

*Program of Study Sequence*

Community College  Kishwaukee College  High School  Rochelle Township 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 I	Algebra I	Biology	World Geography	Business Ed		
	10	Energy and Transportation	Rhet & Comp., Speech	Geometry	Natural Science	World History			
	11	<a href="#">KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,</a>	2 Literature Courses	Algebra II	Chemistry	American History I & II	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>	Expos/ENG 103 (DC)	Pre-Calculus	Physics				
POSTSECONDARY	13 (Fall)	EIE 101 Ind. Elect. Ele 102 PC Maint & Repir, ELE 110 Active Devices, EIE 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 Speech				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. Certificate: Industrial Electronics
	15 (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			
	16 (Fall)	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			
	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  Rochelle Township High School

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

Cluster  Manufacturing

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 I	Algebra I	Biology	World Geography	Business Ed		
	10	Energy and Transportation	Rhet & Comp., Speech	Geometry	Natural Science	World History			
	11	KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,	2 Literature Courses	Algebra II	Chemistry	American History I & II	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	Expos/ENG 103 (DC)	Pre-Calculus	Physics				
POSTSECONDARY	13 (Fall)	ELE 101 Ind. Elect. Ele 102 PC Maint & Repair, ELE 110 Active Devices, ELE 130 Into to PLCs					Skills USA		
	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  Rochelle Township High School

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

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 I	Algebra I	Biology	World Geography	Business Ed		
	10	Energy and Transportation	Rhet & Comp., Speech	Geometry	Natural Science	World History			
	11	KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,	2 Literature Courses			American History I & II	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							
POSTSECONDARY	13 (Fall)	EJE 101 Ind. Elect. Ele 102 PC Maint & Repir, ELE 110 Active Devices, ELE 130 Into to PLCs							
	13 (Spring)	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. 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 Rochelle Township High School

Program of Study: Electricity, Electronic Communication Technology Cert. # 439 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 I	Algebra I	Biology	World Geography	Business Ed		
	10	Energy and Transportation	Rhet & Comp., Speech	Geometry	Natural Science	World History			
	11	KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,	2 Literature Courses	Algebra II	Chemistry	American History I & II	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	Expos/ENG 103 (DC)						
POSTSECONDARY	13 (Fall)	EJE 101 Ind. Elect. Ele 102 PC Maint & Repir, ELE 110 Active Devices, ELE 130 Into to PLCs					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,		MT 151					
	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