

MEC 740
ENVIRONMENTAL CONTROL IN BUILDINGS

Instructor: Prof. Wey Leong
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Office hours: Monday: 1:00 – 3:00 P.M. & 5:00 – 6:00 P.M.
Wednesday: 1:00 – 3:00 P.M. & 4:00 – 5:00 P.M.
Other hours: please make appointments

Lecture classes: Monday at BUS512: 3:10 – 5:00 P.M.
Wednesday at KHE118: 3:10 – 4:00 P.M.

Teaching assistant (TA): Rachit Bhambri (rbhambri@ryerson.ca)

Course web page: www.ryerson.ca/~weyleong/courses/mec740/

Detailed Course Outline:

<u>Week</u>	<u>Date</u>	<u>Subject</u>	<u>Text Reference</u>
1	Sep. 6	Introduction	Chapter 1
2	13	Introduction	
		Air-Conditioning Systems	Chapter 2
3	20	Air-Conditioning Systems	
4	27	Moist Air Properties and Conditioning Processes	Chapter 3
5	Oct. 4	Comfort and Health	Chapter 4
6	11	Heat Transmission in Building Structures	Chapter 5
		Space Heat Load	Chapter 7
7	18	Space Heat Load	
		The Cooling Load	Chapter 8
8	25	The Cooling Load	
		Energy Calculations	Chapter 9
9	Nov. 1	Energy Calculations	
		Fans and Building Air Distribution	Chapter 12
10	8	Fans and Building Air Distribution	
11	15	Space Air Diffusion	Chapter 11
12	22	Refrigeration	Chapter 15
13	29	Refrigeration	
14	Dec. 6	Energy Management and Conservation in HVAC Systems	
		Economics of HVAC	

Assignments: There will be about **nine** assignments. Each assignment will be due in a week. Late assignments will be penalized 20% per day.

Project: There will be **one** project. A project report will be due on Dec. 6, 2004. The report must be professionally prepared. Late report will be penalized 20% per day.

Term Tests: The **two** term tests will be scheduled in the 6th and 11th weeks. Each test will be 2 hours in duration, open textbook and class notes; but no solved problems are allowed. The term tests are worth 15% each, of course evaluation.

Final Exam: The final exam will be 3 hours in duration and will be scheduled within the examination period. It will be open textbook and class notes; but no solved problems are allowed.