

Name: _____ PUID: _____ Date: _____

Technology Leadership & Innovation Core (27 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 **New Product Development or TECH 22000 Designing Technology for People**
- _____ (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 (39 credits)

- _____ (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 48390 IET Capstone I
- _____ (3) TLI 48395 IET Capstone II
- _____ (3) TLI Selective (See Supplemental Information)
- _____ (0) Globalization Experience (See Supplemental Information)
- _____ (0) Internship Experience (See Supplemental Information)

Foundational Course Requirements (25 credits)

- _____ (3) MA 15555 Quantitative Reasoning or MA 15800 Precalculus (*satisfies Quantitative Reasoning for core*)
- _____ (4) PHYS 21800 General Physics or PHYS 22000 General Physics (*PHYS-P 221 - Physics I) (*satisfies Science for core*)
- _____ (3) Science Selective (*satisfies Science for core*) (See Supplemental Information)
- _____ (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) **Behavioral/Social Science Selective (*satisfies Human Cultures Behavioral/Social Science for core*)**
- _____ (3) **Oral Communications Selective (*satisfies Oral Communication for core*)**
- _____ (3) Written Communication Selective (*satisfies Written Communication for core*) (See Supplemental Information)

General Education (12 credits)

- _____ (3) ECON 21000 (*ECON-E 103 OR 104) Principles of Economics or AGECE 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)

Technical (8 credits) & Free Electives (9 credits) (See Supplemental Information)

_____ (FE) _____ (FE) _____ (FE)
_____ (TE) _____ (TE) _____ (TE) (2 cr)

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"/>	_____			

**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 st Year	CR	GR	Sem	Fulfilled by	Spring 1 st 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				Oral Communication Selective*	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			
Total Credit Hours	15				Total Credit Hours	17			
Fall 2 nd Year	CR	GR	Sem	Fulfilled by	Spring 2 nd 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				Behavioral/Social Science Selective*	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			
Total Credit Hours	15				Total Credit Hours	15			
Fall 3 rd Year	CR	GR	Sem	Fulfilled by	Spring 3 rd Year	CR	GR	Sem	Fulfilled by
TLI 31400 Leading Innovation in Org	3				TLI 31500 Innovative Product Dev & Test Or TECH 22000 Designing Tech for People	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			
Total Credit Hours	15				Total Credit Hours	15			
Fall 4 th Year	CR	GR	Sem	Fulfilled by	Spring 4 th 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			
Total Credit Hours	15				Total Credit Hours	15			

*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 113 History of Western Civilization 1

*PHIL-P 110 Introduction to Philosophy

*HIST-H 105 American History I

*HIST-H 114 History of Western Civilization 2

*PHIL-P 140 Introduction to Ethics

*HIST-H 106 American History II

*MUS-M 17400 Music for the Listener

Behavioral/Social Science Foundational Selective: see <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

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*ECON-E 103 Introduction to Microeconomics

*PSY-P 103 Introduction to Psychology

*ECON-E 104 Introduction to Macroeconomics

*SOC-S 161 Principles of Sociology

*POLS-Y 103 Introduction to American Politics

*SOC-S 163 Social Problems

*POLS-Y 109 Introduction to International Relations

Written Communication Selective (minimum 3 credits)

ENGL 10600 First-Year Composition

ENGL 10800 Accelerated First-Year Composition

*ENG-W 131 Reading, Writing & Inquiry

SCLA 10100 Transformative Texts, Critical Thinking & Comm I: Antiquity to Modernity

Oral Communication Selective (3 credits)

COM 11400 Fundamentals of Speech Communication

*SPCH-S 121 Public Speaking

SCLA 10200 Transformative Texts, Critical Thinking & Comm II: Modern World

Mathematics/Statistics Selective (3 credits)

MA 16010 Applied Calculus I

MA 16500 Analytic Geometry & Calculus I

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

*STAT 30100 Elementary Statistics Methods or *MATH-K 310 (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>

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<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

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

*CHEM-C 101 & 121 Elementary Chemistry & Lab

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

History of Science and Technology Selective (3 credits)

