



TWO DEGREES, ONE PATH

TRANSFER PATHWAY GUIDE 2025-2026

Associate in Science to
Bachelor of Science in Mechatronics Engineering Technology

Overview

Completion of the following curriculum will satisfy the requirements for the Associate in Science (AS) degree at a Gateway Community and Technical College (GCTC) and leads to the Bachelor of Science (BS) in Mechatronics 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)

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 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 MECHATRONICS 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 with Lab (SL)	4	CHE 130/130L	
PHY 201/202	College Physics I and College Physics Laboratory I (SL)	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
CAD 100	Introduction to Computer Aided Design	3	EGT 212	
FYE 105 or FY 110	Achieving Academic Success or First Year Experience and Applications	3	UNV100T	
ELT 120	Digital I	3	EGT 245	
ELT 110	Circuits I	5	EGT 161	
EGT 267U	Programming for Engineering Applications	3	EGT 267	
	Subtotal Elective Courses	16		

GCTC Course	Course or Category	Credits	NKU Course	Completed
	Total Associate Degree Hours	60		

Northern Kentucky University

Category 4: NKU Major Requirements for BS in Mechatronics 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 or (MAT 151 or STA 151)	x
EGT 116	Introduction to Manufacturing	3		
EGT 161	D.C. Circuit Analysis	3	ELT 110	x
EGT 212	Computer-Aided Drafting and Design	3	CAD 100	x
EGT 243	A.C. Circuit Analysis	3	ELT 114	
EGT 245	Digital Electronics	3	ELT 120	x
EGT 261	Engineering Materials	3		
EGT 267	Programming for Engineering Applications	3	EGT 267U	x
EGT 280	Introduction to Microsystems	3		
EGT 300	Statics and Strength of Materials	3	ELT 201	
EGT 301	Cooperative Education in Engineering Technology	3		
EGT 310	Project Management and Problem Solving	3		
EGT 320	Robotic Systems and Material Handling	3	ELT 260 or MGF 135	
EGT 340	Applied Dynamics	3		
EGT 361	Fluid Power	3	ELT 265 or FPX100/101	
EGT 367	Microprocessors	3		
EGT 386	Electromechanical Instrumentation and Control	3	ELT 244 + ELT 250 = EGT 386 + EGT 300T	
EGT 402	Control Systems	3		
EGT 408	Mechatronics Topics	3		
EGT 416	Capstone I	1		
EGT 417	Capstone II	3		

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
	Four EGT XXX courses excluding core of MET and excluding EGT 110		12	
	Subtotal Major Credit Hours at NKU	65		
	Subtotal Credit Hours at GCTC	60		
	Total Major Credit Hours	95		
	Total Baccalaureate Degree Credit Hours	125		

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