

Name: _____ PUID: _____ Date: _____

Technology Leadership & Innovation Core (27 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

Industrial Engineering Technology (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 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 Selective⁷ (See Supplemental Information)
- _____ (3) TLI 48390 IET Capstone I
- _____ (3) TLI 48395 IET Capstone II
- _____ (0) Globalization Experience¹⁰ (See Supplemental Information)
- _____ (0) Internship Experience¹¹ (See Supplemental Information)

Foundational Course Requirements (25 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 Selective¹ (*satisfies Human Cultures Humanities for core*) (See Supplemental Information)
- _____ (3) Science Selective² (*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 Selective³ (*satisfies Written Communication for core*) (See Supplemental Information)

General Education (12 credits)

- _____ (3) ECON 21000 Principles of Economics or AGECE 21700 Economics or ECON 25100 Microeconomics or ECON 25200 Macroeconomics
- _____ (3) Mathematics/Statistics Selective⁴ (See Supplemental Information)
- _____ (3) History of Science and Technology Selective⁵ (See Supplemental Information)
- _____ (3) Advanced Communication Selective⁶ (See Supplemental Information)

Technical Elective⁸ (8 credits) and Free Electives⁹ (9 credits) (See Supplemental Information)

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

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"/>	ENGL 10600/10800
Information Literacy	<input type="checkbox"/>	Oral Communication	<input type="checkbox"/>	COM 11400
Science Selective	<input type="checkbox"/>	Quantitative Reasoning	<input type="checkbox"/>	MA 15800/15555
Science Selective	<input type="checkbox"/>			

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

Industrial Engineering Technology

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	GR	Credits	Spring 1st Year	Prerequisite	GR
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	Written Communication Selective* ³ (ENG-W131)		
3	COM 11400 Fundamentals of Speech Communication * (SPCH-S121)			3	Humanities Selective* ¹		
3	MET 14300 or MET 14400 Materials & Process I or II			3	PSY 12000 Elementary Psychology or SOC 10000 Intro Sociology* (PSY-P103 or SOC-S100)		
15				15			

Credits	Fall 2nd Year	Prerequisite	GR	Credits	Spring 2nd Year	Prerequisite	GR
3	TLI 21300 Project Management			3	Science Selective* ²		
3	TLI 21400 Intro to Supply Chain			3	TLI 31600 Statistical Quality Control	Math/Stat selective	
3	TLI 23500 Intro to Lean & Sustainable Systems			3	TLI Selective ⁷		
3	CGT 11000 Technical Graphic Communication			3	ECON 21000 Principles of Economics (ECON-E201 or E202)		
3	TLI 31300 Tech Innovations: Biometrics			3	History of Science & Tech Selective ⁵		
15				15			

Credits	Fall 3rd Year	Prerequisite	GR	Credits	Spring 3rd Year	Prerequisite	GR
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	MET 24500 Manufacturing Systems	MET 14300 or MET 14400 and CGT 11000		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	
4/5	PHYS 21800* General Physics I (PHYS-P201 or P221)			3	Technical Elective ⁹		
16				15			

Credits	Fall 4th Year	Prerequisite	GR	Credits	Spring 4th Year	Prerequisite	GR
3	TLI 41400 Financial Analysis for Technology Systems	TLI 33400 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	Free Elective ⁹		
3	Free Elective ⁹			3	Free Elective ⁹		
0	Internship Experience ¹¹			0	Globalization Experience ¹⁰		
15				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 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.
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IET Supplemental Information

All prerequisites must be met

Bold indicates courses offered at the Kokomo Campus.
See Student Services Coordinator for course availability.

¹Humanities Foundational Selective (3 credits)

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

ENG-L204, HIST-H105, HIIST-H106, HIST-H113, HIST-H114, PHIL-P100, PHIL-P140, FINA-A101, FINA-A102, MUS-M174, SPAN S100-400, FREN-F100-400, GER-G100-400

²Science Selective (3 credits)

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

AST-A110 (3 cr), BIOL-L270 (3 cr), BIOL-L370 (3 cr), CHEM-C390 (3 cr), GEOL-G400 (3 cr)

³Written Communication Foundation Selective (minimum 3 credits)

ENGL 10600 First-Year Composition

ENGL 10800 Accelerated First-Year Composition

ENG-W131

⁴Mathematics/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

⁵History of Science and Technology Selective (3 credits)

HIST 15200 US Since 1877

HIST 35000 Science and Technology in the
Twentieth Century World

HIST 49400 Science and Technology in American
Civilization

HIST 33300 Science and Technology in Western
Civilization I

HIST 38001 History of United States Agriculture

TLI 29900

HIST 33400 Science and Technology in Western
Civilization II

HIST 38400 History of Aviation

HIST 38700 History of the Space Age

⁶Advanced Communication Selective (3 credits)

COM 31400 Advanced Presentational Speaking

COM 32500 Interviewing Principles and Practice

SPCH-C325

COM 31500 Speech Communication of Technical
Information

COM 41500 Discussion of Technical Problems

SPCH-C380

COM 31800 Principles of Persuasion

ENGL 30400 Advanced Composition

SPCH-S223

COM 32000 Small Group Communication

ENGL 30600 Intro Professional Writing

SPCH-S229

COM 32400 Intro to Organizational
Communication

ENGL 42000 Business Writing

ENG-W231

ENGL 42100 Technical Writing

ENG-W321

SPCH-C321

⁷TLI Selective (3 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

⁸Technical Elective (8 credits)

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

⁹Free Electives (9 credits)

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

¹⁰Globalization 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

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)

¹¹Internship Experience (0 credits)

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