

Program of Study Sequence

Community College Kishwaukee College High School Sycamore 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	Physical Science	World Cultures (Opt)		
	10	Energy and Transportation	English II & Speech	Geometry	Biology or BSAA	World Cultures (Opt)		
	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	American History	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	Trigonometry	Physics			
POSTSECONDARY	13 (Fall)	EIE 101 Ind. Elect. Ele 102 PC Maint & Repair, ELE 110 Active Devices, ELE 130 Intro 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.		Skills USA	
	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					Skills USA	
	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		

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Program of Study Sequence

Community College Kishwaukee College High School Sycamore 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 I	Algebra I	Physical Science	World Cultures (Opt)	Foreign Language		
	10	Energy and Transportation	English II & Speech	Geometry	Biology or BSAA	World Cultures (Opt)			
	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	Courses Required for Graduation	American History	Foreign Language 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	Trigonometry	Chemistry of Physics	Government Consumer Ed.			
POSTSECONDARY	13 (Fall)	EIE 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,					Skills USA		
	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)								

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Program of Study Sequence

Community College Kishwaukee College High School Sycamore High School

Program of Study: Electrician Cert. # 435 CIP Code 46.0302

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 I	Algebra I	Physical Science	World Cultures (Opt)		
	10	Energy and Transportation	English II & Speech	Geometry	Biology or BSAA	World Cultures (Opt)		
	11	KEC Dual Credit Manufacturing Eng. Tech. MT 151 Shop Math I, MT 101 Blueprint Reading, MT 215 Manufacturing Processes I,	English III		Courses Required for Graduation	American History	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)	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)							

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Program of Study Sequence

Community College Kishwaukee College High School Sycamore 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	Physical Science	World Cultures (Opt)		
	10	Energy and Transportation	English II & Speech	Geometry	Biology or BSAA	World Cultures (Opt)		
	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	American History	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					
POSTSECONDARY	13 (Fall)	ELE 101 Ind. Elect. Ele 102 PC Maint & Repir, ELE 110 Active Devices, ELE 130 Into to PLCs		MT 151			CIS Elective, CAD elective , AET Elective or Electricity Elective 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)							

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