

Name: \_\_\_\_\_ PUID: \_\_\_\_\_ Date: \_\_\_\_\_

**Major Required Courses (74 credits)**

- \_\_\_\_\_ (3) TLI 11100 Introduction to Manufacturing and Supply Chain Systems or IT 10400 Industrial Organizations
- \_\_\_\_\_ (3) TLI 11200 Foundations of Organizational Leadership or OLS 25200 Human Behavior 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 Capture
- \_\_\_\_\_ (3) TLI 31400 Leading Innovation in Organizations
- \_\_\_\_\_ (3) TLI 31500 Innovative Product Development and Testing 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 Systems or IT 21400 Intro to Lean Manufacturing
- \_\_\_\_\_ (3) TLI 33400 Economic Analysis for Technology Systems or IT 45000 Production Cost Analysis
- \_\_\_\_\_ (3) TLI 33520 Human Factors for Technology Systems 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 (See Supplemental Information)
- \_\_\_\_\_ (3) TLI 48390 IET Capstone I
- \_\_\_\_\_ (3) TLI 48395 IET Capstone II
- \_\_\_\_\_ (0) Globalization Experience (See Supplemental Information)
- \_\_\_\_\_ (0) Internship Experience (See Supplemental Information)

\_\_\_\_\_ (TE) \_\_\_\_\_ (TE) \_\_\_\_\_ (TE) (2 cr)

**Other Departmental Courses (37 credits)**

- \_\_\_\_\_ (3) COM 11400 - (\*SPCH-S 121 – Public Speaking) - 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 (\*PSY 103) Elementary Psy or SOC 10000 (\*SOC-S 161) Intro 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 (*satisfies Human Cultures Humanities for core*) (See Supplemental Information)
- \_\_\_\_\_ (3) Science Selective (*satisfies Science for core*) (See Supplemental Information)
- \_\_\_\_\_ (4) PHYS 21800 General Physics or PHYS 22000 General Physics (\*PHYS-P 221 - Physics I) (*satisfies Science for core*)
- \_\_\_\_\_ (3) Written Communication Selective (*satisfies Written Communication for core*) (See Supplemental Information)
- \_\_\_\_\_ (3) ECON 21000 (\*ECON-E 103 OR 104) Principles of Economics or AGE2 21700 Economics or ECON 25100 Microeconomics or ECON 25200 Macroeconomics
- \_\_\_\_\_ (3) Mathematics/Statistics Selective(See Supplemental Information)
- \_\_\_\_\_ (3) History of Science and Technology Selective (See Supplemental Information)
- \_\_\_\_\_ (3) Advanced Communication Selective (See Supplemental Information)

**Free Electives (9 credits)** (See Supplemental Information)

\_\_\_\_\_ (FE) \_\_\_\_\_ (FE) \_\_\_\_\_ (FE)

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

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	TECH 12000
Human Cultures Behavioral/Social Science	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	TECH 12000	Oral Communication	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	MA 15800
Science Selective	<input type="checkbox"/>	_____			

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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

## Industrial Engineering Technology

### Suggested Arrangement of Courses:

Fall 1 <sup>st</sup> Year	CR	GR	Sem	Fulfilled by	Spring 1 <sup>st</sup> Year	CR	GR	Sem	Fulfilled by
TLI 11100 Intro to Manufacturing and Supply Chain Systems	3				TLI 11200 Foundations of Org Leadership	3			
MA 15555 Quantitative Reasoning or MA 15800 Precalculus - Functions & Trig*	3				Mathematics/Statistics Selective	3			
TECH 12000 Design Thinking in Tech.*	3				COM 11400 Fundamentals of Speech Communication* - SPCH-S 121 (IUSB)	3			
Written Communication Selective* – ENG-W 131 (IUSB)	3				MET 14300 or MET 14400 Materials & Processes I or II	3			
CGT 11000 Technical Graphic Communication	3				PHYS 21800 General Physics* - PHYS-P 221 or 20100 (IUSB)	5			
<b>Total Credit Hours</b>	<b>15</b>				<b>Total Credit Hours</b>	<b>17</b>			
Fall 2 <sup>nd</sup> Year	CR	GR	Sem	Fulfilled by	Spring 2 <sup>nd</sup> Year	CR	GR	Sem	Fulfilled by
TLI 21300 Project Management	3				TLI 31300 Tech Innovation: Biometrics	3			
TLI 21400 Intro Supply Chain MGMT Tech	3				Science Selective*	3			
TLI 23500 Intro to Lean & Sustainable Systems	3				PSY 12000 or SOC 10000* - PSY-P 103 or SOC-S 161 (IUSB)	3			
Humanities Selective*	3				ECON 210 Principles of Economics or AGECE 21700 or ECON-E 103 Micro Or ECON-E 104 Macro (IUSB)	3			
MET 24500 Manufacturing Systems	3				History of Science & Tech Selective	3			
<b>Total Credit Hours</b>	<b>15</b>				<b>Total Credit Hours</b>	<b>15</b>			
Fall 3 <sup>rd</sup> Year	CR	GR	Sem	Fulfilled by	Spring 3 <sup>rd</sup> Year	CR	GR	Sem	Fulfilled by
TLI 31400 Leading Innovation in Org	3				TLI 31500 Innovative Product Dev & Test or TLI 36700 Design & Innovation I	3			
TLI 31600 Statistical Quality Control (Prerequisite: Math/Stat Selective)	3				TLI 33620 Total Production Maintenance (Prerequisites: Phys-P 221 & TLI 31600 or Math-K 310)	3			
TLI 33400 Economic Analysis for Tech Systems (Prerequisites: Math/Stat Sel)	3				TLI 43530 Operations Plan & MGMT (Prerequisites: Math/Stat selective)	3			
TLI 33520 Human Factor for Tech Systems	3				TLI 43640 Lean Six Sigma (Prerequisites: TLI 23500 and TLI 31600)	3			
TLI Selective	3				Technical Elective	3			
<b>Total Credit Hours</b>	<b>15</b>				<b>Total Credit Hours</b>	<b>15</b>			
Fall 4 <sup>th</sup> Year	CR	GR	Sem	Fulfilled by	Spring 4 <sup>th</sup> Year	CR	GR	Sem	Fulfilled by
TLI 41400 Financial Analysis for Tech Systems (Prerequisites: TLI 33400 min 'C' OR MGMT 20010 min 'C')	3				TLI 48395 IET Capstone II	3			
TLI 45700 Technology Policy & Law	3				Technical Elective	3			
TLI 48390 IET Capstone I	3				Technical Elective	3			
Advanced Communication Selective	3				Free Elective	3			
Free Elective	3				Free Elective	3			
Internship Experience	0				Globalization Experience	0			
<b>Total Credit Hours</b>	<b>15</b>				<b>Total Credit Hours</b>	<b>15</b>			

