THREE RIVERS COMMUNITY-TECHNICAL COLLEGE COURSE OUTLINE

Course Number/Title: MEC K282 Machine Design Lab	
Lecture <u>0</u> hrs Laboratory <u>4</u> hrs Credit <u>2</u> hrs Contact <u>4</u> hrs	5
Course Description: Machine design projects involving senior des project	ign
Method: Project Lab	
Text: <u>Machine Design</u> , Wentzell	
Prerequisites: <u>MEC K250</u> Co-Requisites: <u>MEC K281</u>	
COURSE TOPICS/CONTENT	
	HOURS
These design projects will be designed to utilize many of the principles of machine elements such as springs, bolting, shaft design, and combined stresses, gearing, and bearings.	28
The lab will be utilized to design the student's senior project including the principles of machine design, fluid	30
mechanics, thermodynamics, etc.	

Date: <u>February 12, 2008</u>

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Program Coordinator: <u>Robert Lautz</u>

Department Chairperson: <u>Authony Benoit</u>

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Measurable Objectives

- 1. The student will experience the design process from conception through final drawings.
- 2. The student will perform structural and functional calculations to demonstrate acceptability of design.
- 3. The student will create assembly and details drawing suitable for construction and assembly.
- 4. The student will write a technical description of the project.