PURDUE UNIVERSITY

Industrial Engineering Technology

Purdue Polytechnic Anderson

PITLI-IET-BS / Major: TIET 201710
120 Credits for graduation

Name: _____ **PUID:** _____ **Date:** _____

Major Required Courses (74 credits)

_____ (3) TLI 11100 Introduction to Manufacturing and Supply Chain Systems *or IT 10400 Industrial Organization*
_____ (3) TLI 11200 Foundations of Organizational Leadership *or OLS 25200 Human Behaviors in Organizations*
_____ (3) TLI 21300 Project Management *or TECH 32000 Technology and the Organization*
_____ (3) TLI 21400 Introduction to Supply Chain Management Technology *or IT 23000 Industrial Supply Chain Management*
_____ (3) TLI 31300 Technology Innovation & Integration: Bar Codes to Biometrics *or IT 34500 Auto Identification & Data Capstone*
_____ (3) TLI 31400 Leading Innovation in Organizations
_____ (3) TLI 31500 New Product Development or TLI 36700 Design & Innovation I
_____ (3) TLI 31600 Statistical Quality Control *or IT 34200 Intro to Statistical Quality*
_____ (3) TLI 41400 Financial Analysis for Technology Systems *or IT 43200 Financial Transaction in Distribution*

_____ (3) TLI 23500 Introduction to Lean & Sustainable System *or IT 21400 Intro to Lean Manufacturing*
_____ (3) TLI 33400 Economic Analysis for Technology System *or IT 45000 Production Cost Analysis*
_____ (3) TLI 33520 Human Factors for Technology System *or IT 28100/IT 35100 Industrial Safety*
_____ (3) TLI 33620 Total Productive Maintenance *or IT 38100 Total Productive Maintenance*
_____ (3) TLI 43530 Operations Planning & Management *or IT 44200 Production Planning*
_____ (3) TLI 43640 Lean Six Sigma *or IT 44600 Six Sigma Quality*
_____ (3) TLI 45700 Technology Policy & Law *or OLS 34600 Critical Thinking & Ethics*
_____ (3) MET 14300 Materials & Processes I or MET 14400 Materials & Processes II
_____ (3) MET 24500 Manufacturing Systems
_____ (3) CGT 11000 Technical Graphics Communication
_____ (3) TLI Selective[7] (See Supplemental Information)
_____ (3) TLI 48390 IET Capstone I
_____ (3) TLI 48395 IET Capstone II
_____ (0) Globalization Experience [10] (See Supplemental Information)
_____ (0) Internship Experience[11] (See Supplemental Information)

____ (TE[8]) _____ ____ (TE[8]) _____ ____ (TE[8] 2cr) _____

Other Departmental Courses (37 credits)

_____ (3) COM 11400 Fundamentals of Speech Communication ***(satisfies Oral Communication for core)***
_____ (3) MA 15555 Quantitative Reasoning or MA 15800 Precalculus ***(satisfies Quantitative Reasoning for core)***
_____ (3) PSY 12000 Elementary Psychology or SOC 10000 Introductory Sociology ***(satisfies Human Cultures Behavioral/Social Science for core)***
_____ (3) TECH 12000 Design Thinking in Technology ***(satisfies Science, Technology & Society and Information Literacy for core)***
_____ (3) Humanities Selective[1] ***(satisfies Human Cultures Humanities for core)*** (See Supplemental Information)
_____ (3) Science Selective[2] ***(satisfies Science for core)*** (See Supplemental Information)
_____ (4) PHYS 21800 General Physics or PHYS 22000 General Physics ***(satisfies Science for core)*** (See Supplemental Information)
_____ (3) Written Communication Selective[3] ***(satisfies Written Communication for core)*** (See Supplemental Information)

_____ (3) ECON 21000 Principles of Economics or AGEC 21700 Economics or ECON 25100 Microeconomics or ECON 25200 Macroeconomics
_____ (3) Mathematics/Statistics Selective[4] (See Supplemental Information)
_____ (3) History of Science and Technology Selective[5] (See Supplemental Information)
_____ (3) Advanced Communication Selective[6] (See Supplemental Information)