\*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 the Purdue University location conferring the degree.
- 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

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

# IET Supplemental Information

All prerequisites must be met

**BOLD** indicates courses offered at the South Bend location.

\* Indicates approved IUSB course for South Bend location.

## Humanities Selective (3 credits)

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

Students attending the South Bend location can go to the following link to review how IU courses transfer to Purdue University to meet University Core Course Requirements:

<http://www.purdue.edu/provost/initiatives/curriculum/documents/Retro%20and%20Transfer%20Credit%20Course%20list%205-27-14.pdf>

\***FINA-F 100 Fundamentals of Studio Drawing**

\***HIST-H 105 American History I**

\***HIST-H 106 American History II**

\***HIST-H 113 History of Western Civilization 1**

\***HIST-H 114 History of Western Civilization 2**

\***MUS-M 17400 Music for the Listener**

\***PHIL-P 110 Introduction to Philosophy**

\***PHIL-P 140 Introduction to Ethics**

## Written Communication Selective (minimum 3 credits)

ENGL 10600 First-Year Composition

ENGL 10800 Accelerated First-Year Composition

\***ENGL-W 131 Reading, Writing & Inquiry**

## Mathematics/Statistics Selective (3 credits)

See approved UCC Quantitative Reasoning list at: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

### **MA 16010 Applied Calculus**

MA 16100 Plane Analytic Geometry & Calculus I

MA 16200 Plane Analytic Geometry & Calculus II

MA 16600 Analytic Geometry & Calculus II

STAT 22500 Intro Probability Models

STAT 30100 Elem Statistics Methods or Math-K 310 Statistical Techniques (*recommended*)

## Science Selective (3 – 5 credits)

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

Students attending the South Bend location can go to the following link to review how IU courses transfer to Purdue University to meet University Core Course Requirements:

<http://www.purdue.edu/provost/initiatives/curriculum/documents/Retro%20and%20Transfer%20Credit%20Course%20list%205-27-14.pdf>

\***BIOL-L 100 Humans & the Biological World**

\***CHEM-C 101 & 121 Elementary Chemistry & Lab**

\***PHYS-P 201 General Physics I OR \*PHYS-P 221 Physics I**

\***PHYS-P 202 General Physics 2 OR \*PHYS-P 222 Physics**

## History of Science and Technology Selective (3 credits)

HIST 15200 US Since 1877 or \***HIST-H 106 American History II**

HIST 33300 Science and Technology in Western Civilization I

HIST 33400 Science and Technology in Western Civilization II

HIST 35000 Science & Technology in the 20<sup>th</sup> 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 & Culture through History**

## 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 or \*SPCH-S 229**

**Discussion & Group Methods**

COM 32400 Intro to Organizational Communication

COM 32500 Interviewing Principles and Practice

COM 41500 Discussion of Technical Problems

\***SPCH-S 223 Business & Professional Speaking**

\***SPCH-S 380 Nonverbal Communication**

\***SPCH-S 427 Cross-Cultural Communication**

\***SPCH-S 450 Gender & Communication**

ENGL 30400 Advanced Composition

ENGL 30600 Intro to Professional Writing

ENGL 42000 Business Writing

**ENGL 42100 Technical Writing**

## TLI Selective (3 credits)

**Any TLI course not already required**

ENTR 20000 Intro to Entrepreneurship & Innovation

ENTR 31000 Marketing & Management for New Ventures

ENTR 48000 Entrepreneurship Capstone

## Technical Elective (8 credits)

Any non-required Purdue Polytechnic or Engineering course not already required on the plan of study

## IET Supplemental Information (Cont.)

All prerequisites must be met

**BOLD indicates courses offered at the South Bend location.**

**\* Indicates approved IUSB course for South Bend location.**

### Free Electives (9 credits)

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

### 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 AGECE 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

or **POLS-Y 109 Intro International Relations**

POL 23100 Intro to US Foreign Policy

POL 23500 Rich and Poor Nations

POL 23700 Modern Weapons &

International Relations or **POLS-Y 311**

**Democracy & National Security**

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)

### **Internship Experience (0 credits)**

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