PURDUE UNIVERSITY

Mechanical Engineering Technology TSAP Guidance Document
Purdue Polytechnic Institute

PIMET-BS
METC
120-cr for graduation
"D-" or better required in all major courses

Departmental/Program Major Courses (120 credits)

Required Major Courses (56 credits)

TSAP	(3)	MET 10200 – Production Specifications
TSAP	(3)	MET 11100 – Applied Statics
TSAP	(3)	MET 14300 – Materials and Processes I
	(3)	MET 14400 – Materials and Processes II
	(4)	MET 21100 – Applied Strength of Materials
	(3)	MET 21300 - Dynamics
	(3)	MET 22000 - Heat/Power
TSAP	(3)	MET 23000 -- Fluid Power
	(3)	MET 24500 – Manufacturing Systems
TSAP	(3)	MET 28400 – Introduction to Industrial Controls
	(3)	MET 31300 – Fluid Mechanics
	(3)	MET 32000 – Thermodynamics
	(3)	MET 34600 - (Advanced Materials in Manufacturing
TSAP	(3)	ENGT 18000—Engineering Technology Foundations
TSAP	(1)	ENGT 18100—Engineering Technology Applications

MET Selectives – (15 credits, included in required major credit total)

	(3)	MET Elective or approved Focus Area elective
	(3)	Mechanics Selective
	(3)	MET Capstone Selective I
	(3)	MET Capstone Selective II
	(3)	Technical Selective or approved Focus Area Selective

Other Departmental/Program Course Requirements (64 credits)

TSAP	(3)	COM 11400 - Fundamentals of Speech Communication *(satisfies Oral Communication for core)*
	(3)	COM 32000 - Small Group Discussion
	(3)	ENGL 42100 – Technical Writing
	(3)	IET 45100 or TLI 33400 – engineering economics
TSAP	(3)	MA 16010 - Applied Calculus I *(satisfies Quantitative Reasoning for core)*
TSAP	(3)	MA 16020 - Applied Calculus II
TSAP	(3)	ECET 22400 – Electronics Systems
TSAP	(3)	CHM 11100 – General Chemistry
TSAP	(4)	PHYS 22000 - General Physics *(satisfies Science for core)*
	(4)	PHYS 22100 - General Physics II *(satisfies Science for core)*
	(3)	STAT 30100 – Statistical Methods
TSAP	(3)	TECH 12000 - Design Thinking in Technology *(satisfies Information Literacy* and *Science, Technology & Society for core)*
TSAP	(3)	Freshman Composition Selective (choose from ENGL 10600 or ENGL 10800) *(satisfies Written Communication for core)*
	(3)	Economics/Finance Selective (choose from ECON 21000, ECON 25100, ECON 25200, CSR 34200, ENTR 20000 and 31000)
TSAP	(3)	General Education Human Cultures: Humanities Selective *(satisfies Human Cultures Humanities for core)*
TSAP	(3)	General Education Human Cultures: Behavior/Social Sciences *satisfies Human Cultures: Behavioral Sciences for core)*
TSAP	(2)	Computer Graphics Technology Selective (choose from CGT 11000, CGT 16300, IT 10500)
	(3)	Programming Selective (choose from CNIT 10500, CNIT 15501, CNIT 17500, CS 15800 or CS 15900, MET 16400)
	(3)	Global/Professional Selective
	(3)	TECH/MGMT Selective
	(0)	Beyond the Classroom Requirement

University Core Requirements

Human Cultures: Behavioral/Social Sciences	☐	*Science*	☐
Human Cultures: Humanities	☐	*Science*	☐
Information Literacy	☐	*Science, Technology & Society*	☐
Oral Communication	☐	*Written Communication*	☐
Quantitative Reasoning	☐		

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The student is ultimately responsible for knowing and completing all degree requirements.

myPurduPlan is the knowledge source for specific requirements and completion.

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Updated 4/18/2016

PURDUE UNIVERSITY

School of Engineering Technology
Major: Mechanical Engineering Technology (MET)
MET-BS Suggested Arrangement of Courses

Catalog Term: _____
For Catalog Terms beginning in Fall 2016
Major Code: METC Program Code: PIMET-BS

Accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org

Fall 1st Year	CR	GR	Sem	Fulfilled by	**Spring 1st Year**	CR	GR	Sem	Fulfilled by
Math 221 Calculus for Technology I	3				METC 107 Mechanical Design and Documentation.	2			
COMM 101 fundamentals of Public speaking	3				METC 111 Applied Statics	3			
MET 14400 Materials and Processes II	3				METC 143 Materials & Processes	3			
ENGT 18000 ENG Tech Foundations*	3				MATH 222 calculus for Technology II	3			
ENGT 18100 ENG Tech Applications*	1				ENGL 111 English Composition	3			
METC 279 Portfolio and Prof. Prep*	3								
TOTAL CREDIT HOURS	**16**				**TOTAL CREDIT HOURS**	**14**			

Fall 2nd Year	CR	GR	Sem	Fulfilled by	**Spring 2nd Year**	CR	GR	Sem	Fulfilled by
EECT 111 Intro to Circuit Analysis	3				MET 21300 Dynamics (Pre-reqs: MA 16020 and MET 11100)	3			
Programming Selective	3				PHIL 102 Introduction to Ethics	3			
MET 21100 Strength of Materials (Pre-reqs: MET 11100 and MA 16010)	4				METC 220 Cad for Mechanical Design	3			
PHYS 101 Physics I	4				METC 237 System Automation and Control	3			
					PHYS 22100 General Physics II* (Prereq: PHYS 22000)	4			
TOTAL CREDIT HOURS	**14**				**TOTAL CREDIT HOURS**	**16**			

