams for Frames ....................................................... 5.1–5.4
Constructing Influence Lines for Beams ............................................ 8.1–8.3
Muller-Breslau Principle................................................................. 8.4
Using Influence Lines for Beams ......................................................... 8.5