



SOUTHERN UNION
STATE COMMUNITY COLLEGE
Technical Division

Associate in Applied Science: Industrial Electricity				
Semester	Course Prefix	Course Description	AAS	Complete
1 st Semester	WKO 110	NCCER Core	3	
	ILT 160	DC Fundamentals	3	
	ILT 161	AC Fundamentals	3	
	ILT 118	Construction Wiring NEC	3	
	MTH 100	Intermediate College Algebra or Higher	3	
2 nd Semester	ILT 162	Solid State Fundamentals	3	
	ILT 167	AC/DC Machinery and Controls	3	
	ILT 166	Motors and Transformers	3	
	ELT 117	AC/DC Motors	3	
	ENG 101	English Composition I	3	
3 rd Semester	ELT 206	OSHA Safety Standards	3	
	ILT 231	National Electric Code	3	
	ELT 110	Wiring methods	3	
	ILT 109	Electrical Blueprint Reading	3	
	*	Natural Science or Math Elective	3	
4 th Semester	ELT 131	Commercial and Industrial Wiring I	3	
	ELT 132	Commercial and Industrial Wiring II	3	
	ILT 209	Motor Controls I	3	
	ILT 115	Industrial Controls	3	
	*	Humanities and Fine Arts Elective	3	
5 th Semester	ILT 104	Industrial Instrumentation	3	
	ILT 105	Industrial Instrumentation Lab	2	
	ILT 240	Sensors Technology and Applications	3	
	ILT 263	Certification Prep Lab	1	
	*	Social and Behavioral Sciences Elective	3	
Total Hours:			72	

*Denotes a required academic elective to be chosen by the student.



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Short Certificates Available in this Program of Study

Basic Electricity Short Certificate	
Course Prefix	Course Description
ILT 160	DC Fundamentals
ILT 161	AC Fundamentals
ILT 118	Construction Wiring NEC
Total Hours:	9

Solid State Short Certificate	
Course Prefix	Course Description
ILT 162	Solid State Fundamentals
ILT 167	AC/DC Machinery and Controls
ILT 166	Motors and Transformers
ELT 117	AC/DC Motors
Total Hours:	12

Industrial Motor Controls Short Certificate	
Course Prefix	Course Description
ELT 131	Commercial and Industrial Wiring I
ELT 132	Commercial and Industrial Wiring II
ILT 209	Motor Controls I
ILT 115	Industrial Controls
Total Hours:	12

Industrial Process Controls Short Certificate	
Course Prefix	Course Description
ILT 104	Industrial Instrumentation
ILT 105	Industrial Instrumentation Lab
ILT 240	Sensors Technology and Applications
ILT 263	Certification Prep Lab
Total Hours:	9