

Gateway **S.M.A.R.T.** Plan

Associate of Applied Science: Manufacturing Engineering Technology

A minimum of 14 credit hours must be taken from the approved technical elective list. Courses may be substituted with the approval of the program coordinator. GTW-2-NKU Pathway for Bachelor degree is available, which is more specific in terms of technical electives and general education courses. Note: There may be course changes with future curriculum revisions that may affect a change in course requirements listed on this sheet.

Pre-requisite Courses

Introduction to Business, Circuits I, College Algebra and Trigonometry are pre-requisites

Semester 1 Courses	Cr	Grade	Offered
ELT 110 Circuits I (pre-req for MFG 135) **	5		Fall/Spring
BAS 160 Introduction to Business (pre-req for BAS 289) **	3		All
General Education course-MAT 150 College Algebra (pre-req for STA 220, MAT 155 & ELT 201)**	3		All
General Education course - ENG 101 Writing I	3		All
Computer/Digital Literacy Course (CIT 105/OST 105) or Competency demonstrated by exam	0-3		All

Semester 2 Courses	Cr	Grade	Offered
MFG 135 Fundamentals of Mechatronics (Fall-days / Spring-evenings) **	6		Fall/Spring
BAS 289 Operations Management (offered online only)	3		Online
General Education course - MAT 155 Trigonometry (pre-req for ELT 201) **	3		Fall/Spring
General Education course - Natural Science (recommend PHY 201/202 College Physics I)	3		All

Semester 3 Courses	Cr	Grade	Offered
ELT 201 Statics and Strength of Materials (Fall-evenings / Spring-days) **	4		Fall/Spring
Technical Elective course(s)	3		Fall/Spring
Technical Elective course(s)	3		Fall/Spring
General Education course - Heritage or Humanities	3		All
General Education course - STA 220 Statistics (recommend before QMS 101) **	3		Fall/Spring

Semester 4 Courses	Cr	Grade	Offered
MFG 175 Lean Manufacturing	2		Online
QMS 101 Introduction to Quality Systems (offered online only)	3		Online
Technical Elective course(s) (recommend IET 1304 - Problem Solving)	1		Online
Technical Elective course(s)	3		Fall/Spring
Technical Elective course(s)	4		Fall/Spring
General Education course - Social/Behavioral Science (recommend SOC 101)	3		All
General Education course - COM 181 Basic Public Speaking (or COM 252)	3		All

Notes

** Critical path - missing these courses during the semester indicated may delay your program completion.

Progression in the Manufacturing Engineering Technology program is contingent upon achievement of a grade of C or greater in each technical course (including those selected as technical electives) and maintenance of a 2.0 cumulative GPA or above (on a 4.0 scale).

Updated 6/2/17

