



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Introduction to Robotics
Course Number: AIT139

Required Materials

Textbook(s): Industrial Robotics Fundamentals: Theory and Applications, 4th ed. Ross *et. al.*
Required Readings: None
Additional Materials: Slides, video links and other materials through LMS

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	Overview
2	Fundamentals
3	Arm Geometry and Safety
4	Exam I
5	Programming and Motion Commands
6	Industrial Applications: Design Criteria, CIM and Automation
7	Electromechanical Systems
8	Exam II
9	Fluid Power Systems
10	Discrete Sensors
11	Analog Sensors
12	Exam III
13	End of Arm Tooling/Grippers
14	Vision Systems
15	Computer Systems and Digital Electronics
16	Final