

**AME 431**  
**Heat Transfer**  
**Spring 2025**  
**MHP 101 (M, W 8:00 -9:50)**

**Instructor:** Fokion N. Egolfopoulos, Professor AME Dept.  
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Office Hours: Tuesday 1:00-3:00 pm (and by email appointment)

**Teaching Assistant:** TBA

**Text:** *Heat Transfer*, by J.P. Holman (10<sup>th</sup> Edition)

**WEEKS**

1	Introduction
2,3	Steady 1-D Conduction
4,5	Steady 2-D Conduction
6	Transient Conduction
7	Forced Convection - Introduction
8	Forced Convection – External Flow
9	Forced Convection – Internal Flow
<b>Spring Break (3/17 – 3/19)</b>	
10,11	Free Convection
12	Heat Exchangers
13,14	Radiation – Solid Phase
15	Radiation – Gas Phase

**SUBJECTS**

**Grading:**

2 Midterm Examinations (90 min)	40% (20%+20%)
Final Examination (2 hrs)	35%
Homework	25%

**Examinations:**

Midterm Exam #1:	February 26 (W)	MHP 101	(8:15-9:45)
Midterm Exam #2:	March 26 (W)	MHP 101	(8:15-9:45)
Final Exam:	May 12 (M)	MHP 101	(11:00-1:00)

**Remarks:**

1. Homework assignments will be given every Wednesday and will be due on Friday of next week; late work will not be accepted.
2. All examinations will be open book but only one sheet of paper will be allowed written on both sides. Homework and other written material will not be allowed.