

COMPUTERIZED MANUFACTURING TECHNOLOGY

Certificate Program

This certificate program, under the supervision of the Department of Mechanical Engineering Technology and Design Drafting, features courses related to the fundamentals of manufacturing as well as courses that utilize advanced computer-assisted manufacturing methods. Students will obtain hands-on experience with industrial quality hardware and software used in computer-aided design (CAD), computer numerical control (CNC), computer-aided manufacturing (CAM), and computer integrated manufacturing (CIM) systems. Students who complete this certificate program will be well prepared to obtain positions in the modern manufacturing environment or transfer with advanced standing directly into the Mechanical Engineering Technology curriculum. Courses are offered both in the day and evening. Interested students should visit the Department office in the Science Building, Room S-124, or call 718-631-6294.

GENERAL EDUCATION CORE REQUIREMENTS Credits

EN-101 English Composition I3

REQUIREMENTS FOR THE MAJOR

MT-122 Manufacturing Processes3
 MT-161 Fundamentals of Computer Numerical Control3
 MT-111 Technical Graphics2
 MT-488 Computer-Aided Design Drafting3
 MT-124 Metallurgy and Materials3
 MT-125 Metallurgy and Materials Laboratory1
 MT-162 Microcomputer Programming for Computer Numerical Control3
 MT-163 Computer-Aided Manufacturing (CAM)3
 MT-164 or Computer Integrated Manufacturing (CIM)3
 MT-900 Cooperative Education/Design Projects3

Sub-total 24

ELECTIVES

_____ Liberal Arts and Sciences electives3

Total Credits Required30

DAY CARE ASSISTANT

Certificate Program

The certificate program in Day Care Assistant, under the supervision of the Department of Social Sciences, is designed to prepare students to meet the requirements leading to the child development associate (CDA) credential, a nationally recognized credential issued by the Council for Early Childhood Professional Recognition, the national credentialing agency. The only accredited certificate program of its kind within CUNY, the program is intended not only for those who presently work in a center-based day care program with infants and toddlers (to three years old) or preschool children (three to five years old), but also for those inexperienced in the field who wish to pursue a career. The program consists of coursework that provides knowledge of the educational programs and developmental health, nutrition and first-aid needs of preschool children; extensive field experience in the two education courses to ensure that students fulfill the requirements designated in the application process for the CDA credential; and advisement and counseling offered throughout the program and during the application process for the CDA credential. Interested students should consult the Department of Social Sciences in the Medical Arts Building, Room M-104, or call 718-631-6251.

GENERAL EDUCATION CORE REQUIREMENTS Credits

EN-101* English Composition I *3
 SS-510* Psychology3

Sub-total 6

REQUIREMENTS FOR THE MAJOR

ED-138 History and Curriculum of Early Childhood Education3
 ED-139 Day Care Practicum I1
 ED-141 Infant/Toddler Environments3
 ED-142 Day Care Practicum II1
 HE-101 Health Education1
 HE-106 First Aid and Safety3
 SS-515 Child Development3
 SS-560 Disorders of Childhood3
 SS-310 Sociology3
 SS-330 Sociology of the Family3

Sub-total 24

Total Credits Required30

Completion of these courses does not automatically lead to the CDA credential. Students must complete the assessment process to obtain the CDA.

** Basic Development Skills courses may be required based on the results of the placement examinations. BE-122 or BE-226 is prerequisite for SS-310 and SS-510. BE-112/205 and BE-122/226 are prerequisites for EN-101.*