CE 160 Final Exam Review
Thursday, May 16, 2019
09:45 a.m. – 12:00 noon
Room: Clark 222

Closed Book, Closed Notes (one 3 inch x 5 inch note card O.K.)
Bring an 8.5 inch x 11 inch Green Book (available at SJSU Bookstore)

• Be guided by the problems and concepts presented in the homework sets,
  the lab material, and the lecture material;
• Practice by solving problems;
• Be familiar with general concepts from the lab material;
• Course Material at: http://www.sjsu.edu/people/steven.vukazich/Courses/CE160/index.html

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..................................................12.1–12.3
Muller-Breslau Principle.............................................................................12.4
Using Influence Lines for Beams...............................................................12.5
Influence Lines for Trusses..........................................................................12.7
Deflections – Double Integration for Beams.............................................7.1–7.2
Deflections – Tabulated Solutions for Beams.............................................7.6
Deflections – Principle of Virtual Work, Truss Deflections.........................8.1–8.5
Deflections – Principle of Virtual Work, Beam and Frame Deflections........8.6
Indeterminate Structures – Flexibility Method..........................................9.1-9.5
One short answer problem on the lab material will be on the final exam......Labs 1-13