HIST 30305 Kitchens Cooking & Food Mod Amer

HIST 38001 History of United States Agriculture

HIST 31405 Tech & Gender in American History

HIST 38400 History of Aviation

HIST 31505 American Beauty

HIST 38700 History of the Space Age

HIST33000 History of the Brit Empire & Commonwealth, 1783 to 1960

HIST 49400 Science & Society American Civ

HIST 33400 Science & Technology in Western Civilization

POL 42900 Contemporary Political Problems

HIST 35000 Science & Technology in the Twentieth Century World

TLI 29900 Technology & Culture Through History

Advanced Communication Selective (3 credits)

COM 31400 Advanced Presentational Speaking

*SPCH-S 427 Cross-Cultural Communication

COM 31500 Speech Communication of Technical Information

*SPCH-S 450 Gender & Communication

COM 31800 Principles of Persuasion

ENGL 30400 Advanced Composition

COM 32000 Small Group Communication or *SPCH-S 22900

ENGL 30600 Intro to Professional Writing

COM 32400 Intro to Organizational Communication

ENGL 41900 Multimedia Writing

COM 32500 Interviewing Principles and Practice
 COM 41500 Discussion of Technical Problems
COM 43500 Comm & Emerging Technologies
 *SPCH-S 223 Business & Professional Speaking
 *SPCH-S 380 Nonverbal Communication

ENGL 42000 Business Writing
ENGL 42100 Technical Writing
ENGL 42400 Writing for High Tech Industries

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 Purdue Polytechnic Institute or Engineering (ENGR or EPCS) course not already required on the plan of study

Free Elective (9 credits)

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

Internship Experience (0 credits)

Students will complete the IET Internship Experience Badge in one of the following ways:

- Complete an IET-related internship (min 160 hours)
- Complete an industry cooperative experience
- Employment during the academic year related to IET
- Complete an industry-based, undergraduate research experience
- Student-proposed alternative: must be commensurate with the expectations of the IET internship experience

Globalization Experience (0 credits)

Minimum requirements:

1. Complete Intercultural Development Inventory (IDI) Pre and Post Tests
2. Complete Beliefs, Events, and Values Inventory (BEVI) Pre and Post Tests
3. Complete an Intercultural Knowledge and Effectiveness (IKE) component
4. Complete TLI-Approved Global Course, Faculty-Led Study Abroad, International Internship, or International Capstone/Collaborative Project

TLI-Approved Global Courses:

Applies to any student	For students who are not within the demographic of the course
ANSC 381 Leadership for a Diverse workplace ANTH 20500 Human Cultural Diversity ANTH 21200 Culture, Food and Health ANTH 23000 Gender Across Cultures ANTH 34000 Global Perspectives on Health AT 22300 Human Factors for Flight Crews CGT 17208 Human Centered Design & Development Studio COM 22400 Communicating in the Global Workplace COM 32000 Small Group Communication or *SPCH-S 22900 COM 41200 Theories of Human interaction ECET 38001 Global Professional Issues in ET ENGL 41400 Literature & Culture EDPS 31600 Collaborative Leadership: Cross-cultural Stgs HIST 19500: Historical Research & Film! HIST 33805 History of Human Rights HTM 37000 Sustainable Tourism and Responsible Travel HTM 37200: Global Tourism Geography PHIL 43500 Philosophy of Mind POL 23500 Rich and Poor Nations POL 42900 Variable Title: It's a Complex World SOC 10000 Intro to Sociology or *SOC 161 Principles of Sociology SOC 33900 Introduction to Sociology of Developing Nations TECH 33000 Technology and the Global Society WGSS 38000 Gender and Multiculturalism	AAS 27100 Intro to African American Studies ANTH 37900 Native American Cultures ASAM 24000 Intro to Asian American Studies ARAB 28000 Arabic culture COM 38000 Sociolinguistic Study of African American English HDFS 28000 Diversity in Individual and Family Life HIST 36600 Hispanic Heritage of the USA HIST 37600 History of Indiana HIST 37700 History & Culture of Native America HIST 46900 Black Civil Rights Movement HIST 47900 Amer. Represent. of Middle East & North Africa HIST 49900 History of Sexual Regulation in the United States POL 22200 Women, Politics & Public Policy POL 32600 Black Political Participation in America POL 36000 Women and the Law SOC 31000 Racial and Ethnic Diversity WGSS 28200 Intro to LGBT Studies WGSS 38300 Women and Work