CE 160 Final Exam Review
Wednesday, May 18, 2016
09:45 a.m. – 12:00 noon
Room: Clark 202

Closed Book, Closed Notes (one 3 inch x 5 inch note card O.K.)

- Be guided by the problems and concepts presented in homework sets 1-7 and lab material that supports homework problems and lecture material;
- Practice by solving problems;
- Homework solutions at: [www.sjsu.edu/people/steven.vukazich](http://www.sjsu.edu/people/steven.vukazich);

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
Influence Lines for Girders Supporting Floor Systems ..............................................8.6
Influence Lines for Trusses......................................................................................8.7
Deflections – Double Integration for Beams .........................................................9.1–9.2
Deflections – Tabulated Solutions for Beams .........................................................9.6
Deflections – Principle of Virtual Work, Truss Deflections.................................10.1–10.5
Deflections – Principle of Virtual Work, Beam and Frame Deflections .................10.6
Indeterminate Structures – Flexibility Method.......................................................11.1-11.4