

SAMPLE 4-YEAR PLAN: Mechatronics ENGINEERING TECHNOLOGY B.S.

Northern Kentucky University

This is **one way** a student can complete this program in four years if the student requires no remedial courses.

MAJOR: Mechatronics Engineering Technology

FIRST YEAR	Fall Semester		Spring Semester	
	EGT 161 DC Circuit Analysis	3	EGT 245 Digital Electronics	3
EGT 212 Computer-Aided Drafting and Design	3	MAT 128 Calculus A	3	
ENG 101 College Writing ¹	3	EGT 265 Manufacturing Processes & Metrology	3	
MAT 119 Pre-Calculus Mathematics	3	PHY 211 General Physics with Laboratory I	5	
CMST 101 Public Speaking	3	Track and/or EGT elective ²	3	
	TOTAL	15	TOTAL	17
SECOND YEAR	Fall Semester		Spring Semester	
	STA 205 Introduction to Statistical Methods	3	EGT 344 Analog Electronics	3
EGT 243 AC Circuit Analysis ³	3	EGT 310 Project Management and Problem Solving	3	
EGT 267 Programming for Engineering Applications	3	CHE 130 Eng. Chemistry I and CHE 130L Eng. Chem. I Laboratory	4	
MAT 227 Calculus B	3	Track and/or EGT elective ²	3	
EGT 243 AC Circuit Analysis ³	3	EGT 361 Fluid Power	3	
EGT 291W Writing in Eng. Technology ¹	3			
	TOTAL	18	TOTAL	16
THIRD YEAR	Fall Semester		Spring Semester	
	EGT 261 Engineering Materials	3	Gen Ed: Self and Society	3
EGT 300 Statistics and strength of Materials	3	EGT 340 Applied Dynamics	3	
EGT 317 Intro to Capstone Project	1	EGT 408 Mechatronics	3	
EGT 367 Microprocessors ⁴	3	SOC 100 or PHI 200 Ethics related	3	
Track and/or EGT elective ²	3	EGT 301 Cooperative Education in Engineering Technology	3	
Gen Ed: Self and Society	3	Track and/or EGT elective ²	3	
	TOTAL	16	TOTAL	18
FOURTH YEAR	Fall Semester		Spring Semester	
	EGT 448 Network Hardware	3	Gen Ed: Culture and Creativity	3
PHY 213 General Physics with	5	EGT 480 Machine Design	3	

	Laboratory II			
	Track and/or EGT elective ²	3	EGT 417 Senior Design in Technology	2
	Track and/or EGT elective ²	3	Track and/or EGT elective ²	3
	Gen Ed: Self and Society	3	Gen Ed: Culture and Creativity	3
	TOTAL	17	TOTAL	14
GRAND TOTAL OF CREDITS				128

¹ Qualified students (ENG ACT ≥ 26) should take ENG 151 instead of ENG 101 and ENG 291.

Alternative Systems Track and Laser Technology Track are offered at Cincinnati State Community College. Students must take these courses and transfer them to NKU before their last 30 credit hours toward their degree.

Automated Systems Track and Computer Science Track are offered at NKU.

³ EGT 243 is offered Fall of odd-numbered years, and is a prerequisite for EGT 404.

⁴ EGT 344 is offered spring of odd-numbered years.

⁵ EGT 404 is offered spring of odd-numbered years.

It is not possible in four years to fulfill all MET degree requirements without taking more than 16 credit hours in some semesters, due to accreditation requirements.

Note: Currently, due to increased enrollments, all required courses for the program are offered every year.