



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Computer Numerical Control
Course Number: IET223

Required Materials

Textbook(s): CNC Programming Handbook (ISBN: 978-0-8311-3347-4), Author: Peter Smid
Required Readings: None
Additional Materials: calculator, shoes that cover the soles and top of feet. safety glasses for lab. USB storage drive for program storage.

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	Review Syllabus, Review programming codes, Tour lab, Review programming codes mill groups 1 & 2, Section 2-1 Intro to Safety and related questions, Review Programming Codes mill groups 3 & 4, Section 2-2 Measurement Systems and Math Overview and related questions
2	Section 2-3 Semi Precision Measurement and related questions, Section 2-4 Precision Measurement and related questions
3	Review Programming Codes mill groups 5 & 6, Section 2-8 Maintenance Lubrication and Cutting Fluid Overview and related questions, Section 3-1 Understanding Drawings and related questions. Complete tool library
4	Test 1 (Units 2-1 through 3-1) Chapters 2,3, and related questions, Review program 4, Chapters 4, 5, 6, and related questions, Edit and run program 4
5	Chapters 7, 8, 9, and related questions, Review program 5, Chapters 10, 11,12, and related questions, Edit and run program 5
6	Chapters 13, 14, 18, and related questions, Review program 6, Chapters 19,29, and related questions, Edit and run program 6
7	Chapter 20,21 and related questions, Test 2 review, Test 2 (Chapters 2-14), Edit and run program 7
8	Test 2 (Chapters 2-14), Edit and run program 7, Chapter 22,23 Related questions, Review program 8
9	Chapter 24,25, Related questions, Edit and run program 8, Review Programming Codes: Lathe groups 1 & 2, Chapter 34,35, Related questions, Review Drilled Block program
10	Lab using edge finder, check XYZ vise corner coordinates, Edit and run Drilled Block program on simulator, Make Drilled Block in Lab, Complete Inspection report, Test 3 (Problem Solving and Decision Making, Take Home)

Week	Chapter/Topic/Lab
11	Threading and Undercuts, Review program 11, Edit and run program 11
12	Lathe Lab project: Undercuts, Review program 12, Lathe Lab project: Undercuts, Edit and run program 12
13	Lathe Lab project: Threaded Shaft, Review program 13, Edit and run program 13
14	NIMS review, NIMS Certification Test
15	Final review, Review program 15, Final review, Edit and run program 15
16	Final Exam (Chapters 18,19,22-25,29,34,35,39)