



John A. Logan College

Associate in Applied Science Toward a Degree in Industrial Maintenance

Career Curriculum IDM000069
Minimum Hours: 72
Major Code: 1.2 470303C
Effective Date: Spring 2017

FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
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	_____

NOTES AND INFORMATION

Fall Only Courses: Spring Only Courses:

ELT 102	ELT 150	HAC 131
HAC 121	ELT 224	IDM 120
HAC 132		MFT 201
IDM 210		
MFT 103		

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.

FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
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	_____

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).

SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
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	_____

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.

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

- | | |
|-----------------------------|---------------------------------|
| Screwdrivers | Pliers |
| • #2 Phillips Screwdriver | • Needle Nose Pliers |
| • 3/4" Standard Screwdriver | • Side Cutter (Diagonal) Pliers |
| | • Lineman's Pliers |

SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
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> 17	_____

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

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.

SECOND YEAR – SUMMER SEMESTER OPTIONAL

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