

**Boston University**  
**ENG ME419 Heat Transfer**  
**INFORMATION SHEET FOR SPRING 2010\***

**Instructors:**

**Prof. Katherine Yanhang Zhang** (Course coordinator)

Section A1: MW 12-2, CAS 226

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Office: ENG 219 (110 Cummington St.)

Office hours: Monday 3-5pm

**Prof. Peter Kerney**

Section A2: MW 12-2, CAS213

Contact info: 353-6616, pkerney@bu.edu

Office: ENG 307 (110 Cummington St.)

Office hours: Monday & Wednesday 2-3pm

**Graduate Teaching Fellows (GTFs):**

**Bryan Chue** (Section A1)

Contact Info: Bryan.C.Chue@gmail.com

Office: ENG 117 (110 Cummington St.)

**JiaPeng Xu** (Section A2)

Contact Info: xu@bu.edu

Office: Room B-08 (750 Commonwealth Ave.)

**Textbook:**

Yunus Cengel, "Heat and Mass Transfer," Third Edition.

**Website:**

Under COURSEINFO: Use either <http://www.bu.edu/resources/> or <http://courseinfo.bu.edu/>. The relevant documents for each Section such as syllabus, homework assignment, project descriptions, and lab descriptions will be posted at the site.

**Grading:**

Labs	10%
Design Project	10%
Homework+Quizzes	15%
Test No. 1	20%
Test No. 2	20%
Final Exam	25%

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\* Subject to change.

**Labs:**

There are two laboratory experiments to be performed later in the semester. Detailed information on these labs will be forthcoming.

**Design Project:**

A detailed discussion of the project and the due dates and deliverables will follow.

**Homework:**

Homework assignments and the due dates will be given on the course syllabus posted on the website. The syllabus will be updated as the semester progresses. The homework will be due in class. **Late homework will not be accepted.**

**Drop-in Center:**

The discussion section has been replaced by open Drop-in/Tutoring hours. The center will be staffed by the GTFs. The locations and hours of operation are:

Hours: Monday & Tuesday 6-8pm  
Section A1: ENG 202 (110 Cummington Street)  
Section A2: SOC B63 (96-100 Cummington Street)

**Communication:**

Important course announcements will be communicated to you through e-mail. It is essential that you check your e-mail regularly and maintain your e-mail account to receive e-mail messages.

Boston University  
ENG ME419  
Heat Transfer  
**SYLLABUS FOR SPRING 2010**  
Text: Heat and Mass Transfer (Yunus Cengel, 3<sup>rd</sup> Edition)

WK	DATES	TOPIC	HW PROBLEMS	HW DUE	OTHER
1	1/13	1.1-1.10 INTRODUCTION			
2	1/20	2.1-2.3 INTRO. TO CONDUCTION			
3	1/25	2.4-2.6 INTRO. TO CONDUCTION			
	1/27	3.1 -3.3 STEADY CONDUCTION			
4	2/1	3.4 -3.6 STEADY CONDUCTION			
	2/3				
5	2/8	3.6 STEADY CONDUCTION			
	2/10	4.1-4.2 TRANSIENT CONDUCTION			
6	2/16	4.2-4.3 <b>Tuesday 2/16 is Monday schedule.</b> TRANSIENT CONDUCTION			LAB 1
	2/17	<b>TEST NO. 1 TEST NO. 1 ON 2/17</b>			
7	2/22	5.1-5.5 NUMERICAL METHODS			
	2/24	6.1-6.6 INTRO. TO CONVECTION			
8	3/1	<b>LAB 1 REPORT DUE</b>			
	3/3	6.7-6.11 INTRO. TO CONVECTION			
	3/8 3/10	<b>SPRING BREAK</b>			
9	3/15	7.1-7.4 EXTERNAL FLOW			
	3/17	8.1-8.2 INTERNAL FLOW			
10	3/22	INTERNAL FLOW			
	3/24	<b>DESIGN PROJECT ASSIGNED</b>			
11	3/29	11.4-11.6 HEAT EXCHANGERS			
	3/31				
12	4/5	<b>TEST NO. 2 TEST NO. 2 ON 4/5</b>			LAB 2
	4/7	9.1-9.3 NATURAL CONVECTION			
13	4/12	9.4-9.6 NATURAL CONVECTION			
	4/14	<b>LAB 2 REPORT DUE</b>			
14	4/21	12.1-12.4 RADIATION			
	4/22	13.1-13.3 <b>Thursday 4/22 is Monday schedule.</b>			
15	4/26 4/28	13.4-13.6 RADIATION <b>DESIGN PROJECT FINAL REPORT DUE</b>			