



TWO DEGREES, ONE PATH

TRANSFER PATHWAY GUIDE 2025-2026

Associate in Science to
Bachelor of Science in Electrical and Electronic Engineering Technology

Overview

Completion of the following curriculum will satisfy the requirements for the Associate in Science (AS) degree at Gateway Community and Technical College (GCTC) and leads to the Bachelor of Science (BS) in Electrical and Electronic Engineering Technology degree at Northern Kentucky University (NKU).

Applying to the Gateway2NKU Program

Students can apply to participate in the pathway program by completing the online application on the NKU transfer webpage. Students must be enrolled in at least six credit hours at Gateway CTC, enrolled in an associate degree program, plan to transfer to NKU, and maintain a minimum 2.0 cumulative GPA at Gateway CTC.

Degree Requirements for GCTC

1. Completion of minimum 60 credit hours
2. Minimum cumulative GPA 2.0
3. Minimum of 15 credit hours earned at the institution awarding the degree,
4. Demonstration of digital literacy
5. College success requirement

Admission Requirements to NKU

Students completing an associate degree with a cumulative GPA of 2.0 or higher will be accepted into NKU

Degree Requirements for NKU

To earn a bachelor's degree at NKU, students must:

1. Complete a minimum of 120 credit hours
2. Complete at least 25% of the credit hours required at NKU
3. Complete the last 30 credit hours at NKU

4. Complete at least 45 credit hours numbered 300 or above
5. Minimum 2.0 cumulative GPA across all major coursework
6. Meet all requirements for the major
7. Completion of a minor, focus, or second major (if required by major)

This program provides students with both the technological and managerial skills necessary to enter careers in design, application, installation, manufacturing, operation, and maintenance of electrical or electronics systems. Graduates gain skills to analyze, design, apply, and troubleshoot systems with electronic, digital, analog, microcontroller, software, and mechanical components. The combination of practical and theoretical education leads to graduates with diverse technical skills throughout a wide range of applications. Students are required to take cooperative education (“co-op”) in industry starting with their second year at school, which often continues and leads to full-time employment.

The Bachelor of Science in Electrical and Electronic Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, <https://www.abet.org>, under the commission’s General Criteria and Program Criteria for Electrical/Electronic(s) Engineering Technology and Similarly Named Programs.

Students are required to complete the core and a track. A minor is not required. Students in this degree program may not apply for the Electronics Technology Minor.

General Transfer Information

Students must complete the online application to NKU. There is no application fee for students who are transferring from GCTC.

KCTCS Scholars Award: Students who are KY residents transferring directly from a KCTCS institution with at least 36 hours from that institution and minimum GPA of 3.0, were never enrolled as a degree-seeking student at NKU, and will be enrolled in at least 12 credit hours both fall and spring semester are eligible for a limited number of annual scholarships (fall and spring only). Students must gain admission to NKU by June 15 for fall and November 1 for spring to be eligible for a possible scholarship. Online accelerated programs are not eligible for the KCTCS Scholars Award.

Tuition and scholarship information specific to transfer students can be viewed on the [NKU Adult & Transfer Center website](#).

GCTC AS TO NKU BS IN ELECTRICAL AND ELECTRONIC ENGINEERING TECHNOLOGY CHECKLIST

Gateway Community and Technical College

Category 1: GCTC General Education Core Requirements

GCTC Course	Course or Category	Credits	NKU Course	Completed
ENG 101	Writing I (WC)	3	ENG 101	
ENG 102	Writing II (WC)	3	ENG 102	
TBS XXX	Oral Communication (OC)	3	TBD XXX	
MAT 171	Precalculus (QR)	5	MAT 103 + MAT 119	
STA 220	Statistics (QR)	3	STA 205	
Taken at NKU	Chemistry: An Engineering Approach	4	CHE 130/ CHE 130L	
PHY 201/202	College Physics I/College Physics Laboratory I	5	PHY 211	
SOC 101	Introduction to Sociology (SB)	3	SOC 100	
TBS XXX	Social Behavioral Science Course (SB)	3	TBD XXX	
TBS XXX	Arts & Humanities (AH) – Heritage	3	TBD XXX	
TBS XXX	Arts & Humanities (AH) – Humanities	3	TBD XXX	
	Subtotal General Education Core Courses	38		

TBS XXX means to be selected by GCTC student.

