



TENTATIVE—SUBJECT TO CHANGE

**AMCA 2150 CNC Lathe Programming
COURSE SYLLABUS
Summer Semester 2023 (202316)**

COURSE INFORMATION

Credit Hours/Minutes: 5/5250
Campus/Class Location: Swainsboro/6112
Class Meets: Monday & Tuesday / 7:45AM to 12:55PM
Course Reference Number (CRN): 60115

INSTRUCTOR CONTACT INFORMATION

Instructor Name: James Yearty
Email Address: [James Yearty \(jyearty@southeasterntech.edu\)](mailto:jyearty@southeasterntech.edu)
Campus/Office Location: Swainsboro/6111
Office Hours: 12:30 to 2:30PM Monday Tuesday Wednesday & Thursday
Phone: (478) 289-2323
Tutoring Hours (if applicable): Schedule with instructor as needed

SOUTHEASTERN TECHNICAL COLLEGE (STC) CATALOG AND HANDBOOK

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's [Catalog and Handbook \(https://catalog.southeasterntech.edu/\)](https://catalog.southeasterntech.edu/).

REQUIRED TEXT

CNC Programming Workbook for Lathe by camInstructor. ISBN: 978-1-897466-83-4

REQUIRED SUPPLIES & SOFTWARE

Each student should have the following: Spiral notebook, new flash drive, pen, pencil, highlighter, 0-1 micrometer, 6" flexible rule, 0-6" dial caliper, pocket scriber, deburr tool, & safety glasses. You will not be permitted to borrow from the Instructor or your fellow classmates.

Students should not share login credentials with others and should change passwords periodically to maintain security.

COURSE DESCRIPTION

Provides instruction for the safe operation and manual programming of computer numerical controlled (CNC) milling machines. Topics include: safety, calculation for programming, program codes and structure, program run and editing of programs.

MAJOR COURSE COMPETENCIES

1. Safety
2. Programming Calculations
3. Program Codes and Structure
4. Program Run and Editing

CO-REQUISITE(S)

MCHT 1012 Print Reading for Machine Tool, CNC Fundamentals

COURSE OUTLINE

Introduces students to Safety, Programming Calculations, Program Codes and Structure, and Program Run and Editing.

GENERAL EDUCATION CORE COMPETENCIES

Southeastern Technical College has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

STUDENT REQUIREMENTS

Tests and assignments must be completed on specified date. Students are also responsible for policies and procedures in the STC E-Catalog.

ATTENDANCE GUIDELINES

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of "F" (Failing 0-59) and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an "F" in a course.

STUDENTS WITH DISABILITIES

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact the appropriate campus coordinator to request services.

Swainsboro Campus: [Emily Jarrell \(ejarrell@southeasterntech.edu\)](mailto:ejarrell@southeasterntech.edu), 478-289-2259, Building 1, Room 1210.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

SPECIFIC ABSENCES

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

PREGNANCY

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please make arrangements with the appropriate campus coordinator.

Swainsboro Campus: [Emily Jarrell \(ejarrell@southeasterntech.edu\)](mailto:ejarrell@southeasterntech.edu), 478-289-2259, Building 1, Room 1210.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

It is strongly encouraged that requests for consideration be made **PRIOR** to delivery and early enough in the pregnancy to ensure that all the required documentation is secured before the absence occurs. Requests made after delivery **MAY NOT** be accommodated. The coordinator will contact your instructor to discuss accommodations when all required documentation has been received. The instructor will then discuss a plan with you to make up missed assignments.

WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" (Withdrawn) is assigned for the course(s) when the student completes the withdrawal form.

Important – Student-initiated withdrawals are not allowed after the 65% point. After the 65% point of the term in which student is enrolled, the student has earned the right to a letter grade and will receive a grade for the course. Please note: Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of "F" (Failing 0-59) being assigned.

Informing your instructor that you will not return to his/her course, does not satisfy the approved withdrawal procedure outlined above.

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. A grade of "W" will count in attempted hour calculations for the purpose of Financial Aid.

MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC.)

Make up test will be at the discretion of the instructor.

ACADEMIC DISHONESTY POLICY

The Southeastern Technical College Academic Dishonesty Policy states that all forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the Southeastern Technical College Catalog and Handbook.

PROCEDURE FOR ACADEMIC MISCONDUCT

The procedure for dealing with academic misconduct and dishonesty is as follows:

1. First Offense

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

2. Second Offense

Student is given a grade of "WF" (Withdrawn Failing) for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

3. Third Offense

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of third offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

STATEMENT OF NON-DISCRIMINATION

As set forth in the student catalog, Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, veteran status, or citizenship status (except in those special circumstances permitted or mandated by law).

