AERO 3610
Spring 2016
Final Exam Info

A. Multiple choice questions worth 50% of the exam grade. These questions will cover material from pages 11, 12, 16, 17, 23 thru 30 in the course note packet. I also may ask questions from the Modern Marvals Aluminum video shown in class.

B. Failure load calculations for the different failure modes associated with tension and compression members worth 50% of the exam grade. If I were to give you all of the geometric information for a basswood member (length and cross-section dimensions), along with the material stress properties, then I may ask you to calculate the failure load for such a member considering different failure modes such as
   a. Tensile failure in the reduced cross-section
   b. Crushing failure in the reduced cross-section
   c. Double shear failure of the gusset/basswood adhesive bond
   d. Quadruple shear failure at the member ends
   e. Global buckling of the compression member (given a curve fit for Pcr)