

**FIRST YEAR – FALL SEMESTER**

Dept.	No.		Hrs.	Grade
ORI	100	College 101 Fundamentals (A, B, or C)	1	_____
CMG	110	Structural Framing I	4	_____
ELT	102	Basic Electricity and Wiring OR HAC 102 Residential Electric Wiring	4	_____
HAC	121	Heating I	4	_____
CMG	218	CADD for Applied Tech	3	_____
WEL	121	SMAW (STICK) Plate Welding I	<u>3</u>	_____
			19	

**NOTES AND INFORMATION**

<sup>1</sup> Requires a grade of "C" or higher.

<u>Fall only courses:</u>		<u>Spring only courses:</u>	
CMG 107	HAC 121	CMG 112	HAC 101
CMG 110	MAC 200	ELT 150	HAC 107
CMG 218	WEL 121	ELT 201	HAC 131
ELT 102	WEL 122	ELT 224	
ELT 105			
ELT 205			

**FIRST YEAR – SPRING SEMESTER**

Dept.	No.		Hrs.	Grade
ELT	150	Applied Solid State Electronics	3	_____
MAT	115	Applied Mathematics OR BUS 111	3	_____
HAC	107	Electrical Controls and Circuitry	3	_____
CMG	112	Construction OSHA 30 Safety for Applied Technology	2	_____
HAC	101	Basic Plumbing Systems	3	_____
HAC	131	Refrigeration and Air Conditioning I	<u>4</u>	_____
			18	

<sup>1</sup> Requires a grade of "C" or higher.

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

**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

**SECOND YEAR – FALL SEMESTER**

Dept.	No.		Hrs.	Grade
CMG	107	Construction Document Interpretation	3	_____
ELT	205	Hydraulics & Pneumatics	3	_____
MAC	200	Machine Tool Lab	4	_____
ELT	105	Introduction to Programmable Logic Controllers	3	_____
WEL	122	GMAW (MIG) Plate Welding	3	_____
ENG	113	Professional Technical Writing <sup>1</sup>	<u>3</u>	_____
			19	

Note: Cost varies from different suppliers.

**Career Opportunities:**

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.

**SECOND YEAR – SPRING SEMESTER**

Dept.	No.		Hrs.	Grade
ELT	224	Power Distribution and Motors	3	_____
ELT	201	PLC Manufacturing Systems & Industrial Robotics	3	_____
COM	115	Speech	3	_____
IAI		Physical/Life Science	3	_____
IAI		Social and Behavioral Science Elective	<u>3</u>	_____
			15	