PURDUE UNIVERSITY

Name: _____ PUID: _____ Date: _____

Technology Leadership & Innovation Core (27 credits)

- _____ (3) TLI 11100 Gateway to Technology Leadership and Innovation *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 Innovative Product Development and Testing
- _____ (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*

Industrial Engineering Technology Core (39 credits)

- _____ (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 33610 Risk Analysis and Assessment *or IT 38500 Industrial Ergonomics*
- _____ (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 43540 Facilities Panning *or IT 48300 Facility Design for Lean Manufacturing*
- _____ (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) TLI Selective[7] (See Supplemental Information)
- _____ (3) TLI Selective[7] (See Supplemental Information)
- _____ (3) Capstone Selective[10] (See Supplemental Information)
- _____ (0) Globalization Portfolio[11]

Foundational Course Requirements (25 credits)

- _____ (3) COM 11400 Fundamentals of Speech Communication *(satisfies Oral Communication for core)*
- _____ (3) MA 15800 Precalculus or MA 15300 Algebra & Trig I and MA 15400 Algebra & Trig II *(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)

General Education (12 credits)

- _____ (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)

Technical Elective[8] (9credits) and Free Electives[9] (8 credits) (See Supplemental Information)

- _____ (FE) _____ _____ (FE) _____ _____ (FE1cr.) _____ _____ (FE1cr.) _____
- _____ (TE) _____ _____ (TE) _____ _____ (TE) _____

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 15800/15300**
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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Industrial Engineering Technology

Suggested Arrangement of Courses:

Credits	**Fall 1st Year**	Prerequisite	Credits	**Spring 1st Year**	**Prerequisite**
3	TLI 11100 Gateway to TLI		3	TLI 11200 Foundation of Org Leadership	
3	MA 15800*		3	Mathematics/Statistics Selective[4]	
3	TECH 12000*		3/4	Written Communication Selective*[3]	
3	COM 11400*		3	MET 14300 or MET 14400	
3	Humanities Selective*[1]		4	PHYS 21800*	
15			**16/17**		

Credits	**Fall 2nd Year**	Prerequisite	Credits	**Spring 2nd Year**	**Prerequisite**
3	ECON 21000		3	TLI 31300 Tech Innovations: Biometrics	
3	TLI 21400 Intro to Supply Chain		3	Technical Elective[9]	
3	TLI 21300 Project Management		3	PSY 12000 or SOC 10000*	
3	TLI 23500 Intro to Lean & Sustainable Systems		3	History of Science & Tech Selective[5]	
3	Science Selective*[2]		3	TLI Selective[7]	
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	
3	TLI 31600 Statistical Quality Control	Math/Stat selective	3	TLI 33610 Risk Analysis & Assessment	TLI 31600 or STAT 30100
3	TLI 33400 Economic Analysis for Tech Systems	Math/Stat selective	3	TLI 33620 Total Productive Maintenance	PHYS 21800 & TLI 316000 or STAT 30100
3	TLI 33520 Human Factor for Tech Systems		3	TLI 43640 Lean Six Sigma	TLI 23500 & TLI 31600
3	TLI Selective[7]		3	TLI 43530 Operations Plan & MGMT	Math/Stat selective
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	Capstone Selective[10]	
3	TLI 45700 Technology Policy & Law		3	Technical Elective[8]	
3	TLI 43540 Facilities Plan & Materials Handling	MET 14300 or MET 14400 and TLI 43530	3	Technical Elective[8]	
3	Advanced Communication Selective[6]		3	Free Elective[9]	
3	Free Elective[9]		1	Free Elective[9]	
1	Free Elective[9]		0	Globalization Portfolio[11]	
16			**13**		

*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 University, West Lafayette.
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

[2]Science Selective (3 credits)
Must be a lab from the approved UCC Science list: http://www.purdue.edu/provost/initiatives/curriculum/course.html

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

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

HIST 33300 Science and Technology in Western Civilization I	HIST 35000 Science and Technology in the Twentieth Century World	HIST 38700 History of the Space Age
HIST 33400 Science and Technology in Western Civilization II	HIST 38001 History of United States Agriculture	HIST 49400 Science and Technology in American Civilization
	HIST 38400 History of Aviation	

[6]Advanced Communication Selective (3 credits)

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

[7]TLI Selective (6 Credits)

Any TLI course 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 (9 credits)
Any non-required Purdue Polytechnic course not already required on the plan of study

[9]Free Electives (8 credits)
Any non-remedial course offered for credit at the University not already required/being used on the plan of study

[10]Capstone Selective (3 credits)
TLI 48390 Tech Syst Capstone I – Design and TLI 48395 Tech Syst Capstone II – Eval
TLI 48800 TLI Capstone

[11]Globalization Portfolio (0 credits)