



# STARK STATE COLLEGE

## GENERAL SYLLABUS

### Course Information

**Course Name:** Dimensional Metrology and Inspection I  
**Course Number:** IET270

### Required Materials

**Textbook(s):** Metrology: The Science of Measurement, 2<sup>nd</sup> Edition. Suga (Order No. EDU 102-10)  
 This is an e-book. Instructions for obtaining it will be given in class

**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.

Week	Chapter/Topic/Lab
1	Course Introduction; Intro. To Chapter 1: The Unit of Length: The Meter
2	Chapter 1: The Unit of Length: The Meter
3	Chapter 2: Fundamentals: The Millimeter & Millimeter Lab
4	Chapter 3: The Most Precise Length: Gage Blocks & Gage Blocks Lab
5	Chapter 4 Micrometers & Micrometer Lab
6	Supplemental Chapter: Descriptive Statistics
7	Chapter 5: Calipers & Caliper Lab
8	Chapter 6: Dial Indicators & Dial Indicator Lab
9	Chapter 7: Height Gages & Height Gage Lab
10	Chapter 8: Go/No-Go Gages
11	Chapter 9: Profile Projector
12	Chapter 10: Surface Roughness
13	Chapter 12: Hardness Testing
14	Chapter 14: The Engineering Drawings: Geometric Dimensioning & Tolerancing
15	Chapter 15: Coordinate Measuring Machine (CMM): A Whole New Technology
16	Chapter 15: Coordinate Measuring Machine (CMM): A Whole New Technology