PURDUE UNIVERSITY

Mechanical Engineering Technology
College of Technology

MET-BS

120 credits for graduation Credits

Departmental/Program Major Courses (58 credits)

Required Major Courses (44 credits)

_____ (3) MET 10200 Production Design & Specifications
_____ (3) MET 11100 Applied Statics
_____ (3) MET 14300 Materials and Processes I
_____ (3) MET 14400 Materials and Processes II
_____ (1) MET 16200 Computational Analysis Tools for MET
_____ (4) MET 21100 Applied Strength of Materials
_____ (3) MET 21300 Dynamics
_____ (3) MET 21400 Machine Elements
_____ (3) MET 22000 Heat/Power
_____ (3) MET 23000 Fluid Power
_____ (3) MET 24500 Manufacturing Systems
_____ (3) MET 28400 Introduction to Industrial Controls
_____ (3) MET 31300 Fluid Mechanics
_____ (3) MET 32000 Thermodynamics
_____ (3) MET 34600 Advanced Materials in Manufacturing

Major Selectives* - Select 5 of the following courses by category (14 credits)

_____ (2) CGT Selective (CGT 11000 or CGT 16300)
_____ (3) Technical Selective
_____ (6) MET electives (see Electives section)
_____ (3) MET Capstone Selective (limited portion of Electives section listing)

Other Departmental /Program Course Requirements (62 credits)

_____ (3) Humanities Foundational Outcome Selective *(satisfies Human Cultures Humanities for core)*
_____ (3) Social Science Foundation Outcome Selective *(satisfies Human Culture Behavioral/Social Science for core)*
_____ (3) ECON 21000 Economic Principles
_____ (3) IET 45100 Monetary Analysis
_____ (3) TECH 12000 Design Thinking in Technology *(satisfies Information Literacy Selective for core)*
_____ (na) TECH 12000 *(satisfies Science, Technology & Society Selective for core)*
_____ (3) TECH 32000 Technology & the Organization
_____ (3) TECH 33000 Technology & the Global Society
_____ (4) PHYS 22000 General Physics *(satisfies Science Selective for core)*
_____ (4) PHYS 22100 General Physics *(satisfies Science Selective for core)*
_____ (3) CHM 11100 General Chemistry
_____ (3) Freshman Composition *(satisfies Written Communication for core)*
_____ (3) ENGL 42100 Technical Writing
_____ (3) COM 11400 Fundamentals of Speech Communications *(satisfies Oral Communication for core)*
_____ (3) COM 32000 Small Group Discussion
_____ (3) MA 15800 Precalculus; Functions and Trigonometry *(satisfies Quantitative Reasoning Selective* for core)
_____ (3) MA 22100 Calculus for Technology I
_____ (3) MA 22200 Calculus for Technology II
_____ (3) STAT 30100 Statistical Methods
_____ (3) CNIT 17500 Visual Basic Programming
_____ (3) ECET 22400 Electronics Systems

Electives

_____ (3) **MET 30200**	_____ (3) **MET 34900**	_____ (3) **MET 42100**	_____ (3) **MET 44301**
_____ (3) **MET 31100**	_____ (3) **MET 38200**	_____ (3) **MET 42600**	_____ (3) **MET 45100**
_____ (3) **MET 31700**	_____ (3) **MET 40000**	_____ (3) **MET 43200**	_____ (3) **MET 48600**
_____ (3) **MET 33400**	_____ (3) **MET 41100**	_____ (3) **MET 43600**	_____ (3) **MET 49000**

University Core Requirements

Human Cultures Humanities ☐ _____ *Science, Technology & Society Selective* ☐ _____

Human Cultures Behavioral/Social Science		*Written Communication*	
Information Literacy		*Oral Communication*	
Science Selective		*Quantitative Reasoning*	
Science Selective			

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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)

Mechanical Engineering Technology

Suggested Arrangement of Courses:

Credits	**Fall 1st Year**	**Prerequisite**	Credits	**Spring 1st Year**	**Prerequisite**
3	MA 15800 Precalc: Func&Trig	NA	3	MA 22100 Calc for Tech I	MA 15800/ALEKS
2	CGT Selective	NA	3	MET 11100 Applied Statics	MA 15800/MET 16200
1	MET 16200 Comp Anal Tools	NA	3	MET 14300 Matls & Proc I	NA
3	MET 14400 Matls&Proc II	NA	4	PHYS 22000 Genl Physics	NA
3	TECH 12000 DesThink inTech	NA	3	Freshman Composition	NA
3	COM 11400 Speed	NA			
15			**16**		

Credits	**Fall 2nd Year**	**Prerequisite**	Credits	**Spring 2nd Year**	**Prerequisite**
3	MET 10200 Prod Des & Specs	CGT sel/MET 16200	3	MET 21400 Machine Elements	MET 21100/MET 21300
4	MET 21100 Strength of Matls	MET 11100/MA 221 conc	3	MET 23000 Fluid Power	MET 11100 or PHYS 22000
3	MET 21300 Dynamics	MET 11100/MA 22100	3	MET 24500 Mfg Systems	MET 14300 or 14400; CGT selective
4	PHYS 22100 General Phys	PHYS 22000	3	MET 28400 Intro to Ind Contrls	ECET 22400
3	ECET 22400 Electronics Sys	MA 15800	3	Humanities Found Out. Selective	NA
17			15		

Credits	**Fall 3rd Year**	**Prerequisite**	Credits	**Spring 3rd Year**	**Prerequisite**
3	MA 22200 Calc for Tech II	MA 22100	3	MET 32000 Thermodynamics	MET 22000
3	CHM 11100 General Chem	NA	3	MET 34600 Adv. Matls in Mfg	CHM 11100/MET 24500
3	CNIT 17500 Visual Basic Prog	NA	3	STAT 30100 Stat. Methods	
3	MET 22000 Heat/Power	MA 22100/PHYS 22000	3	ECON 21000 Econ. Principles	
3	TECH 32000 Tech & Org	TECH 12000	3	TECH 33000 Tech & Global Soc.	TECH 12000
15			**15**		

Credits	**Fall 4th Year**	**Prerequisite**	Credits	**Spring 4th Year**	**Prerequisite**
3	MET Elective		3	MET Elective	
3	Technical Selective		3	MET Capstone Selective	
3	MET 31300 Fluid Mechanics	MA 22100, MET 23000	3	ENGL 42100 Technical Writing	Freshman Comp
3	COM 32000 Small Group Disc	COM 11400	3	Social Science Found. Outcome	NA
3	IET 45100 Monetary Anal		3		
15			**12**		

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

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