

AME 3363 Design of Thermal-Fluid Systems

Instructor:

Dr. F. C. Lai (209A FH)

Office Hours: 13:30 - 14:30 MTWR or by appointment

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Text:

Fundamentals of Thermal-Fluid Sciences by Y. A. Cengel, J. M. Cimbala and R. H. Turner, 4th ed., McGraw Hill, 2012.

Course Outline:

Introduction & Review

- Thermodynamics (First Law, Second Law)
- Fluid Mechanics (Internal Flows, External Flows)
- Heat Transfer (Conduction, Convection, Radiation)

Power Generating Systems

Refrigeration and Air-Conditioning Systems

Heat Exchangers

Boilers and Condensers

Combustion Systems

Grade:

Homework (8-10)	20%
Quizzes (3)	30%
Project (2)	20%
Final Exam	30%

(In Absolute Scale)

90 and above.....	A
80 - 90	B
70 - 80	C
60 - 70	D
below 60	F