

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	CHE 120 General Chemistry I and CHE 120L General Chemistry I Laboratory	4	
Gen Ed: Self and Society	3	Gen Ed: Self and Society	3	
TOTAL	15	TOTAL	16	
SUMMER	EGT 211 Quality Control	3	EGT 318 Introduction to Nanotechnology	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	EGT 320 Robotic Systems and Material Handling	3	
INF 120 Elementary Programming	3	STA 205 Introduction to Statistical Methods	3	
EGT 261 Engineering Materials	3	EGT 291W Writing in Engineering Technology ¹	3	
EGT elective ^{3,4}	3	EGT elective ^{3,4}	3	
TOTAL	17	TOTAL	15	
THIRD YEAR	Fall Semester		Spring Semester	
	EGT 310 Project Management and Problem Solving	3	PHY 213 General Physics with Laboratory II	5
EGT 300 Statistics and Strength of Materials	3	EGT 340 Applied Dynamics	3	
EGT 365 CNC and Manufacturing Process Planning	3	EGT 423 Planning and Design of Industrial Facilities ⁵	3	
EGT elective or Gen Ed: Self and Society ³	3	EGT elective ³	3	
EGT 301 Cooperative Education in Engineering Technology	3	PHI 200 Ethics	3	
TOTAL	15	TOTAL	17	
FOURTH YEAR	Fall Semester		Spring Semester	
	EGT 361 Fluid Power	3	EGT 465 Automated Manufacturing Systems ⁵	3
EGT 380 Machine Design	3	EGT 417 Senior Design in Technology	3	
EGT 417 Senior Design in	3	EGT 450 Thermodynamics and	3	

	Technology		Heat Transfer	
	Gen Ed: Non-Culture and Creativity	3	Gen Ed: Culture and Creativity	3
	TOTAL	12	TOTAL	12
GRAND TOTAL OF CREDITS			125	

¹ Qualified students (ENG ACT \geq 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 386, EGT 405, and EGT 411.

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

⁵ EGT 423 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.