

Daley College Manufacturing Technology Institute
SPRING 2012 SCHEDULE
Register now for classes starting on January 17, 2012

Manufacturing Technology 101 Introduction to Welding (3 credit hours)
Tue and Thur, 5:30 PM – 8:00 PM, Location: AVI, 2800 S. Western Ave., Room 1111

64805 340MFGT 101 AVMP Additional Course Fee \$375

The course is designed to introduce students to the principles of welding techniques and various welding shop equipment presently used in most welding shops. The student will become familiar with welding techniques, welding shop measurement, layout work, sawing, MIG welding operation, TIG welding operation, oxy/acetylene cutting, and plasma cutting.

Manufacturing Technology 103 Introduction to Quality Assurance (3 credit hours)
Mon, 5:30 PM – 8:25 PM

64806 340MFGT 103 NQ

This course develops dimensional metrology skills and quality assurance methods used in manufacturing. Students will master precision measuring tools, and be introduced to statistical process control (SPC), calibration, gauge reliability & repeatability, corrective actions, continuous improvement and quality planning. Customer-Supplier relationships are a major focus in class discussion.

Manufacturing Technology 112-1 Machining Processes II. (3 credit hours)
Sat, 8:30 AM – 1:00 PM

64808 340MFGT 112-1 S Additional Course Fee \$30

This course is an introduction to machine tools and processes. Students will complete projects that require precision layout, set-up, machining, and inspection. They will learn to operate vertical milling machines and other manual machine tools. *Prerequisite: 340MFGT 111-1 or permission of instructor.*

Manufacturing Technology 123 CNC Milling Operations & Programming (3 credit hours)
Tue and Thur, 5:30 PM – 7:35 PM

64812 340MFGT 123 MP

or Saturdays, 8:40 AM – 1:15 PM at AVI, 2800 S. Western Ave., 65602 340MFGT 123 AVS

Fundamentals of programming, setup, and operation of CNC machining centers are covered. Topics include programming formats, control functions, program editing, part production, and inspection. Various projects will strengthen the proper use, programming, and troubleshooting of this equipment in a production setting. This course prepares students for NIMS Level 1 CNC milling credentials. *Prerequisite: MFGT 112 or permission of instructor.*

Manufacturing Technology 137 CNC Turning Operations & Programming (3 credit hours)
Sat, 8:00 AM – 12:35 PM

65833 340MFGT 127 S

This course introduces the programming, setup, and operation of CNC turning centers. Topics include programming formats, control functions, program editing, part production, and inspection. Various projects will strengthen the proper use, programming and troubleshooting of this equipment in the manufacturing setting. This course prepares students for NIMS Level 1 CNC turning credentials. *Prerequisite: MFGT 111 or permission of instructor.*

Manufacturing Technology 191 Industrial Electricity (4 credit hours)

Mon and Wed, 5:30 PM – 8:10 PM 64814 340MFGT 191 NQ Additional Course Fee \$120

A study of DC and AC electricity as applied to industrial circuits. The topics include fundamentals of circuit analysis, single and three phase circuit parameters such as current, voltage and power. Troubleshooting methods using test equipment will also be emphasized in the course. *Prerequisite: eligible for Math 118 or permission of instructor.*

Manufacturing Technology 201 Supervised Work-based Learning (3 credit hours)

Days and Time: TBA 64827 340MFGT 201 X

This course provides supervised work experience with approved employers in an area related to the student's program. Emphasis is placed on integrating classroom learning with work experience. Students will be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. Activities are coordinated and evaluated by college personnel.

Manufacturing Technology 207 Introduction to Mastercam (3 credit hours)

Sat, 12:45 PM – 3:25 PM 64816 340MFGT 207 SY

This course covers MASTERCAM software to create geometry and assign toolpaths to generate CNC programs automatically. These “G-code” programs can be uploaded to the computerized machine tools in Daley's Manufacturing Lab to cut parts to close tolerances.

Manufacturing Technology 291 Programmable Logic Controllers (3 credit hours)

Tue, 5:10 PM – 8:40 PM 64817 340MFGT 291 MP Additional Course Fee \$90

Basic concepts and skills needed to program and apply programmable logic controllers in industry. Overview of basic terminology, ladder logic, memory structure, processing and programming devices. Students will also experiment in operation, programming and industrial applications.

Manufacturing Technology 292 Principles of Mechanisms (3 credit hours)

Thurs, 5:10 PM – 8:40 PM 64819 340MFGT 292 MP Additional Course Fee \$90

Introduction to working principles of drive mechanisms, bearings, lubricants, cam, gears, and pulleys. Discussion on basic troubleshooting and maintenance procedures used in industrial settings. Students will gain an understanding of the basic principles of motion characteristics as they relate to industrial mechanisms.

Tuitions and Fees:

In-District Tuition is \$89 per credit hour, typically \$267 for 3 a credit hour course.

Out-of-District Tuition is \$173.56 per credit hour, or \$520.68 for a 3 credit hour course.

Registration fee is \$30 per semester

Activity fee is \$50 for part-time students, \$170 for full-time students (12 credit hours)

For more information contact Ray Prendergast, 773-838-7786 or email: rprendergast@ccc.edu

(Continue to next page for Logistics classes.)

Daley College Spring 2011 Course Schedule

330TRNS Transportation, Distribution and Logistics

Transportation 150 Introduction to Transportation (3 credit hours)

Mon, 7:00 PM – 9:55 PM

64821 330TRNS 152 QT

This course provides an overview of basic principles and processes for transportation-related functions in both the public and private sectors; covers state and federal regulations; provides a historical look at transportation in the U.S. and the impact it has on the economy. Characteristics of different models of transportation will be discussed.

Transportation 152 Introduction to Business Logistics (3 credit hours)

Tue, 6:00 PM – 8:30 PM

64822 330TRNS 152 MP

An introduction to the interrelated activities involved with the inbound, in process and outbound movement and storage of goods as well as the related information from the manufacturer to the customer. A special emphasis will be placed on how functional areas of logistics impact supply chain decision making processes.

Transportation 202 Labor and Business Law (3 credit hours)

Sat, 8:30 AM – 11:10 PM

64823 330TRNS 202 S

A study of import/export shipping procedures including customs clearance, bonded shipping, import financing and letters of credit, diversion, customer regulations, insurance, import duties and trade restrictions; will discuss selection of transportation mode; covers raw materials, components and finished goods.

Transportation 206 E-Commerce Technology (3 credit hours)

Wed, 6:00 PM – 8:30 PM

64824 330TRNS 206 LN

This course provides an understanding of the role of electronic commerce (e-commerce) and its impact on supply chain management decision-making. This course is designed to provide the student with the historical perspective of the evolution of e-commerce and how that has affected the supply chain in different organizations. The course will also provide the techniques utilized by leading companies in synchronizing and managing their extended supply chains.

Transportation 212 Supervised Work-Based Learning (3 credit hours)

Time TBA

64825 330TRNS 212 X

Work-Based Learning is designed to provide students with an opportunity to learn on the job and to apply skills acquired in their college studies. The students may work full or part-time to complete this requirement.

Tuitions and Fees:

In-District Tuition is \$89 per credit hour, typically \$267 for 3 a credit hour course.

Out-of-District Tuition is \$173.56 per credit hour, or \$520.68 for a 3 credit hour course.

Registration fee is \$30 per semester

Activity fee is \$50 for part-time students, \$170 for full-time students (12 credit hours)

For more information contact Ray Prendergast, 773-838-7786 or email: rprendergast@ccc.edu