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer	Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 st Street, Vidalia Office 165 Phone: 912-538-3126 Email: Helen Thomas hthomas@southeasterntech.edu	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 st Street, Vidalia Office 138B Phone: 912-538-3230 Email: Lanie Jonas ljonas@southeasterntech.edu

ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on Southeastern Technical College's website.

ACCESS TO TECHNOLOGY

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the [Southeastern Technical College \(STC\) Website \(www.southeasterntech.edu\)](http://www.southeasterntech.edu).

TECHNICAL COLLEGE SYSTEM OF GEORGIA (TCSG) GUARANTEE/WARRANTY STATEMENT

The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.

GRADING POLICY

Assessment/Assignment	Percentage
Workbook Exercises	25%
Projects	40%
Final Project	35%

GRADING SCALE

Letter Grade	Range
A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

AMCA 2150 CNC Lathe Programming Summer Semester 202316 Lesson Plan

Subject to change

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
5/15/23 Day 1		First day of class/Class Introduction—Syllabi, Outline CNC Lathe Manual Programming		1,2,3,4,a,b,c
5/15/23 Week 1	Lesson 1 Absolute & Incremental Positioning Lesson 2 Introduction to CNC codes Lesson 3 Drilling Lesson 4 Linear Interpolation	CNC Programming Lathe student workbook camInstructor CNC Programming Lathe student workbook camInstructor CNC Programming Lathe student workbook camInstructor CNC Programming Lathe student workbook camInstructor	Class discuss & complete Exercises 1 thru 5 due 5/16/23 Class discuss lesson 2, 3, & 4 Lesson 3 Exercise #1& Lesson 4 Exercise #1 due by 5/18/23 for grade	1,2,3,4,a,b,c
5/22/23 Week 2	Lesson 5 Turning Canned Cycles Lesson 6 Circular Interpolation	CNC Programming Lathe student workbook camInstructor CNC Programming Lathe student workbook camInstructor	Class discuss lesson 5 Lesson 6 Exercise#1& Exercise #2 due 5/24/23 for grade Lesson 6 Exercise #3 & Exercise #4 due 5/25/23 for grade	1,2,3,4,a,b,c
5/29/23 Week 3	Lesson 7 Tool Nose Compensation Lesson 8 Grooving & Parting off Lesson 9 Threading	CNC Programming Lathe student workbook camInstructor CNC Programming Lathe student workbook camInstructor CNC Programming Lathe student workbook camInstructor	Class discuss lesson 7 Lesson 8 Exercise #1 due 5/30/23 for grade Lesson 9 Threading Exercise page 119 due 5/31/23 for grade	1,2,3,4,a,b,c
6/1/23		Retrieve print 201 from instructor	Project 201 due 6/6/23	1,2,3,4,a,b,c
6/8/23		Retrieve print 202 from instructor	Project 202 due 6/13/23	1,2,3,4,a,b,c
6/14/23		Retrieve print 203 from instructor	Project 203 due 6/19/23	1,2,3,4,a,b,c
6/20/23		Retrieve print 204 from instructor	Project 204 due 6/22/23	1,2,3,4,a,b,c

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
6/26/23		Retrieve print 205 from instructor	Project 205 due 6/28/23	1,2,3,4,a,b,c
7/3-7/6		SUMMER BREAK		
7/10/23		Retrieve print 206 from instructor	Project 206 due 7/12/23	1,2,3,4,a,b,c
7/13/23		Retrieve print 207 from instructor	Project 207 due 7/18/23	1,2,3,4,a,b,c
7/19/23		Retrieve print 208 from instructor	Project 208 due 7/24/23	1,2,3,4,a,b,c
7/25/23		Instructor will Email instruction's for final once all Projects are complete	Finale Project due 7/27/2023	1,2,3,4,a,b,c
Live work may be substituted for any or all projects. All programs are to be saved on your flash driven and emailed to instructor.				

COMPETENCY AREAS: (WILL VARY FOR EACH COURSE/TAKEN FROM STATE STANDARDS)

1. Safety
2. Programming Calculations
3. Program Codes and Structure
4. Program Run and Editing

GENERAL CORE EDUCATIONAL COMPETENCIES:

- a) The ability to utilize standard written English.
- b) The ability to solve practical mathematical problems.
- c) The ability to read, analyze, and interpret information.