

*Program of Study Sequence*

Community College  Kishwaukee College

High School  Genoa-Kingston High School

Program of Study:  Electricity, Electronic Communication Technology AAS # 434

CIP Code  15.0303

Cluster  Manufacturing

Pathway  Maintenance, Installation and Repair

Educational Level	Grade	CTE/Degree Major Courses	English	Mathematics	Science	Social Science	Other required Courses/Recommended Electives		Work-Based Learning Opportunities	
SECONDARY	9	Technology Education (TEI)	English 100	Algebra I	Intro to Science	Geography I	Foreign Language Business Ed			
	10	Energy and Transportation	English 200	Geometry	Biology	American Government				
	11	KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,	Communication/English Elective	Algebra II	Chemistry	American History	Foreign Language Business Ed Consumer Ed Related Electives. Skills USA (KEC)			
	12	KEC Dual Credit Manufacturing Eng. Tech. MT 152 Shop Math II, MT 216 Fabrication Practices, and MT 103 Systems Integration	Literature & Composition		Physics					
POSTSECONDARY	13 (Fall)	ELE 101 Ind. Elect. Ele 102 PC Maint & Repair, ELE 110 Active Devices, ELE 130 Into to PLCs	Eng 109 Technical Writing				Skills USA			
	13 (Spring)	ELE 103 AC Circuits, ELE 204 Active Devices 2, ELE 210 Robotics and Data,		MT 151 and MT 152 or MAT 150 College Algebra	,PHY 150 Introductory Physics.					
	14 (Fall)	ELE 211 Automatic and HVAC controls	SPE 100 Critical Reading				CIS Elective, CAD elective , AET Elective or Electricity Elective Skills USA			
	14 (Spring)	ELE 230 Computer Devices 2								
	15 (Fall)	Continued Classes in Chosen Program of Study	Continued Classes in Chosen Program of Study	Continued Classes in Chosen Program of Study	Continued Classes in Chosen Program of Study	Continued Classes in Chosen Program of Study	Career Opportunities: Industrial Maintenance Industrial Electrician Electronic Technologist Computer System Repair Industrial Automation Engineering Technician			Degrees and Certificates Available:  AAS Applied Science in Electronics and Computer Tech.
	15 (Spring)	Continued Classes in Chosen Program of Study	Continued Classes in Chosen Program of Study	Continued Classes in Chosen Program of Study	Continued Classes in Chosen Program of Study	Continued Classes in Chosen Program of Study				
	16 (Fall)	Continued Classes in Chosen Program of Study	Continued Classes in Chosen Program of Study	Continued Classes in Chosen Program of Study	Continued Classes in Chosen Program of Study	Continued Classes in Chosen Program of Study				
	16 (Spring)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree				

Kishwaukee Educational Consortium Dual Credit Classes

*Program of Study Sequence*

Community College  Kishwaukee College  High School  Genoa-Kingston High School

Program of Study:  Energy Mgmt. & Systems Technology Cert. # 295  CIP Code  15.0503 Alternative Energy Tech

Cluster  Architecture and Construction

Pathway  Construction

Educational Level	Grade	CTE/Degree Major Courses	English	Mathematics	Science	Social Science	Other required Courses/Recommended Electives	Work-Based Learning Opportunities	
SECONDARY	9	Technology Education (TEI)	English 100	Algebra I	Intro to Science	Geography I	Foreign Language Business Ed		
	10	Energy and Transportation	English 200	Geometry	Biology	American Government			
	11	KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,	Communication/English Elective	Algebra II	Chemistry	American History	Foreign Language Business Ed Consumer Ed Related Electives. Skills USA (KEC)		
	12	KEC Dual Credit Manufacturing Eng. Tech. MT 152 Shop Math II, MT 216 Fabrication Practices, and MT 103 Systems Integration	Literature & Composition		Physics				
POSTSECONDARY	13 (Fall)	ELE 101 Ind. Elect. Ele 102 PC Maint & Repair, ELE 110 Active Devices, ELE 130 into to PLCs							
	13 (Spring)	ELE 124 Alternative energy, ELE 210 Robotics and Data,							
	14 (Fall)	ELE 211 Automatic and HVAC controls							
	14 (Spring)								
	15 (Fall)						Career Opportunities:  Industrial Maintenance Industrial Electrician Electronic Technologist Computer System Repair Industrial Automation Engineering Technician		Degrees and Certificates Available:  AAS Applied Science in Electronics and Computer Tech.
	15 (Spring)								
	16 (Fall)								
	16 (Spring)								