TBD XXX means to be determined by NKU based on course selected.

For Social and Behavioral Sciences courses, two disciplines must be represented and different from those in the Arts and Humanities category.

Category 2: GCTC AS Requirements

GCTC Course	Course or Category	Credits	NKU Course	Completed
MAT 175	Calculus I (QR)	5	MAT 129	
	Subtotal AS Requirement Courses	5		

Category 3: GCTC Electives

GCTC Course	Course or Category	Credits	NKU Course	Completed
FYE 105 or FYE 100	Achieving Academic Success or First Year Experience and Applications	3	UNV100T	
ELT 110 or IMT 110 + IMT 111	Circuits I or Industrial Maintenance Electrical Principles with Lab	5	EGT 161	
ELT 120	Digital I	3	EGT 245	
ELT 260	Robotics and Industrial Automation	5	EGT 320	

GCTC Course	Course or Category	Credits	NKU Course	Completed
EGT 267U or CAD 100*	Programming for Engineering Applications	3	EGT 267 or EGT 212	
	Subtotal Elective Courses	19		
	Total Associate Degree Hours	62		

*CAD 100 is recommended only if FYE 110 was not completed and a digital literacy course is needed.

Northern Kentucky University

Category 4: NKU Major Requirements for BS in Electrical and Electronic Engineering Technology

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
CHE 130/130L	Chemistry: An Engineering Approach	4	Taken at NKU	x
MAT 119	Precalculus Mathematics	3	MAT 171	x
MAT 129	Calculus I	4	MAT 175	x
PHY 211	General Physics with Laboratory I	4	PHY 201/202	x
PHY 213	General Physics with Laboratory II	4	PHY 203/204	
SOC 100	Introduction to Sociology	3	SOC 101	x
STA 205	Statistical Methods	3	STA 220	x
EGT 161	DC Circuit Analysis	3	ELT 110	x
EGT 212	Computer-Aided Drafting and Design	3	CAD 100	x
EGT 243	AC Circuit Analysis	3	ELT 114	
EGT 245	Digital Electronics	3	ELT 120	x
EGT 267	Programming for Engineering Applications	3	EGT 267U	x
EGT 301	Cooperative Education in Engineering Technology	3		
EGT 310	Project Management and Problem Solving	3		
EGT 330	Electrical Machines	3	EET 270 + EET 271	x
EGT 344	Analog Electronics	3		
EGT 367	Microprocessors	3		
EGT 377	Power Electronic Systems	3		
EGT 386	Electro-Mechanical Instrumentation and Control	3	EET 272 + EET 276	
EGT 402	Control Systems	3		
EGT 404	Signals and Systems	3		
EGT 416	Capstone I	1		
EGT 417	Capstone II	3		
EGT 448	Network Hardware	3	CIT 160	
EGT 467	Advanced Microprocessors	3		
EGT 477	Advanced Power Designs	3		

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
Select 5:	Select 5 courses (15 credits) from the following:			
EGT 261	Engineering Materials			
EGT 280	Introduction to Microsystems			
EGT 300	Statics and Strength of Materials			
EGT 318	Introduction to Nanotechnology			
EGT 320	Robotic Systems and Material Handling		ELT 260 or MFG 135= EGT 320	Need 12 additional credit hours
EGT 321	Productivity Management, Scheduling and Planning	15		
EGT 340	Applied Dynamics		FPX 100 + FPX 101 = EGT 361	
EGT 361	Fluid Power			
EGT 394	Special Topics (1-3 credits)			
EGT 405	Metrology and Geometric Tolerancing			
EGT 408	Mechatronics Topics			
EGT 412	Advanced CADD			
EGT 423	Planning and Design of Industrial Facilities			
EGT 450	Thermodynamics and Heat Transfer			
	Subtotal Major Credit Hours at NKU	63		
	Subtotal Credit Hours at GCTC	62		
	Total Major Credit Hours	95		
	Total Baccalaureate Degree Credit Hours	125		

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