

120 credits for graduation Credits

	ental/Program Major Co				
	equired Major Courses (				
(3)	MET 10200 Production	Specifications for Designation	gn Documentation		
(3)	MET 11100 Applied Sta				
(1)	MET 11300 Mechanics	Applications			
(3)	MET 14300 Materials at	nd Processes I			
(3)	MET 14400 Materials an	nd Processes II			
(1)	MET 16200 Computation	onal Analysis Tools for I	MET		
(3)	MET 23000 Fluid Power				
(3)	MET 24500 Manufactur				
(3)	MET 28400 Introductio				
(3)	MET 38200 Controls & 1				
(3)	MFET 34400 Automated				
(3)	MFET 34800 Industrial	_			
(3)	MFET 37400 Manufactu				
(3)	MFET 44600 Advanced		ons		
(3)	MFET 48000 Project Pla		0115		
(3)	MFET 48100 Integrated		20		
			irses by category (14 credits)		
(2)	Computer Graphics Sele	_			
(3)	Manufacturing Graphics		11 10300)		
	Manufacturing Selective				
(3)	Statistics or Quality Sele		Т 20100)		
(3)	CNIT or CS Selective	ective (11 34200 01 31A	1 30100)		
(3)	CN11 of C3 Selective				
0	ther Departmental /Pro	gram Course Require	ments (55 credits) (include hyp	erlinks where appropriate)	
(3)	Humanities Foundation	nal Outcome Selective	satisfies Human Cultures Humani	ties for core)	
(3)	Social Science Foundat	tional Outcome Selectiv	e (satisfies Human Culture Behavi	oral/Social Science for core)	
(3)			satisfies Information Literacy Sele		
(na)	_		ociety Selective for core)		
(3)	TECH 32000 Technolo		•		
(3)	TECH 33000 Technolo	gy & the Global Society			
(4)	Physics Selective (satis	sfies Science Selective fo	r core)		
(3)	Science Selective		•		
(3)		hemistry (satisfies Scier	ce Selective for core)		
(3)		n (satisfies Written Com			
(3)	ENGL 42100 Technical	` ,	,		
(3)			nications (satisfies Oral Communic	cation for core)	
(3)	ENGL/COM Selective	•	,	,	
(3)	•	- Functions and Trigor	nometry (satisfies <i>Quantitative Re</i>	easoning Selective for core)	
(3)	MA 22100 Calculus for	_		,	
(3)	MA 22200 Calculus for				
(3)	ECET 22400 Electronic	0,0			
(3)	CNIT 17500 Visual Bas	-			
(3)	IET 45100 Monetary A	0 0			
	121 102001101100011911				
Elective	es (7 credits)				
(3)	Technical	(3) Humanities/S		ive ( )	
	elective	Science elect	ve		
Universit	y Core Requirements				
Human Cultures	Humanities		Science, Technology & Society Sele	ective 🛮	
	Behavioral/Social Science		Written Communication		
Information Lite			Oral Communication		
Science Selective			Quantitative Reasoning		
Science Selective					
I C. C. C. SCICCLIVE	School Sc				

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The student is ultimately responsible for knowing and completing all degree requirements.
Degree Works is knowledge source for specific requirements and completion
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Revised 5/2013 (effective Fall 2013)

## **Manufacturing Engineering Technology**

## Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
3	English composition	NA	3	CHM 11100 Genl Chemistry	NA
3	MA 15800 Precalc: Func&Trig	NA	3	MA 22100 Calc for Tech I	MA 15800
3	MET 14400 Matls & Proc II	NA	3	COM 11400 Speech Com	NA
3	TECH 12000 Design Thinking	NA	3	Humanities Found. Outcome Sel	NA
1	MET 16200 Comp Tools	NA	3	MET 14300 Matls & Proc I	NA
13			15		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	MA 22200 Calc for Tech II	MA 22100	3	MET 10200 Prod. Specs	MET 16200, CGT 11000/16300
3	MET 11100 Applied Statics	MA 15800, MET 16200	3	MET 24500 Mfg Systems	MET 14300/14400, CGT 11000/16300
3	ECET 22400 Electronics Sys	MA 15800	3	MET 28400 Intro to Ind Controls	ECET 22400
3	Soc Sci Found Outcome Sel	NA	1	MET 11300 Mech. Apps	MET 11100
2	CGT selective	NA	4	PHYS selective	NA
1	Free elective	NA	3	CNIT 17500 Visual Basic Prog	NA
15			17		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	MET 23000 Fluid Power	MET 11100	3	Manufacturing Selective	
3	MFET 34400 Auto Mfg Proc	MET 24500	3	ENGL 42100 Tech Writing	Freshman comp
3	Mfg Graphics Selective	CGT 11000/16300	3	Stat/Qual Selective	
3	MFET 37400 Mfg Integration I	MET 28400, CNIT 17500	3	CNIT/CS Selective	
3	Science Selective		3	MET 38200 Contls & Inst for Auto	MET 28400
15			15		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	MFET 34800 Ind Robots&Mot	MET 28400	3	MFET 48100 Int Mfg Systems	MFET 48000
3	MFET 44600 Adv Mfg Oper.	MFET Junior+	3	Technical Elective	
3	MFET 48000 Proj Plan for Int	MFET 34800	3	Hum/Soc Sci Elective	
3	TECH 32000 Tech & the Org	TECH 12000	3	ENGL/COM Selective	
3	IET 45100 Monetary Analysis		3	TECH 33000 Tech & Global Soc	TECH 12000
15			15		

<sup>\*</sup>Satisfies a University Core Requirement

120 semester credits required for Bachelor of Science degree.
2.0 Graduation GPA required for Bachelor of Science degree.

