



TWO DEGREES, ONE PATH

TRANSFER PATHWAY GUIDE 2025-2026

Associate in Science to
Bachelor of Science in Mechanical and Manufacturing Engineering Technology

Overview

Completion of the following curriculum will satisfy the requirements for the Associate in Science (AS) degree at a Kentucky Community and Technical College System (KCTCS) institution and leads to the Bachelor of Science (BS) in Mechanical and Manufacturing Engineering Technology degree at Northern Kentucky University (NKU).

Applying to the KCTCS2NKU 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 a KCTCS institution, enrolled in an associate degree program, plan to transfer to NKU, and maintain a minimum 2.0 cumulative GPA at their KCTCS institution.

Degree Requirements for KCTCS

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, and 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.

The accredited Bachelor of Science in mechanical and manufacturing engineering technology focuses on the design and development of parts, processes, and systems. Under this program graduates will acquire knowledge, problem-solving ability, and hands-on skills to enter careers in the design, installation, manufacturing, testing, evaluation, technical sales, or maintenance of mechanical systems. In addition, graduates will have strengths in the analysis, applied design, development, implementation, or oversight of more advanced mechanical systems and processes.

This bachelor's degree program is designed to provide students with the knowledge and skills needed to succeed as engineers in today's industry. Students are required to co-op in industry starting with their second year, which often continues and leads to full-time employment. Together with the study of engineering principles, design is the cornerstone of the mechanical and manufacturing engineering technology degree program.

The MMET program is accredited by the Engineering Technology Accreditation Commission of ABET (<http://www.abet.org>).

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 a KCTCS institution.

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.

KCTCS AS TO NKU BS IN MECHANICAL AND MANUFACTURING ENGINEERING TECHNOLOGY CHECKLIST

Kentucky Community and Technical College System

Category 1: KCTCS General Education Core Requirements

KCTCS Course	Course or Category	Credits	NKU Course	Completed
ENG 101	Writing I (WC)	3	ENG 101	
ENG 102	Writing II (WC)	3	ENG 102	
COM 181 or COM 252	Basic Public Speaking (OC) or Introduction to Interpersonal Communications (OC)	3	CMST 110 CMST 220	
MAT 171	Precalculus (QR)	5	MAT 103 + MAT 119	
(MAT 151 or STA 151 or MAT 161) + STA 251 or STA 220	Applied Statistics Sequence (QR) or Statistics (QR)	3-8	STA 100G + STA 205 or 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/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	39-44		

TBS XXX means to be selected by KCTCS 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.

Students who are calculus-ready are not required to take pre-calculus.

Category 2: KCTCS AS Requirements

KCTCS Course	Course or Category	Credits	NKU Course	Completed
MAT 175	Calculus I	5	MAT 129	
	Subtotal AS Requirement Courses	5		

Category 3: KCTCS Electives

KCTCS Course	Course or Category	Credits	NKU Course	Completed
	First-Year Experience	0-3		
CAD 100	Introduction to Computer Aided Design	3	EGT 212	
ELT 201	Statics and Strength of Materials	3	EGT 300	
ELT 260	Robotics and Industrial Automation	5	EGT 320	
PHY 203/204	College Physics/College Physics Laboratory II	5	PHY 213	
	Subtotal Elective Courses	16-19		
	Total Associate Degree Hours	60-68		

Northern Kentucky University
Category 4: NKU Major Requirements for BS in Mechanical and Manufacturing Engineering Technology

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
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	x
SOC 100	Introduction to Sociology	3	SOC 101	x
STA 205	Statistical Methods	3	STA 220 or (MAT 151 or STA 151 or MAT 161) + STA 251	x
EGT 116	Introduction to Manufacturing	3	WLD 152	
EGT 162	Industrial Electricity	3	Waived by ELT 110	
EGT 211	Quality Control	3	QMS 101	
EGT 212	Computer-Aided Drafting and Design	3	CAD 100	x
EGT 260	Industrial Standards, Safety, and Codes	3		
EGT 261	Engineering Materials	3		
EGT 265	Manufacturing Processes and Metrology	3		
EGT 267	Programming for Engineering Applications	3		
EGT 300	Statics and Strength of Materials	3	ELT 201	x
EGT 301	Cooperative Education in Engineering Technology	3		

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
EGT 310	Project Management and Problem Solving	3		
EGT 320	Robotic Systems and Material Handling	3	ELT 260	x
EGT 340	Applied Dynamics	3		
EGT 361	Fluid Power	3	ELT 265 or FPX 100 + FPX 101	
EGT 365	CNC & Manufacturing Process Planning	3	CMM 130	
EGT 386	Electro-Mechanical Instrumentation and Control	3	ELT 244 + ELT 250	
EGT 405	Metrology and Geometric Tolerancing	3		
EGT 416	Capstone I	1		
EGT 417	Capstone II	3		
EGT 450	Thermodynamics and Heat Transfer	3		
EGT 465	Automated Manufacturing Systems	3		
EGT 480	Machine Design	3		
Select 2: EGT 280 EGT 318 EGT 321 EGT 330 EGT 362 EGT 366 EGT 392 EGT 411 EGT 412 EGT 423 EGT 462 EGT 465	Select two courses from the following: Introduction to Microsystems Introduction to Nanotechnology Productivity Management, Scheduling, and Planning Electrical Machines Tool Design and Computer Aided Manufacturing Additive Manufacturing Directed Research: Engineering Technology Quality Assurance and Auditing Advanced CADD Planning and Design of Industrial Facilities Finite Element Modeling Automated Manufacturing Systems	6		
	Subtotal Major Credit Hours at NKU	61		
	Subtotal Major Credit Hours at KCTCS	34		
	Total Major Credit Hours	95		
	Total Baccalaureate Degree Credit Hours	121-129		

Optional Concentrations:

Students interested in ASQ or SME certificate preparation should take EGT 321, EGT 341, and EGT 411.

Students interested in systems and controls courses should take EGT 386 and EGT 260.

Students interested in ISO standards should take EGT 260 and EGT 405.

Updated June 2025