

ADVANCED MANUFACTURING APPRENTICESHIP

SUNY Ulster is registered as a Related Instructor provider with the New York State Education Department for the Apprenticeship program. Under the Council of Industry, SUNY Ulster supports apprenticeship programs in CNC Machinist, Toolmaker, Maintenance Mechanic, Electro-Mechanical Technician, Quality Assurance Auditor, and Industrial Manufacturing Technician. Funding may be available for these courses for registered apprentices. To inquire, contact Barbara Reer at reerb@sunyulster.edu or 845-802-7171.

APPROVED ADVANCED MANUFACTURING RELATED INSTRUCTION COURSES

MATHEMATICS FOR TECHNICAL CAREERS

An in-depth course in mathematics designed to acquaint students with the concepts, terms, and formulas required by technical careers in manufacturing and green technology. The application of fractions, decimals, unit conversion including metric, and using algebraic formulas will be the initial focus, using industry-specific examples to develop students' mechanical problem solving skills. Basic geometry and trigonometry applications necessary for design, layout, and assembly will be studied.

DCB 2254 M/W 2/3-4/1 6-9pm KSU \$450

No class 2/17, 3/9, 3/11

BLUEPRINT READING FOR MANUFACTURING

This course teaches machine operators, supervisors, and inspectors, and other manufacturing personnel to interpret the symbols and measurements that appear on engineering drawings. Hands-on exercises, sketching, and group projects will be included in lessons. Topics covered: line types, basic symbols, basic multi-views, dimensions, tolerances, auxiliary views, assembly drawings, threads and fasteners, ANSI symbols, finishes, and sectional views. Prerequisite: Basic Mathematics. Required textbook: *Basic Blueprint Reading & Sketching*, 9781435483781.

DCB 2322 This course will be offered fall 2020.

GD&T: INTRODUCTION TO BLUEPRINT BASICS, SYMBOLS & INSPECTION TECHNIQUES

In this introductory course, use and interpretation of drawings, drawing features, first and third angle projections, concepts of using linear tolerancing vs. GD&T tolerance zones, introduction to concepts of implied constraints will be discussed. Prerequisite: Technical Math & Introduction to Blueprint Reading. Required textbook: *Fundamentals of Geometric Dimensioning and Tolerancing*, 9781111129828

DCB 2272 This course will be offered fall 2020.

GD&T: FEATURE CONTROL FRAME, TRUE POSITION & PROFILE CONCEPTS & INSPECTION TECHNIQUES

Course will continue on where GD&T: Introduction to Blueprint Basics, Symbols and Inspection Techniques leaves off. Course will cover application and inspection techniques using control frames and true position. Prerequisite: DCB 2272 or permission of instructor. Required textbook: *Fundamentals of Geometric Dimensioning and Tolerancing*, 9781111129828

DCB 2273 This course will be offered fall 2020

INDUSTRIAL TECHNOLOGY: MANUFACTURING TECHNOLOGY CERTIFICATE

36 credits

This certificate program prepares individuals to enter the manufacturing workforce by teaching basic skills needed in the use of lathes and milling machines, while also providing the educational background for those students who want to continue into a second year of study in Industrial Technology: Manufacturing or Industrial Design.

INTERESTED IN A CERTIFICATE PROGRAM?

Many of the related instruction courses required for apprentices are embedded in the Manufacturing Technology Certificate program. Ask how you can get this certificate! For more information contact Barbara Reer at reerb@sunyulster.edu or 845-802-7171.



ADDITIONAL RELATED INSTRUCTION COURSES AVAILABLE:

Personal Protective Equipment • First Aid

SEE PAGE 7 for more information on:

OSHA 30 • Lockout/Tagout • Right to Know

Materials Data Sheets • Sexual Harassment Prevention

Refer to our website for start dates for these credit bearing courses: Algebra • Trigonometry • Physics



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