



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Advanced Strength of Materials
Course Number: MET221

Required Materials

Textbook(s): Statics and Strengths of Materials, Limbrunner
Required Readings: None
Additional Materials: Scientific Calculator, Engineering or graph 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	Chapters 1,2-Review of Math and Vectors
Week 2	Chapters 9,10,11-Review of Stress and Strain
Week 3	Chapter 12-Torsion
Week 4	Chapter 18-Columns
Week 5	Chaper 18-Columns, Test #1
Week 6	Chapter 13-Bending and Shear diagrams
Week 7	Chapter 14-Stress and Beams
Week 8	Appendix H-Beam Deflection
Week 9	Chapter 15-Beam Deflection
Week 10	Chapter 16-Beam Design, Test #2
Week 11	Chapter 17-Combined Stress
Week 12	Chapter 17-Combined Stress
Week 13	Chapter 19-Connections
Week 14	Chapter 19-Connections
Week 15	Chapter 20-Pressure Vessels
Week 16	Finals Week- Test #3