Fall 3rd Year	CR	GR	Sem	Fulfilled by	**Spring 3rd Year**	CR	GR	Sem	Fulfilled by
CHEM 111 Chemistry I	3				Economics/Finance Selective	3			
METC 230 Fluid Power	3				MET 32000 Thermodynamics (Pre-reqs: MA 16010 and MET 22000)	3			
MET 22000 Heat Power (Pre-reqs: PHYS 22000, MA 16010 and ENGT 18000)	3				MET 34600 Advanced Materials in Mfg) (Pre-reqs: MET 21100, MET 24500 and CHM 11100)	3			
MET 24500 Manufacturing Systems (Pre-reqs: (MET 14300 or MET 14400) and CGT Selective)	3				Mechanics Selective	3			
STAT 30100 Elementary Stat Methods	3				Global/Professional Selective	3			
TOTAL CREDIT HOURS	**15**				**TOTAL CREDIT HOURS**	**15**			

Fall 4th Year	CR	GR	Sem	Fulfilled by	**Spring 4th Year**	CR	GR	Sem	Fulfilled by
IET 45100 or TLI 33400 engineering economics	3				MET Capstone Selective II (Pre-reqs: Capstone Selective I)	3			
MET Capstone Selective I	3				MET Elective or approved Focus Area elective	3			
MET 31300 Fluid Mechanics (Pre-reqs: MA 16020, MET 22000 and MET 23000)	3				Technical Selective or approved Focus Area elective	3			
TECH/MGMT Selective	3				Behavioral Social Science Selective	3			
ENGL 42100 Technical Writing (Pre-req: ENGL 10600)	3				COM 32000 Small Group Discussion	3			
TOTAL CREDIT HOURS	**15**				**TOTAL CREDIT HOURS**	**15**			

Refer to the 2016 MET supplemental Instruction form for optional courses to complete selectives and pre-requisites.

1. 120 semester credits and a 2.0 Graduation GPA are required for the Bachelor of Science degree.
2. Students must earn a "D-" or better in all courses unless otherwise noted.
3. Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.
4. 32 credit hours of 300-level or higher courses must be completed at Purdue University.
5. Complete a Beyond the Classroom Requirement. ☐

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The student is ultimately responsible for knowing and completing all degree requirements.
myPurduePlan is knowledge source for specific requirements and completion.

********** *Updated 4/1/2016*

PURDUE UNIVERSITY

School of Engineering Technology
Major: Mechanical Engineering Technology (MET)
MET-BS Suggested Arrangement of Courses for TSAP transfers

For Catalog Terms beginning in Fall 2016
Major Code: METC Program Code: PIMET-BS

Accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org

Fall 3rd Year	CR	GR	Sem	Fulfilled by	**Spring 3rd Year**	CR	GR	Sem	Fulfilled by
MET 14400 Materials & Processes II	3				Economics/Finance Selective	3			
Programming Selective	3				MET 22000 Heat/Power (Pre-reqs: MA 16010)	3			
MET 21100 Strength of Materials (Pre-reqs: MET 11100 and MA 16010)	4				MET 34600 Advanced Materials in Mfg) (Pre-reqs: MET 21100, MET 24500 and CHM 11100)	3			
MET 24500 Manufacturing Systems (Pre-reqs: (MET 14300 or MET 14400) and CGT Selective)	3				MET 21300 Dynamics (Pre-reqs: MA 16020 and MET 11100)	3			
PHYS 22100 General Physics II* (Prereq: PHYS 22000)	4				STAT 30100 Elementary Stat Methods	3			
					Global/Professional Selective	3			
TOTAL CREDIT HOURS	**17**				**TOTAL CREDIT HOURS**	**18**			

Fall 4th Year	CR	GR	Sem	Fulfilled by	**Spring 4th Year**	CR	GR	Sem	Fulfilled by
IET 45100 or TLI 33400 engineering economics	3				MET Capstone Selective II (Pre-reqs: Capstone Selective I)	3			
MET Capstone Selective I	3				MET Elective or approved Focus Area elective	3			
Mechanics Selective	3				Technical Selective or approved Focus Area elective	3			
MET 32000 Thermodynamics (Pre-reqs: MA 16010 and MET 22000)	3				MET 31300 Fluid Mechanics (Pre-reqs: MA 16020, MET 22000 and MET 23000)	3			
TECH/MGMT Selective	3				COM 32000 Small Group Discussion	3			
ENGL 42100 Technical Writing (Pre-req: ENGL 10600)	3				Beyond the Classroom Requirement	0			
TOTAL CREDIT HOURS	**18**				**TOTAL CREDIT HOURS**	**15**			

Refer to the 2016 MET supplemental Instruction form for optional courses to complete selectives and pre-requisites.

1. 68 semester credits beyond the TSAP for MET and a 2.0 Graduation GPA are required for the Bachelor of Science degree.
2. Students must earn a "D-" or better in all courses unless otherwise noted.
3. Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.
4. 32 credit hours of 300-level or higher courses must be completed at Purdue University.
5. Complete a Beyond the Classroom Requirement. ☐

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********** *Updated 7/5/2016*

*** Purdue's ENGT 18000, ENGT 18100, and TECH 12000 requirements are met by a combination of IvyTech MA 136, MA 137, METC 279, and excess credit from EECT 111.**

Color Code:
Yellow = course met through TSAP (see page 1)
Teal = course that could be taken at IvyTech as long as student has 32 credits at the 3xxxx level or higher at Purdue AND/OR the course is consistently available at Purdue in the summer