Electives[9] (9 credits) (See Supplemental Information)

____ (3) _____ ____ (3) _____ ____ (3) _____

University Core Requirements (http://www.purdue.edu/provost/initiatives/curriculum/course.html)

Human Cultures Humanities		*Science, Technology & Society Selective*	**TECH 12000**
Human Cultures Behavioral/Social Science	**PSY 12000/SOC 10000**	*Written Communication*	**ENGL 10600/10800**
Information Literacy	**TECH 12000**	*Oral Communication*	**COM 11400**
Science Selective	**PHYS 21800**	*Quantitative Reasoning*	**MA 15800/15555**
Science Selective			

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

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4/1/2016 (effective Fall 2016)

Industrial Engineering Technology

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
3	TLI 11100 Intro to Manufacturing & Supply Chain Systems		3	TLI 11200 Foundation of Org Leadership	
3	MA 15555 Quantitative Reasoning or MA 15800 Precalculus*		3	Mathematics/Statistics Selective[4]	
3	TECH 12000 Design Thinking in Technology *		3/4	Written Communication Selective*[3]	
3	COM 11400 Fundamentals of Speech Communication *		3	MET 14300 or MET 14400 Materials & Process I or II	
3	Humanities Selective*[1]		4	PHYS 21800* General Physics I	
15			**16/17**		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	TLI 21300 Project Management		3	TLI 31300 Tech Innovations: Biometrics	
3	TLI 21400 Intro to Supply Chain		3	MET 24500 Manufacturing Systems	MET 14300 or MET 14400 and CGT 11000
3	TLI 23500 Intro to Lean & Sustainable Systems		3	PSY 12000 Elementary Psychology or SOC 10000 Intro Sociology*	
3	CGT 11000 Technical Graphic Communication		3	ECON 21000 Principles of Economics	
3	Science Selective*[2]		3	History of Science & Tech Selective[5]	
15			**15**		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	TLI 31400 Leading Innovation in Org		3	TLI 31500 Innovative Product Dev & Test or TLI 36700 Design & Innovation I	TLI 11200 for TLI 31500
3	TLI 31600 Statistical Quality Control	Math/Stat selective	3	TLI 33620 Total Productive Maintenance	PHYS 21800 & TLI 316000 or STAT 30100
3	TLI 33400 Economic Analysis for Tech Systems	Math/Stat selective	3	TLI 43530 Operations Plan & MGMT	Math/Stat selective
3	TLI 33520 Human Factor for Tech Systems		3	TLI 43640 Lean Six Sigma	TLI 31600
3	TLI Selective[7]		3	Technical Elective[9]	
15			**15**		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	TLI 41400 Financial Analysis for Technology Systems	TLI 33400 min 'C' or MGMT 20010 min 'C'	3	TLI 48395 IET Capstone II	TLI 48390 min 'C'
3	TLI 45700 Technology Policy & Law		3	Technical Elective[8]	
3	TLI 48390 IET Capstone I	MET 24500 and TLI 43530	2	Technical Elective[8]	
3	Advanced Communication Selective[6]		3	Elective[9]	
3	Elective[9]		3	Elective[9]	
0	Internship Experience[11]		0	Globalization Experience[10]	
16			**14**		

***Fulfills University Core**

1) 120 credits listed above are required for the IET Bachelor of Science degree.

2) 2.0 Graduation GPA required for Bachelor of Science degree.

3) 32 credits of upper division courses (30000 level or higher) must be taken at Purdue Polytechnic Anderson.

4) ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, I AND IF).

