

## ME 410H – HEAT TRANSFER

Fall Semester 2008 -- M W F 12:20pm - 01:10pm, 268 Willard

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**TEXT:** F.P. Incropera and D.P. DeWitt, Fundamentals of Heat and Mass Transfer, John Wiley & Sons, any edition.

**WEBSITE:** A very basic website containing homework assignments, due dates, solutions, etc., will be maintained by Dr. Modest at <http://www.mne.psu.edu/mfmodest/ME410h/>.

**HOMEWORK:** Assigned homework problems are typical of those students will see in examinations. **All homework problems are graded and will be collected in class on the days indicated on the web site. Homework must reach the TA before 5:00 p.m. on day due to be graded.** No late homework will be collected. Solutions to homework will be posted on the web site. A few of the homework will require the writing of small computer codes in C/C++, Fortran and/or MATLAB (no EXCEL).

Students may consult with each other during the preparation of homework. Collaboration is an integral part of the professional life of an engineer, but collaboration requires sharing ideas and resolving differences. **Collaboration does not mean copying!** Homework is to be prepared individually and neatly. Submissions that are not individually prepared or that are too messy will not be accepted.

**RESEARCH PAPER:** Students will choose or be assigned a research paper in the general area of heat transfer to review (on material not covered in class). Review will consist of (a) Carefully reading and understanding contents of paper, (b) preparing a short synopsis of paper (2 pages plus 3 or 4 figures), and (c) giving a 10-12min presentation about the paper.

**EXAMS:** There will be three prescheduled 1 hour evening exams, closed book and notes, but a 8.5" x 11" crib sheet with formulae will be provided. The final will also be closed book and notes, with the same 8.5" x 11" crib sheet with formulae provided.

Incidents of acts of dishonesty on examinations or homework will result in a zero grade for that examination or homework assignment. Repeated dishonesty will result in a grade of "F" and a report to the Dean's Office. University Policy on Academic Integrity is discussed at <http://www.engr.psu.edu/CurrentStudents/acadinteg.aspx> for the College of Engineering.

Requests for conflict exams must represent true conflicts (same date and time) and must be documented. Students must apply to the Registrar for a conflict final exam.

**Review sessions** will be held by demand. The date and time are to be determined.

**GRADE COMPOSITION:** For determination of the final grade, the following weighting and grading assignments will be used:

Homework = 10%+5% for computer projects

Paper Presentation = 15%

Midterm Exams = 15% each

Final Exam = 25%

**OFFICE HOURS:** Monday, Wednesday and Thursday, 4:30–6:00 p.m., Room 301C Reber (Mechanical Engineering) Building.