Structural Steel Design 3111: 2009

Credit:  6 Points    Availability:  Semester 1

Outcomes: Students develop the ability to analyse structural loads and structural systems, and to apply the results of these analyses to design both structural members and frames.

Content: This course introduces students to the concepts of limit states design, with a particular emphasis on the loading codes (AS1170.0, 1170.1 and 1170.2) and on the steel design code (AS4100). Particular design topics include: 1) Statics of structural systems, 2) Characteristic members and their design functions, 3) Loads and critical load combinations, 4) Design of tension members, 5) Design of compression members, 6) Design of bending members, 7) Design of welded and bolted connections,

Assessment: Assessment is based on a combination of tutorial problems, 3 mid-term examinations, and one final examination.

  Tutorials:  10% based on one problem set per week

  Mid Term #1:  March 17, 19   10%

  Mid Term #2:  April 21,23   10%

  Mid Term #3:  May 19,21   10%

  Final Examination:  June  60%

Web Page:  http://www.civil.uwa.edu.au

Unit Rules:
Contact Hours:  78  (39 lectures, 39 tutorials)

Unit Coordinator:  Dr. Kenneth T Kavanagh
Location:  UWA Campus
Mode:  on campus

Texts:

Australian Standards HB2.2 – 2004  Australian Standards for Civil Engineering Students