See next page for all supplemental Information

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IET Supplemental Information

All prerequisites must be met

[1]Humanities Foundational Selective (3 credits)

See approved Humanities list at: http://www.purdue.edu/provost/initiatives/curriculum/course.html

HIST 15100 American History to 1877
HIST 15200 US From 1877
MUS 25000 Music Appreciation
PHIL 11000 Intro to Philosophy
PHIL 11100 Ethics

[2]Science Selective (3 credits)

Must be a lab from the approved UCC Science list: http://www.purdue.edu/provost/initiatives/curriculum/course.html

CHM 11100 General Chemistry
PHYS 21900 General Physics II

[3]Written Communication Foundation Selective (minimum 3 credits)

ENGL 10600 First-Year Composition
ENGL 10800 Accelerated First-Year Composition

[4]Mathematics/Statistics Selective (3 credits)

MA 16010 Applied Calculus I
MA 16100 Plane Analytic Geometry & Calculus I
MA 16200 Plane Analytic Geometry & Calculus II
MA 16500 Analytic Geometry & Calculus I
MA 16600 Analytic Geometry & Calculus II
STAT 22500 Intro Probability Models
STAT 30100 Elementary Statistics Methods *(recommended)

[5]History of Science and Technology Selective (3 credits)

HIST 15200 US Since 1877
HIST 33300 Science and Technology in Western Civilization I
HIST 33400 Science and Technology in Western Civilization II
HIST 35000 Science and Technology in the Twentieth Century World
HIST 38001 History of United States Agriculture
HIST 38400 History of Aviation
HIST 38700 History of the Space Age
HIST 49400 Science and Technology in American Civilization
TLI 29900 Technology and Culture Thru HIstory

[6]Advanced Communication Selective (3 credits)

COM 31400 Advanced Presentational Speaking
COM 31500 Speech Communication of Technical Information
COM 31800 Principles of Persuasion
COM 32000 Small Group Communication
COM 32400 Intro to Organizational Communication
COM 32500 Interviewing Principles and Practice
COM 41500 Discussion of Technical Problems
ENGL 30400 Advanced Composition
ENGL 30600 Intro Professional Writing
ENGL 42000 Business Writing
ENGL 42100 Technical Writing

[7]TLI Selective (3 Credits)

Any TLI course offered at Anderson not already required
ENTR 20000 Intro to Entrepreneurship and Innovation
ENTR 31000 Marketing and Management for New Ventures
ENTR 48000 Entrepreneurship Capstone

[8]Technical Elective (8 credits)

Any non-required Purdue Polytechnic or Engineering (ENGR) course offered at Anderson not already required on the plan of study

[9]Free Electives (9 credits)

Any non-remedial course offered for credit at Anderson not already required/being used on the plan of study

[10]Globalization Experience (0 credits)

Choose one of the four options below and then submit the required Globalization Reflection paper about your choice..

1. Complete a Purdue Approved Study Abroad experience
2. Complete an International Internship or Co-op
3. Complete three of the four PUPIL Badges listed below (http://www.purdue.edu/cie/learning/global/pupil.html)
    a. Intercultural Openness
    b. Cultural Self-Awareness
    c. Cultural Worldview
    d. Intercultural Empathy
4. Complete six credits from the following courses:

OLS 45600 Leadership in a Global Environment
TLI 35600 Global Technology Leadership
TECH 33000 Technology & the Global Society
AGEC 25000 Economics Geography of World Food
AGEC 34000 International Economic Development (pre-req AGEC 217/ECON 210)
ANTH 34000 Global Perspectives on Health
COM 30300 Intercultural Communication
COM 22400 Communicating in a Global Workplace
EPICS – Global Design Teams
HIST 33400 Sci & Tech in West Civilization II
POL 13000 Intro to International Relations
POL 23100 Intro to US Foreign Policy
POL 23500 Rich and Poor Nations
POL 23700 Modern Weapons & International Relations
POL 32700 Green Global Politics
POL 34500 West European Democracies in the Post-Industrial Era
SOC 33800 Global Social Movements
SOC 33900 Introduction to Sociology of Developing Nations
Any foreign language 200 or higher (201, 202, 301, 302, 401, 402)

[11]Internship Experience (0 credits)

Students will complete the IET Internship Experience Badge, please see your academic advisor for further details.

Bold print indicates course offered at Purdue Polytechnic Anderson.