

FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ELT	102	Basic Electricity and Wiring	4	_____
ELT	205	Hydraulics and Pneumatics	3	_____
WEL	115	Metallurgy	2	_____
MAC	200	Machine Tool Laboratory	4	_____
ELT	105	Introduction to Programmable Logic Controllers	3 17	_____

FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
MAC	154	Introduction to CNC	2	_____
MAC	159	CAM Operations	2	_____
MAC	180	Blueprint Reading	3	_____
ELT	201	PLC Manufacturing Systems & Industrial Robotics	3	_____
WEL	124	GTAW (TIG) Welding I	3 13	_____

NOTES AND INFORMATION

All students registered for this program will be required to furnish a basic tool set. The set includes the following:

- Combination square (recommend: Starrett, Mitutoyo or Fowler)
- Micrometer set 1" & 2" (recommend: Starrett, Mitutoyo or Fowler)
optional
- 6" dial calipers (recommend: Starrett, Mitutoyo or Fowler)
- Carbide tipped scribe
- Steel toed work boots/shoes
- Safety glasses with side shields
- 6" flexible rule
- Shop apron
- Ball end Allen wrench set (standard and metric)
- Red lead pencil, grease pencil, and fine tip Sharpie
- Tool box
- 25' tape measure
- Blue jeans (100% cotton)
- Long sleeve shirt (100% cotton)
- Leather welding gloves
- Channel lock pliers
- Composition notebook (qty 2)
- 3 ring binder with 1 package of tab dividers
- Scientific calculator (TI30XA or equivalent) *no programmable calculators*
- Digital multi-meter (DMM) must measure volts, ohms, and milli-amps
- Replacement fuses for meter
- 15 amp fuses (qty 4)
- Needle nose pliers
- Lineman's pliers
- Cable stripper
- #2 Phillips screwdriver
- ¼" standard screwdriver

Note: Cost varies from different suppliers.

Career Opportunities: Beginning salaries are comparable to other technical careers with many positions offering an opportunity for quick advancement. These positions can be found in our region and throughout the nation from manufacturing companies, industrial companies, government agencies, and the mining industry.

Upon completion of the CNC Machine Certificate program, a student may find employment as a machine tool operator/programmer, CNC machinist, lather operator, mill operator, or a general machinist. This program provides the student with an opportunity to start as a higher level in the work force with quick advancement within a company possible.

A job placement service is provided for all John A. Logan College graduates in an effort to assist students in finding gainful employment. Each year new graduates prepare or update resumes and submit them to the college Placement Office for review by potential employers.

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