

SAMPLE 4-YEAR PLAN: MECHANICAL AND MANUFACTURING ENGINEERING 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: Mechanical and Manufacturing Engineering Technology

FIRST YEAR	Fall Semester		Spring Semester	
	EGT 116 Introduction to Industrial Materials and Processes	3	EGT 265 Manufacturing Processes and Metrology	3
EGT 161 DC Circuit Analysis	3	EGT 212 Computer-Aided Drafting and Design	3	
MAT 119 Pre-Calculus Mathematics	3	CMST 101 Public Speaking	3	
ENG 101 College Writing ¹	3	STA 205 Introduction to Statistical Methods	3	
Gen Ed: Self and Society	3	Gen Ed: Self and Society	3	
	TOTAL	15	TOTAL	15
SUMMER	EGT 211 Quality Control ²	3		
SECOND YEAR	Fall Semester		Spring Semester	
	PHY 211 General Physics with Laboratory I	5	MAT 227 Calculus B	3
MAT 128 Calculus A	3	CHE 130 Eng. Chemistry I and CHE 130L Eng. Chemistry I Laboratory	4	
EGT 267 Programming for Engineering Applications	3	EGT 320 Robotic Systems and Material Handling	3	
EGT 300 Statistics and Strength of Materials	3	EGT 291W Writing in Engineering Technology ¹	3	
EGT elective ^{3,4}	3			
	TOTAL	17	TOTAL	16
SUMMER			EGT 318 Intro to Nanotechnology ²	3
THIRD YEAR	Fall Semester		Spring Semester	
	EGT 310 Project Management and Problem Solving	3	PHY 213 General Physics with Laboratory II	5
EGT 261 Engineering Materials	3	EGT 340 Applied Dynamics	3	
EGT 365 CNC and Manufacturing Process Planning	3	EGT 405 Metrology and Geometric Tolerancing ⁵	3	
EGT 361 Fluid Power	3	EGT elective ³	3	
EGT 301 Coop Education in Engineering Technology	3	EGT 317 Intro to Capstone Project	1	
	TOTAL	15	TOTAL	15
FOURTH YEAR	Fall Semester		Spring Semester	
	EGT elective or Gen Ed – self & society	3	EGT 465 Automated Manufacturing Systems ⁵	3
EGT 480 Machine Design	3	EGT 450 Thermodynamics and Heat Transfer	3	
EGT 417 Senior Design in Technology	2	Gen Ed: Culture and Creativity	3	

Gen Ed: Culture and Creativity	3	EGT elective ^{3,4}	3
PHI 200 or SOC 100 (Ethics related) Gen Ed courses	3	EGT elective or Gen Ed – self & society	3
TOTAL	14	TOTAL	15
GRAND TOTAL OF CREDITS			126

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

² It is not possible in four years to fulfill all MMET degree requirements without taking summer school or overloads or both, due to accreditation requirements. EGT 211 and EGT 318 are offered *only* in the summer.

³ Students must have one of the following concentrations (Design or Quality) plus two optional courses, in consultation with their advisor: EGT 412 and EGT 462; or EGT 321 and EGT 341. Two of the following: EGT 260, EGT 280, EGT 362, EGT 386, EGT 423, and EGT 411.

⁴ EGT 321 and EGT 341 are offered in fall and spring 2014/15 and alternate years.

⁵ EGT 405 is offered in spring of odd-numbered years. EGT 465 is offered in spring of even-numbered years. Shaded credits are part of the general education requirements.

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