

THREE RIVERS COMMUNITY COLLEGE  
COURSE OUTLINE

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Course Number/Title: MEC K252 Strength of Materials Laboratory

Lecture 0 hrs      Laboratory 2 hrs      Credit 1 hrs      Contact 2 hrs

Course Description: Select labs to demonstrate the science of strength of materials.

Method: Laboratory experiments

Text: None

Prerequisites: MEC K114 Co-Requisites: MEC K250

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COURSE TOPICS/CONTENT

	HOURS
1. Static Equilibrium of Beams	4
2. Axial Elasticity	2
3. Use of Strain Gages to Measure Axial Strain	4
4. Internal Moments in Beams	2
5. Torsion of Shapes	4
6. Use of Straw Gages to Measure Torsional Strain	2
7. Beam Deflections	4
8. Use of Strain Gages to Measure Strain in Beams	4
9. Failure of Columns	4
TOTAL:	30

Date: April 2, 2008

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Program Coordinator: Robert Lantz

Department Chairperson: Anthony Benoit

Continuation Sheet No 2 of 2

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Measurable Objectives

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By undertaking experiments in moments, reactions, elasticity, internal moments, torsion, beam deflections and columns, the student will better understand the principals of strength of materials.