Course Syllabus

Course number and name: ME5344, Thermodynamics of Fluid Flow with Applications

Course contents:

Prerequisites:
ME3333. Note that ME3333 has ME3332 as prereq, which then has ME3331 as prereq. Therefore, students must have had courses in thermodynamics, fluid mechanics, and heat transfer before this course can be taken.

Textbook:

Reading assignments:
To maximize the utility of class time, some of the materials in the textbook will be required to be read by the students prior to and/or after the lectures.

Instructor:
Prof. Lian Shen
Office hours: Thursdays: 1:00-3:00pm, ME229
shen@umn.edu

Teaching assistant:
Mr. Shuping Wang
Office hours: Wednesdays: 1:30-3:30pm, ME4122
wang2807@umn.edu

Class time and location:
Tuesdays & Thursdays: 9:05-11:00am, Rapson Hall 56

Course material online:
Handouts, homework, and homework solutions will be posted online using Moodle at the One Stop course website.

Grading scheme:
Homework: 30%
Midterm exam: 25%
Final exam: 40%
Class participation: 5%
Exams are in class and open book/notes. Use of calculators is recommended. Computers and cellular phones cannot be used during the exams.

**Homework policy:**
Homework is usually assigned on Thursday and due in class on the following Thursday. It is important that homework is turned in on time. If the homework is turned in on Thursday but after the Thursday class, 70% of the score will be counted. If the homework is turned in on Friday, 50% of the score will be counted. After Friday, homework will not be accepted.

Graded homework will be returned in class on Tuesday.

Discussion among students on the course material is strongly encouraged. However, homework problems should be worked out by students independently.

**University policies:** see
http://www.policy.umn.edu/Policies/Education/Education/SYLLABUSREQUIREMENTS_APP_A.html