THREE RIVERS COMMUNITY COLLEGE
COURSE OUTLINE
CRN-10289 M 9:00 - 10:40a D-126
Robert Lantz (rlantz@trcc.commnet.edu)

Course Number/Title: MEC K274 Heat Transfer

Lecture 2 hrs Laboratory 0 hrs Credit 2 hrs Contact 2 hrs

Course Description: This course will include one and two dimension flow, principles of convection, conduction, and radiation. Steady state conditions will be investigated.

Method / Grading: Lecture, homework, and (2) tests

Text: Heat Transfer , Holman, 9th Edition, McGraw Hill

Prerequisites: PHY-K115;MAT-K254;MEC-K272 Co-Requisites: MEC-K275

COURSE TOPICS/CONTENT

	HOURS
1. STEADY STATE CONDUCTION	5
2. STEADY STATE FREE CONVECTION	5
3. STEADY STATE FORCED CONVECTION	4
4. BOILING	4
5. CONDENSATION	4
6. RADIATION	4
7. OVERALL HEAT TRANSFER AND APPLICATION	4
TOTAL HOURS	30

Date: Jan 20, 2011

Prepared By: *Robert Lantz*

Program Coordinator: *Robert Lantz*

Department Chairperson: *Tony Benoit*

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Measurable Objectives

A reasonable understanding of the principles of heat transfer, especially as it applies to power plants.