Mec E 494
Research Practicum Preparation

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Recommended texts:


**Overall Course Objectives**

1. Advance preparation for research practicum (Mec E 495), including lab tours, project proposal and presentation, honing of research analysis skills
2. Collect information on graduate studies and scholarships

**Course Expectations**

1. Give a one-sheet overhead presentation on one of the following topics on Sept. 20
   1.1) NSERC graduate scholarship applications
   1.2) U of A general awards competition
   1.3) Alberta Ingenuity fund Studentships
   1.4) Ralph Steinhauer scholarship
   1.5) Research areas/groups in Dept. of Mec. Eng.
   1.6) U of A application procedures and deadlines for Mec. Eng.
   1.7) GRE exam
   1.8) Research areas and application procedures for UBC
   1.9) Research areas and application procedures for U of Toronto
   1.10) Research areas and application procedures for Queen’s
   1.11) Research areas and application procedures for Waterloo
   1.12) Research areas and application procedures for Stanford
   1.13) Research areas and application procedures for MIT
   1.14) Research areas and application procedures for Oxford
   1.15) Research areas and application procedures for Cambridge

2. Attend weekly seminars (Tuesday 8:30AM -9:20AM) and complete problems assigned in seminars (but don’t hand in), with a final quiz during the last scheduled seminar (Dec. 2) that will consist of doing problems that were given out in the seminars.
3. Preparation for Research Project
   a) W. Finlay to arrange lab tours in various research fields in Mec. Eng.
   b) Make contact with desired research group
   c) Discuss scope of project with supervisor (and with Finlay)
   d) Perform background literature search
   e) Write a 3 page research proposal (include references) due Nov. 29.
   f) Give a 5 minute talk on research proposal on Nov. 22

4. A final grade for the course will be determined based on the following marking scheme
   10%: Sept. presentation
   40%: written research proposal
   20%: final presentation
   30%: final quiz