Degree Works is knowledge source for specific requirements and completion

<sup>\*\*</sup>Satisfies a Non-departmental Major Course Requirement

## MFET SUPPLEMENTAL INFORMATION All prerequisites must be met.

**CGT SELCTIVE** 

CGT 11000 Technical Graphics Communications CGT 16300 Graphical Communication and Spatial Analysis

MANUFACTURING GRAPHICS SELECTIVE

CGT 22600 Introduction to Constraint-Based Modeling

**TECHNICAL SELECTIVE** 

CGT 32600 Graphics Standards for Product IT 34500 Automatic Identification and Data MET 33400 Advanced Fluid Power Definition (spring) Capture MET 34600 Advanced Materials in

CGT 42300 Product Data Management (spring) IT 35100 Occupational Safety and Health Manufacturing

CGT 42600 Industry Applications of Simulation IT 38100 Total Product Maintenance MET 43200 Hydraulic Motion Control and Visualization (fall) IT 43400 Global Transportation and Logistics MET 43600 Pneumatic Motion Control

MGMT 45500 Legal Background for Business I

FNR 30100 Wood Products/Wood Processes IT 44200 Production Planning

IT 33000 Industrial Sales and Sales IT 48300 Facility Design for Lean Manufacturing OLS 28400 Leadership Principles

Management MET 30200 CAD in the Enterprise

CNIT or CS SELECTIVE

CNIT 10500 Introduction to C Programming

CS 15800 C Programming

CS 15900 Programming Applications for

Engineers Engineers Engineers

STATISTICS OR QUALITY SELECTIVE
STAT 30100 Elementary Statistical Methods

IT 34200 Introduction to Statistical Quality

ENGLISH/COMMUNICATION SELECTIVE

COM 31500 Technical Communications COM 32500 Interviewing Principles and ENGL 30400 Advanced Composition

COM 31800 Principles of Persuasion Practices ENGL 30900 Computer Aided Publishing COM 32000 Small Group Communication COM 41500 Discussion of Technical Problems ENGL 41900 Multimedia Writing

ENGL 20500 Introduction to Creative Writing

PHYS 21800 General Physics PHYS 22000 General Physics PHYS 17200 Modern Mechanics

BIOL 11000 Fundamentals of Biology I CHM 11200 General Chemistry II PHYS 2210 General Physics
BIOL 20300 Human Anatomy and Physiology PHYS 21900 General Physics II PHYS 24100 Electricity and Optics

FRESHMAN COMPOSITION

PHYSICS SELECTIVE

SCIENCE SELECTIVE

**ENGL 10600** 

MANUFACTURING SELECTIVE

A course from Technology, Engineering, Management or Science that has a connection to manufacturing process and materials, controls, systems, innovation or operations and that supports the academic interests of the students.

**Processes and materials** 

AT 27200 Introduction to Composite Technology
AT 30802 Aircraft Materials Processes

ECET 27000 Electronic Prototype Development

Controls

IT 34500 Automatic Identification and Data Capture IT 44500 Problem-solving with Automatic Data Collection

Systems

CGT 32600 Graphics Standards for Product Definition MET 30200 CAD in the Enterprise

CGT 42300 Product Data Management MET 45100 Manufacturing Quality Systems

CGT 42600 Industrial Applications for Simulation

Innovation

OLS 48400 Leadership Strategies for Quality and Productivity ENTR Courses in the Entrepreneurship Certificate program

Operations

IT 38100 Total Productive Maintenance IT 44600 Six Sigma Quality

IT 38500 Industrial Ergonomics IT 48300 Facility Design for Lean Manufacturing
IT 44200 Production Planning MET 54600 Industrial Application of CIM Technology

HUMANITIES FOUNDATIONAL SELECTIVE: (6 credits) see <a href="http://www.purdue.edu/provost/initiatives/curriculum/course.html">http://www.purdue.edu/provost/initiatives/curriculum/course.html</a>
BEHAVIORAL/SOCIAL SCIENCE FOUNDATIONAL SELECTIVE: see <a href="http://www.purdue.edu/provost/initiatives/curriculum/course.html">http://www.purdue.edu/provost/initiatives/curriculum/course.html</a>

FREE ELECTIVE: Any non-remedial course