



# STARK STATE COLLEGE

## CLASS SYLLABUS

**Division Name:** Engineering Technologies  
**Department Name:** Industrial Technology  
**Term:**

### COURSE INFORMATION

**Course Name:** Computer Numerical Control  
**Course Number:** IET223-002  
**CRN:** 22590  
**Course Modality:**  Classroom/Lab  Web 2  Web 3  Web 4  
**Class Days/Times:** TR, 7:00 to 9:50 pm  
**Campus Location:** Main  
**Room Number:** T103

### INSTRUCTOR INFORMATION

**Instructor(s) Name:** Michael R Tornero  
**Office Hours:** By appointment  
**Office Location:** T102  
**SSC Phone/Extension:** 330 494 6170 ext. 4684  
**SSC Email Address:** mtornero@starkstate.edu

### REQUIRED MATERIALS

**Textbook(s):** CNC Programming Handbook (ISBN: 978-0-8311-3347-4), Author: Peter Smid  
**Additional Materials:** Calculator with trigonometry functions, safety glasses for lab.  
USB storage drive for program storage.  
Problem Solving and Decision Making Illustrated Course Guide by Jeff Butterfield (ISBN-10: 1-4390-4114-8, ISBN-13: 978-1-4390-4114-7)

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## METHODS OF ASSESSMENT/METHODS OF EVALUATION

- Attendance/Participation - will count as 5% of your class grade (GLO 1,2,3,4).
- Lab Safety - will count as 5% of your class grade (GLO 1,2,3,4).
- Programs/Lab work/Quizzes : Lab and Quizzes will count for 45% of your final grade (GLO 1,2,3,4)
- Tests: Five Tests will make up 45% of your class grade (GLO 1,2,3,4,6)

## GRADING SCALE

90% - 100%	= A	70% - 79.9%	= C	Below 60%	= F
80% - 89.9%	= B	60% - 69.9%	= D		

## CLASS POLICIES

(Established by the instructor and cannot conflict with the College's Policies and Procedures)

Students are expected to make every effort to attend classes and be punctual. If you have a situation that prevents you from being punctual, please notify the instructor. If you miss a class or plan to take one off, **please notify the instructor at your earliest convenience**. If you miss a class you are still expected to complete any reading or written assignments.

Reading or written assignments are due at the beginning of class. Students must comply with all safety rules posted in the lab. Safety glass must be worn at **all** times in the lab. Cell phones must be off or set to vibrate mode during class.

**Failure to comply may result in dismissal from class.**

## ADDITIONAL INFORMATION/REQUIREMENTS

Programming assignments are twofold. First, the student must generate a program and submit via online drop box or written copy. Second the student must load the program into the Haas simulator control via manual input or USB storage device and debug/execute the program. To receive full credit for a programming assignment, the work must be completed on time and the instructor must see both, the written program and the executed program. A maximum of two late **written** assignments will be accepted if submitted within one week of the original due date. All lab assignments must be completed on time. Due to time constraints, lab assignments **may not** be able to be made up.

## WITHDRAWAL DATES

### POLICY:

A student may drop a course or all courses from the College during the first 8 calendar days (excluding holidays) of any academic period without academic penalty. Any changes made during this period will not become a part of the student's academic record. Students should refer to the posted refund schedule available at [www.starkstate.edu/<semester>-refund-schedule](http://www.starkstate.edu/<semester>-refund-schedule).

After the first 8 calendar days, the College gives students an opportunity to withdraw from a course or all courses. It is the student's responsibility to withdraw by the published withdrawal date and to satisfy any financial obligations to the College. A student is officially withdrawn from a course once a signed "Schedule Change" form has been submitted to the Gateway Student Services Center. A grade of "W" will appear on the student's academic record.

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Beyond the published withdrawal date through the end of the last instructional day, a student with an emergency or extenuating circumstance may receive a grade of “W” only upon consultation with the instructor and approval from the department chair. Sufficient supporting documentation shall be provided by the student when making such a request.

***If a student is a financial aid recipient, it is strongly recommended the student consult with a financial aid representative to discuss ramifications of withdrawing.***

**PROCEDURE:**

1. After the first 8 calendar days (excluding holidays), the College requires students to obtain the instructor’s, advisor’s, or department chair’s signature, and to submit the form to the Gateway Student Service Center to process the withdrawal. The person signing the Schedule Change form should discuss the reason for the withdrawal with students to ensure they are aware of all their options. Web 3 and Web 4 students can submit an electronic request for withdrawal, including discussion of all options, via the instructor, advisor, or department chair to the Gateway Student Service Center. The Schedule Change form is available via the mystarkstate portal.
  
2. A student is officially withdrawn from a course once a signed “Schedule Change” form has been submitted to the Gateway Student Services Center. A grade of “W” will appear on the student’s academic record after the first 8 calendar days (excluding holidays) of any academic period, as long as the student withdraws before the published withdrawal date.
  
3. Failure to follow the procedures may result in the student remaining registered for the class and accepting the grade outcome on the academic record at the end of the semester.

**Deadline to Process Withdrawal Form for This Class: Nov. 20, 2017**

**COURSE OUTLINE/CALENDAR**

In case of events beyond the control of faculty that interfere with class times and teaching, adjustments may be made to date of coverage, order of coverage, and date of exams and assignments to ensure full coverage of course content.

Date/Week	Assignments
1	Review Syllabus, Review programming codes, Tour lab Review programming codes mill groups 1 & 2 Section 2-1 Intro to Safety and related questions
2	Review Programing Codes mill groups 3 & 4 Section 2-2 Measurement Systems and Math Overview and related questions Section 2-3 Semi Precision Measurement and related questions Section 2-4 Precision Measurement and related questions
3	Review Programing 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	<b>Test 1 (Units 2-1 through 3-1)</b> Chapters 2,3, and related questions, Review program 4

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Date/Week	Assignments
	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, and related questions, Edit and run program 5
6	Chapters 12, 14, 25, and related questions, Review program 6 Chapters 29, 30, and related questions, Edit and run program 6
7	Chapter 12, Related questions, Test 2 review <b>TEST 2</b> , Edit and run program 7
8	Chapter 15, Related questions, Review program 4 Chapter 18, Related questions, Edit and run program 4
9	Edit and run program 5 Chapter 19, Related questions, Edit and run program 5
10	Chapter 20, Related questions, Review program 7 Chapter 22, Related questions, Edit and run program 7
11	<b>Test 3 (Problem Solving and Decision Making, Take home)</b> Review program 8 Chapter 29, Related questions, Edit and run program 8
12	Chapter 25, Related questions, Review program 9 Edit and run program 9
13	Chapter 39, Related questions, Review program 10 Edit and run program 10
14	Chapter 34, Related questions, Review program 12, Review for NINS test NIMS Certification test
15	Chapter 35, Related questions, Review program 13 Review for Final Exam
16	<b>Final Exam</b> - Tues. Dec. 12, 2017, 7:30 - 9:20 pm

#### ADDITIONAL REQUIREMENTS:

- Students are required to return any tests and/or quizzes after student review
- Students are required to wear safety glass and obey safety rules in lab
- Students are required to maintain a safe and organized working environment in lab

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