

Program of Study Sequence

Community College Kishwaukee College High School DeKalb 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	Earth/Space Science	World Geo/ Culture I & II	Business Ed	Work Based Learning Activities (11 & 12)	
	10	Energy and Transportation	English II Speech	Geometry	Biology	Dev of Western Civilization 1 & 2			
	11	KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,	English III	Algebra II	Chemistry	US History	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	English IV	Pre-calculus	Physics	US Government			
POSTSECONDARY	13 (Fall)	EIE 101 Ind. Elect. Ele 102 PC Maint & Repair, 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.
	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 DeKalb 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	Earth/Space Science	World Geo/ Culture I & II	Business Ed	Work Based Learning Activities (11 & 12)	
	10	Energy and Transportation	English II Speech	Geometry	Biology	Dev of Western Civilization 1 & 2			
	11	KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,	English III	Algebra II	Chemistry	US History	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	English IV		Physics	US Government			
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 DeKalb 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 I	Algebra I	Earth/Space Science	World Geo/ Culture I & II	Business Ed	Work Based Learning Activities (11 & 12)	
	10	Energy and Transportation	English II Speech	Geometry	Biology	Dev of Western Civilization 1 & 2			
	11	KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,	English III			US History	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			US Government				
POSTSECONDARY	13 (Fall)	EIE 101 Ind. Elect. Ele 102 PC Maint & Repair, 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 DeKalb 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	Earth/Space Science	World Geo/ Culture I & II	Business Ed	Work Based Learning Activities (11 & 12)	
	10	Energy and Transportation	English II Speech	Geometry	Biology	Dev of Western Civilization 1 & 2			
	11	KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,	English III			US History	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				US Government			
POSTSECONDARY	13 (Fall)	ELE 101 Ind. Elect. Ele 102 PC Maint & Repair, 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](#)