TRANSFER PATHWAY GUIDE
2023-2024

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) cultural competence course, 5) demonstration of digital literacy, and 6) 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.

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 co-op in industry starting with their second year at school, which often continues and leads to full-time employment.

Degree Requirements for NKU

To earn a bachelor's degree at NKU, students must complete a minimum of 120 credit hours with at least 45 credit hours numbered 300 and above. In addition, at least 25% of the credit hours required for the degree and the last 30 credit hours must be completed at NKU. Students must have an overall GPA of 2.0 and meet all prerequisites for courses and requirements for the major. A minor is not required for this major.

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 $2,500 annual scholarships ($1,250 per fall and spring). 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.

GCTC AS TO NKU BS IN ELECTRICAL AND ELECTRONIC ENGINEERING TECHOLOGY 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	
CHE 170/175	General College Chemistry I and General College Chemistry Laboratory I (SL)	5	CHE 120/ CHE 120L	
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	**39**		

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
CAD 100	Introduction to Computer Aided Design	3	EGT 212	
FYE 105	Achieving Academic Success	3	UNV100T	
ELT 110	Circuits I	5	EGT 161	
ELT 260	Robotics and Industrial Automation	5	EGT 320	
	Subtotal Elective Courses	**16**		
	Total Associate Degree Hours	**60**		

CAD 100 meets the Digital Literacy requirement for KCTCS

Degree Requirement: One course must be selected from the KCTCS identified Cultural Competence course list in the KCTCS catalog.

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	Waived by CHE 170/175	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	EET 200 + EET 201	
EGT 267	Programming for Engineering Applications	3		
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	
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		
EGT 467	Advanced Microprocessors	3		
EGT 477	Advanced Power Designs	3		
Select 5: EGT 261 EGT 280 EGT 300	Select 5 courses (15 credits) from the following: Engineering Materials Introduction to Microtechnology Statics and Strength of Materials	15	ELT 260 = EGT 320	Need 12 additional credit hours

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
EGT 318	Introduction to Nanotechnology		FPX 100 +	
EGT 320	Robotic Systems and Material Handling		FPX 101 =	
EGT 321	Productivity Management, Scheduling and Planning		EGT 361 + EGT 300T	
EGT 340	Applied Dynamics			
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	**65**		
	Subtotal Major Credit Hours at GCTC	**30**		
	Total Major Credit Hours	**95**		
	Total Baccalaureate Degree Credit Hours	**128**		