



FIRST YEAR – FALL SEMESTER

Dept. No.		Hrs.	Gr.
CMG 110	Wood Frame Construction	4	___
ELT 102	Basic Electricity and Wiring	4	___
HAC 121	Heating I	4	___
MAT 113	Introduction to Contemporary Mathematics OR MAT 100 Mathematics for Applied Technologies OR MAT 120 Elementary Statistics	3	___
SPE 115	Speech OR SPE 116 Interpersonal Communication	<u>3</u> 18	___

FIRST YEAR – SPRING SEMESTER

Dept. No.		Hrs.	Gr.
ELT 150	Applied Solid State Electronics	4	___
HAC 131	Refrigeration and Air Conditioning I	4	___
IDM 120	Safety and Environmental Management	2	___
IAI Social and Behavioral Science Elective		3	___
WEL 201	Industrial Maintenance Welding Lab	<u>6</u> 19	___

Fall Only Courses:

ELT 102
HAC 121
HAC 132
IDM 210
MFT 103

Spring Only Courses:

ELT 150 HAC 131
ELT 224 IDM 120
 MFT 201

SECOND YEAR – FALL SEMESTER

Dept. No.		Hrs.	Gr.
CMG 107	Construction Document Interpretation	3	___
IDM 210	Hydraulics & Pneumatics	4	___
HAC 132	Refrigeration and Air Conditioning II	4	___
MAC 200	Machine Tool Lab	4	___
MFT 103	Industrial Robots & PLCs	<u>3</u> 18	___

SECOND YEAR – SPRING SEMESTER

Dept. No.		Hrs.	Gr.
DRT 185	Computer Graphics I	2	___
ELT 224	Power Distribution and Motors	3	___
ENG 101	English Composition I ¹ OR ENG 113 Professional Technical Writing ¹	3	___
HAC 107	Electrical Controls and Circuitry	3	___
MFT 201	PLC Manufacturing Systems	3	___
IAI Physical/Life Science or IAI Humanities/ Fine Arts Elective		<u>3-5</u>	___

SECOND YEAR – SUMMER SEMESTER OPTIONAL

Dept. No.		Hrs.	Gr.
ATI 200	Applied Technologies Internship ² OR PSY 110 College Success and Career Planning ²	1-3	___

¹ Requires a grade of "C" or higher.

² Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

*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 2017

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

Screwdrivers

- #2 Phillips Screwdriver
- ¼" Standard Screwdriver

Pliers

- Needle Nose Pliers
- Side Cutter (Diagonal) Pliers
- Lineman's Pliers

Additional Tools

- Pocket Knife for Stripping Cable (Lock-Back) or Cable Stripper
- Wire Strippers
- Digital Multimeter (DMM) - must measure volts, ohms, and milli-amps

Note: Cost varies from different suppliers.

Career Opportunities: Industrial Maintenance/repair position, facilities maintenance