

## Outcomes Based Learning Matrix

Course: ENGT 275 Strength of Materials

Department: ENGT

Course Outcomes	Outcome Activities	Assessment Tools
<b>Students will be able to:</b>		
Understand the concepts and effects of materials under various loads and the effect of loads.	Lectures, examples and lab analysis.	Assignments, exams, lab
Analyze structural designs subject to various forces and loads.	Lectures, examples and lab analysis.	Assignments, exams, lab
Analyze columns and pressure vessels under various loads.	Lectures, discussions.	Assignments, exams
Understand engineering responsibility and ethics as it applies to the design of machine parts and structures.	Lectures, examples, discussions	Assignments, exams
Understand the concepts of stress and strain at a point and the stress/strain relationship.	Lectures, Lab	Assignments, exams, lab