Manufacturing Technology Associate in Applied Science to NIU Bachelor of Science in Applied Manufacturing (BS-AMT)

Students should use this guide, the NIU Plus Guide and see an IVCC Counselor to choose coursework.

^{**}CAD 1200 automatically subs for GNT1209.

FALL SEMESTER (YR1)		SUMMER SEMESTER	
CAD 1200 Computer Aided Draft I AutoCAD**	3	MET 2206 Manufacturing Tech Internship	3
IMT 1200 Equipment Maintenance	3	Supporting elective*	2=5
GNT 1208 Industrial Safety	1		
MET 1202 Manufacturing Materials & Processes I	4	FALL SEMESTER (YR2)	
MTH 1008 General Elementary Statistics	3=14	ELE 1200 Basic Industrial Electricity I	4
		ENG 1205 Writ Comm Skills for Bus Ind & Tech	3
SPRING SEMESTER (YR1)		MET 1204 Tooling Processes I	3
CNC 1200 Fundamentals of CNC Operations	3	MET 2201 Statistical Quality Control Techniques (Offered	
MET 1200 Inspection, Measurement & Quality (Offered		Fall even years only)	3
Spring odd years only)	3	Supporting elective	3=16
MET 1203 Manufacturing Materials & Processes II	3		
SPH 1001 Fundamentals of Speech	3	SPRING SEMESTER (YR2)	
NIU Society & Culture Course (see NIU Plus Guide)		IMT 1205 Industrial Hydraulics	3
(Economics preferred)	3=15	IMT 1206 Industrial Pneumatics	2
		MET 1205 Tooling Processes II	3
		NIU General Education Course (see NIU Plus Guide)	3=11
		TOTAL=	= 61

^{*}Supporting Electives: CAD 2201, CNC 1202, ELE 1201, ELE 1206, IMT 1220, WLD 1200

To be eligible for admission to the B.S. in Engineering Technology degree-completion program, with an emphasis in Applied Manufacturing Technology, you must have completed – or be working to complete – an Associate of Applied Science (AAS) degree in a technology-oriented related field. The courses below must be completed in order to be eligible for the program. Some of these courses may be completed as a part of your AAS degree. Use the NIU Plus Guide @IVCC for course selection. See a IVCC Counselor for details.

General Education Requirements + Technology Foundations*		Illinois Valley CC Equivalents	
General Education (35 Hrs) Foundational Studies (12 Hrs) Knowledge Domain Studies (23 Hrs)	Foundational	1 st + 2 nd Year Rhetoric/Composition (6 Hrs)	ENG 1001 + 1002
		Oral Communications (3 Hrs)	SPH 1001
	Studies		Trigonometry or Pre-calculus is required:
	Quantitative Literacy (3 Hrs)	MTH 1003 & 1004 (both courses);	
		or MTH 1005 = MATH 155 at NIU	
	Creativity & Critical Analysis (6 Hrs)	See NIU Articulation Tables	
	Knowledge	Nature & Technology (8 Hrs)	• CHM 1004
	Nature & Technology (8 Hrs)	• PHY 2003	
	Studies	Society & Culture (6 Hrs)	See NIU Articulation Tables
	(23 Hrs)	Gen Ed from any of the Knowledge	See NIU Articulation Tables
		Domain areas above (3 hrs)	See NO Articulation Tables
Human Diversity Requirement (3		ty Requirement (3 hrs) refer to NIU catalog	Can be satisfied with a Gen Ed course
Additional	dditional Basic Statistics (3 Hrs)		MTH 1008
Technology	echnology Technical Writing (3 Hrs)		ENG 1205 or ENG 2000
Foundations	oundations Technology (3 Hrs)		CAD 1200 or 1201

Upon completion of this curriculum outline and acceptance to the Applied Manufacturing Technology major at NIU, students can complete the program in 30 additional NIU credit hours (listed below) online (part time only over 2 years) or on-campus, whichever they prefer. 120 credits total are required for the BS-AMT degree.

NIU contact for questions:

College of Engineering and Engineering Technology 815-753-1442 ceetadvising@niu.edu

- a. Required NIU Technology Courses (24 semester hours)
 - TECH 391: Industrial Quality Control
 - . TECH 404: Supervision in Industry
 - · TECH 406: Facilities Management Technology
 - TECH 429: Plant Location, Layout & Materials Management
 - TECH 432: Disaster Preparedness
 - TECH 434: Human Factors in Industrial Accident Prevention
 - TECH 492: Manufacturing Distribution Applications
 - · TECH 496: Industrial Project Management
- b. NIU Technology Electives (6 semester hours)
 - TECH 305: Green Technologies
 - . TECH 402: Industrial Training & Evaluation
 - TECH 435: Legal Aspects of Safety
 - TECH 442: Work Simplification & Measurement
 - TECH 444: Manufacturing Control Systems
 - TECH 484: Energy Management