



MANUFACTURING TECHNOLOGY
Electronics Concentration
Degree Program

Career Curriculum
 Associate in Applied Science
 Minimum Hrs. 69
 Major Code: 1.2 150411C

FIRST YEAR – FALL SEMESTER

Dept. No.	Hrs.	Gr.
DRT 185 Computer Graphics I	2	___
ELT 102 Industrial Electricity	4	___
IND 121 Manufacturing Processes I	2	___
MAC 180 Blueprint Reading	3	___
MAT 106 Technical Math OR MAT 107 Technical Math with Applications	4	___
MFT 103 Industrial Robots and PLCs	3	___
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FIRST YEAR – SPRING SEMESTER

Dept. No.	Hrs.	Gr.
ELT 111 Digital Electronics	6	___
ELT 150 Applied Solid State Electronics	4	___
IDM 120 Safety and Environmental Management	2	___
MAC 154 Introduction to CNC	2	___
MFT 101 Production Technology	3	___
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Optional

ATI 200 Applied Technologies Internship 1-3
 IDM 210 Hydraulics and Pneumatics 4

¹ Requires a grade of "C" or higher.

*John A. Logan College reserves the right to modify this curriculum guide as needed.
 Please verify with your academic advisor the accuracy and time lines of this document.*

Effective Date: Spring, 2006

Additional Information:

Manufacturing technology is the study of all of the technologies used to operate a manufacturing business and to increase overall efficiency and productivity in manufacturing. The concern is for how the product is manufactured, distributed, documented, and supported. The following are included in the study of Manufacturing Technology: industrial robots, CAD, CAM, CAD-CAM, PLCs, materials handling, storage and retrieval, payroll, invoicing, receiving, bid specs, production scheduling, record keeping, order entry, and inventory control.

Both two-year associate degree and certificate programs are offered. The degree programs are designed to prepare men and women for a variety of positions in manufacturing. The student will be exposed to the total manufacturing environment, including computer-aided design (CAD), computer-aided manufacturing (CAM), and manufacturing resource planning (MRP). Students will be exposed to a broad knowledge of the basic aspects of manufacturing including these: CAD/CAM, industrial electricity, industrial robots, PLCs, material handling systems, storage and retrieval systems, quality control, production control, manufacturing control, and computer machine tool set-up and operation. Students will design and manufacture a product on an integrated CIM cell. The graduate of this program will be qualified (depending on his or her concentration) for an entry level position as a CAD operator or draftsman, robot programmer, shop floor manager, computer-aided machine tool operator, CAD/CAM operator, electronics technician, or CNC operator/programmer.