Kishwaukee Educational Consortium Dual Credit Classes

*Program of Study Sequence*

Community College  Kishwaukee College  High School  Genoa-Kingston High School

Program of Study:  Electricity, Electronic Communication Technology Cert. # 435  CIP Code  46.0302 Industrial Electricity

Cluster  Manufacturing

Pathway  Maintenance, Installation and Repair

Educational Level	Grade	CTE/Degree Major Courses	English	Mathematics	Science	Social Science	Other required Courses/Recommended Electives	Work-Based Learning Opportunities	
SECONDARY	9	Technology Education (TEI)	English 100	Algebra I	Intro to Science	Geography I	Foreign Language Business Ed		
	10	Energy and Transportation	English 200	Geometry	Biology	American Government			
	11	<a href="#">KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,</a>	Communication/English Elective	Algebra II	Chemistry	American History	Foreign Language Business Ed Consumer Ed Related Electives. Skills USA (KEC)		
	12	<a href="#">KEC Dual Credit Manufacturing Eng. Tech. MT 152 Shop Math II, MT 216 Fabrication Practices, and MT 103 Systems Integration</a>	Literature & Composition						
POSTSECONDARY	13 (Fall)	EIE 101 Ind. Elect. Ele 102 PC Maint & Repair, EIE 110 Active Devices, EIE 130 Into to PLCs							
	13 (Spring)	, EIE 210 Robotics and Data,							
	14 (Fall)	ELE 211 Automatic and HVAC controls							
	14 (Spring)								
	15 (Fall)						Career Opportunities: Industrial Maintenance Industrial Electrician Electronic Technologist Computer System Repair Industrial Automation Engineering Technician		Degrees and Certificates Available:  AAS Applied Science in Electronics and Computer Tech. Cert Industrial Electricity
	15 (Spring)								
	16 (Fall)								
	16 (Spring)								

[Kishwaukee Educational Consortium Dual Credit Classes](#)

*Program of Study Sequence*

Community College  Kishwaukee College  High School  Genoa-Kingston High School

Program of Study:  Electricity, Electronic Communication Technology Cert. # 439  CIP Code  15.0303 Industrial Electronics

Cluster  Manufacturing

Pathway  Maintenance, Installation and Repair

Educational Level	Grade	CTE/Degree Major Courses	English	Mathematics	Science	Social Science	Other required Courses/Recommended Electives	Work-Based Learning Opportunities	
SECONDARY	9	Technology Education (TEI)	English 100	Algebra I	Intro to Science	Geography I	Foreign Language Business Ed		
	10	Energy and Transportation	English 200	Geometry	Biology	American Government			
	11	KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,	Communication/English Elective	Algebra II	Chemistry	American History	Foreign Language Business Ed Consumer Ed Related Electives. Skills USA (KEC)		
	12	KEC Dual Credit Manufacturing Eng. Tech. MT 152 Shop Math II, MT 216 Fabrication Practices, and MT 103 Systems Integration	Literature & Composition						
POSTSECONDARY	13 (Fall)	EIE 101 Ind. Elect. Ele 102 PC Maint & Repair, ELE 110 Active Devices, EIE 130 Into to PLCs		MT 151			CAD, AET, CIS or ELE Elective (5) Skills USA		
	13 (Spring)	ELE 103 AC Circuits, ELE 204 Active Devices 2, ELE 210 Robotics and Data,							
	14 (Fall)	ELE 211 Automatic and HVAC controls							
	14 (Spring)	ELE 230 Computer Devices 2							
	15 (Fall)						Career Opportunities:  Industrial Maintenance Industrial Electrician Electronic Technologist Computer System Repair Industrial Automation Engineering Technician		Degrees and Certificates Available:  AAS Applied Science in Electronics and Computer Tech. Certificate: Industrial Electronics
	15 (Spring)								
	16 (Fall)								
	16 (Spring)								

Kishwaukee Educational Consortium Dual Credit Classes