



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Basic Machines
Course Number: AIT101

Required Materials

Textbook(s): Basic Machines and How They Work (revised, 1994 Edition) ISBN: 97804862170
Required Readings: None
Additional Materials: None

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.

16-Week Course Calendar

Week	Chapter/Topic/Lab
1	Course Introduction; Intro. To Chapter 1: "Levers"
2	Chapter 1: "Levers" Lever Applications Lab Weekly Quiz
3	Chapter 2: "Block & Tackle" Block and Tackle Applications Lab Weekly Quiz
4	Chapter 3: "The Wheel & Axle" The Wheel Axle Applications Lab Weekly Quiz
5	Chapter 4 "The Incline Plane & Wedge" The Inclined Plane Applications Lab Weekly Quiz
6	Supplemental Chapter: "The Spring" The Spring Applications Lab Weekly Quiz
7	Chapter 5: "The Screw" The Screw Applications Lab Weekly Quiz

Week	Chapter/Topic/Lab
8	Chapter 6: "Gears" Gears Application Lab, Weekly Quiz
9	Chapter 7: "Work" Weekly Quiz
10	Chapter 8: Power Weekly Quiz
11	Chapter 9: "Force & Pressure" Weekly Quiz
12	Chapter 10: "Hydrostatic & Hydraulic Machines"
13	Chapter 10: "Hydrostatic & Hydraulic Machines" (cont'd) Hydrostatic and Hydraulic Applications Lab Weekly Quiz
14	Chapter 11: "Machine Elements & Basic Mechanisms"
15	Chapter 11: "Machine Elements & Basic Mechanisms" (cont'd) Lab Weekly Quiz
16	Finals Week

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8-Week Course Calendar

Week	Chapter/Topic/Lab
1-2	Course Introduction, Course Syllabus, Chapter 1 Levers, Lever Applications Lab Weekly Quiz
3	Chapter 2 Block and Tackle, Block and Tackle Applications Lab
4	Chapter 3 The Wheel Axle, The Wheel Axle Applications Lab, Chapter 4 The Inclined Plane and Wedge, The Inclined Plane Applications Lab, Chapter 5 The Screw, The Screw Applications Lab Weekly Quiz
5	Chapter 6 Gears, Gears Application Lab, Chapter 8 Power Weekly Quiz
6	Chapter 9 Force and Pressure Weekly Quiz
7	Chapter 10 Hydrostatic & Hydraulic Machines, Hydrostatic and Hydraulic Applications Lab Weekly Quiz
8	Finals Week