THREE RIVERS COMMUNITY COLLEGE COURSE OUTLINE

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: Lecture, homework, and tests

Text: <u>Heat Transfer</u>, Holman, 9th Edition, McGraw Hill

Prerequisites: PHY-K115; MAT-K254; MEC-K272 Co-Requisites: MEC-K275 Co-Requisites: <a href="

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: February 12, 2008

Prepared By: **Robert Lantz**

Program Coordinator: Robert Lantz

Department Chairperson: <u>7ony Benoit</u>

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Measurable Objectives

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