

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.

FALL SEMESTER (YR1)

IMT 1200 Equipment Maintenance	3
GNT 1208 Industrial Safety	1
MET 1202 Manufacturing Materials & Processes I	3
MET 1203 Manufacturing Materials & Processes II	3
MTH 1008 General Elementary Statistics	3=13

SPRING SEMESTER (YR1)

CAD 1200 Computer Aided Draft I AutoCAD**	3
MET 1200 Inspection, Measurement & Quality (Offered Spring odd years only)	3
MET 1204 Tooling Processes I	3
MET 1205 Tooling Processes II	3
SPH 1001 Fundamentals of Speech	3=15

SUMMER SEMESTER

MET 2206 Manufacturing Tech Internship	3=3
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FALL SEMESTER (YR2)

CNC 1200 Fundamentals of CNC Operations	3
ELE 1200 Basic Industrial Electricity I	4
ENG 1205 Writ Comm Skills for Bus Ind & Tech	3
MET 2201 Statistical Quality Control Techniques (Offered Fall even years only)	3
Supporting elective*	3=16

SPRING SEMESTER (YR2)

IMT 1205 Industrial Hydraulics	3
IMT 1206 Industrial Pneumatics	2
Supporting elective*	2
NIU Society & Culture Course (see NIU Plus Guide)	3
NIU General Education Course (see NIU Plus Guide)	3=13

TOTAL= 60

**CAD 1200 must be taken for NIU and substitutes for GNT 1209

*Supporting Electives: 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)	1 st + 2 nd Year Rhetoric/Composition (6 Hrs)	ENG 1001 + 1002
		Oral Communications (3 Hrs)	SPH 1001
		Quantitative Literacy (3 Hrs)	Trigonometry or Pre-calculus is required: MTH 1003 & 1004 (both courses); or MTH 1005 = MATH 155 at NIU
	Knowledge Domain Studies (23 Hrs)	Creativity & Critical Analysis (6 Hrs)	See NIU Articulation Tables
		Nature & Technology (8 Hrs)	• CHM 1004 • PHY 2003
		Society & Culture (6 Hrs)	See NIU Articulation Tables
Human Diversity Requirement (3 hrs) refer to NIU catalog	See NIU Articulation Tables	Can be satisfied with a Gen Ed course	
Additional Technology Foundations	Basic Statistics (3 Hrs)	MTH 1008	
	Technical Writing (3 Hrs)	ENG 1205 or ENG 2000	
	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.

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

NIU contact for questions:

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