



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Machine Design
Course Number: MET228

Required Materials

Textbook(s): Machine Elements in Mechanical Design, Sixth Edition, by Robert L. Mott
Required Readings: None
Additional Materials: Scientific Calculator, and Engineering Paper

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
Week 1	Lesson 1: Nature of Design and Materials in Design (Chapters 1 and 2)
Week 2	Chapter 3-Lesson 2: Stress and Deformation, Assignment 1 due
Week 3	Chapter 5-Lesson 3: Design and Failure Theory, Assignment 2 due
Week 4	Test 1, Assignment 3 due, Quiz 1 due
Week 5	Chapter 7-Lesson 4: Belt and Chain Drives
Week 6	Chapter 8-Lesson 5: Kinematics of Gears, Assignment 4 due
Week 7	Chapter 9-Lesson 6: Spur Gear Design, Assignment 5 due
Week 8	Test 2, Assignment 6 due, Quiz 2 due
Week 9	Chapter 12-Lesson 7: Shaft Design (Part 1)
Week 10	Chapter 12-Lesson 7: Shaft Design (Part 2)
Week 11	Chapter 11-Lesson 8: Keys, Couplings, and Seals, Assignment 7 due
Week 12	Test 3, Assignment 8 due, Quiz 3 due
Week 13	Chapter 13-Lesson 9: Tolerances and Fits
Week 14	Chapter 14-Lesson 10: Rolling Contact Bearings, Assignment 9 due
Week 15	Chapter 19-Lesson 11: Fasteners, Assignment 10 due
Week 16 - Exam Week	Test 4, Assignment 11 due, Quiz 4 due