

Technology Leadership & Innovation Core (27 credits)

- _____ (3) TLI 11100 Introduction to Manufacturing and Supply Chain Systems *or IT 10400*
- _____ (3) TLI 11200 Foundations of Organizational Leadership *or OLS 25200*
- _____ (3) TLI 21300 Project Management *or TECH 32000*
- _____ (3) TLI 21400 Introduction to Supply Chain Management Technology *or IT 23000*
- _____ (3) TLI 31300 Technology Innovation & Integration: Bar Codes to Biometrics *or IT 34500*
- _____ (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*
- _____ (3) TLI 41400 Financial Analysis for Technology Systems *or IT 43200*

Industrial Engineering Technology (39 credits)

- _____ (3) TLI 23500 Introduction to Lean & Sustainable System *or IT 21400*
- _____ (3) TLI 33400 Economic Analysis for Technology System *or IT 45000*
- _____ (3) TLI 33520 Human Factors for Technology System *or IT 28100/IT 35100*
- _____ (3) TLI 33620 Total Productive Maintenance *or IT 38100*
- _____ (3) TLI 43530 Operations Planning & Management *or IT 44200*
- _____ (3) TLI 43640 Lean Six Sigma *or IT 44600*
- _____ (3) TLI 45700 Technology Policy & Law *or OLS 34600*
- _____ (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 Selective⁸
- _____ (0) Internship Experience¹⁰
- _____ (0) Globalization Experience¹¹

Foundational Course Requirements (25 credits)

- _____ (3) MA 15555 Quantitative Reasoning *or MA 15800 Precalculus (satisfies Quantitative Reasoning core)*
- _____ (4) PHYS 21800 General Physics *or PHYS 22000 (satisfies Science for core)*
- _____ (3) TECH 12000 Design Thinking in Technology *(satisfies Information Literacy and Science, Technology & Society for core)*
- _____ (3) Behavioral/Social Science Selective¹ *(satisfies Human Cultures: Behavioral Sciences for core)*
- _____ (3) Humanities Selective¹ *(satisfies Human Cultures Humanities for core)*
- _____ (3) Science Selective² *(satisfies Science for core)*
- _____ (3) Oral Communication Selective³ *(satisfies Oral Communication for core)*
- _____ (3) Written Communication Selective⁴ *(satisfies Written Communication for core)*

General Education (12 credits)

- _____ (3) ECON 21000 Principles of Economics *or AGE 21700 or ECON 25100 or ECON 25200*
- _____ (3) Mathematics/Statistics Selective⁵
- _____ (3) History of Science and Technology Selective⁶
- _____ (3) Advanced Communication Selective⁷

Technical Electives⁹ (8 credits) and Free Electives¹⁰ (9 credits)

- _____ (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"/>	PSY 12000/SOC 10000	Written Communication	<input type="checkbox"/>	ENGL 10600/10800
Information Literacy	<input type="checkbox"/>	TECH 12000	Oral Communication	<input type="checkbox"/>	COM 11400
Science Selective	<input type="checkbox"/>	PHYS 21800	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:

Cr	Fall 1st Year	Prerequisite	Gr.	Cr	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 ⁵		
3	TECH 12000 Design Thinking in Technology *			3	Written Communication Selective* ⁴ ENG-W131		
3	Oral Communication Selective * ³ (SPCH-S121)			3	MET 14300 or MET 14400 Materials & Process I or II		
3	CGT 11000 Technical Graphic Communication			3	Science Selective* ²		
15				15			

Cr	Fall 2nd Year	Prerequisite	Gr.	Cr	Spring 2nd Year	Prerequisite	Gr.
3	TLI 21300 Project Management			3	TLI 31300 Tech Innovations: Biometrics		
3	TLI 21400 Intro to Supply Chain			3	TLI Selective ⁸		
3	TLI 23500 Intro to Lean & Sustainable Systems			3	Behavioral/Social Science Selective* ¹		
3	Humanities Selective* ¹			3	ECON 21000 Principles of Economics (ECON-E201 or E202)		
4-5	PHYS 21800* General Physics I (PHYS-P201 or 221)			3	History of Science & Tech Selective ⁶		
16				15			

Cr	Fall 3rd Year	Prerequisite	Gr.	Cr	Spring 3rd Year	Prerequisite	Gr.
3	TLI 31400 Leading Innovation in Org			3	TLI 31500 Innovative Product Dev & Test or TECH 22000 Designing Tech for People	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	MET 24500 Manufacturing Systems	MET 14300 or MET 14400 and CGT 11000		3	Technical Elective ⁹		
15				15			

Cr	Fall 4th Year	Prerequisite	Gr.	Cr	Spring 4th Year	Prerequisite	Gr.
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 ⁹		
3	TLI 48390 IET Capstone I	MET 24500 and TLI 43530		2	Technical Elective ⁹		
3	Advanced Communication Selective ⁷			3	Free Elective ¹⁰		
3	Free Elective ¹⁰			3	Free Elective ¹⁰		
0	Internship Experience ¹¹			0	Globalization Experience ¹²		
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 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

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 Kokomo Campus.
See Student Services Coordinator for course availability.**

¹Behavioral/Social Science and Humanities Selectives (3 credits each)

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

ANTH-A104, ECON-E201, ECON-E202, POLS-Y103, PSY-P103, SOC-S100

²Science Selective (3 credits)

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

ANAT-A215, BIOL-L100, BIOL-L105, CHEM-C101 + C121, CHEM-C102 + C122, CHEM-C105 + C125, CHEM-C106 + C126, GEOL-G100, GEOL-G133, MICR-J200 + J215, PHYS-P201, PHYS-P202, PHYS-P221, PHYS-P222, PLSC-B203, ZOOL-Z315

³Oral Communication Selective

COM 11400 Fundamentals of Speech Comm	SCLA 10200 Transformative Texts, Critical Thinking & Communication II: Modern World	SPCH-S121
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⁴Written Communication Selective (minimum 3 credits)

ENGL 10600 First-Year Composition	SCLA 10100 Transformative Texts, Critical Thinking & Comm I: Antiquity To Modernity	ENG-W131
ENGL 10800 Accelerated First-Year Composition		

⁵Mathematics/Statistics Selective (3 credits)

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

⁶History of Science and Technology Selective (3 credits)

HIST 30305 Kitchens Cooking & Food Mod Amer	HIST 33400 Sci & Society In West Civ II	HIST 49400 Science & Society American Civ
HIST 31405 Tech & Gender In American History	HIST 35000 Sci & Society In 20 th Century World	POL 42900 Contemporary Political Problems
HIST 31505 American Beauty	HIST 38001 History Of United States Agriculture	TLI 29900
HIST 33000 History Of The Brit Empire & Commonwealth, 1783 To 1960	HIST 38400 History Of Aviation	
	HIST 38700 History Of The Space Age	

⁷Advanced Communication Selective (3 credits)

COM 31400 Advanced Presentational Speaking	COM 43500 Comm And Emerging Technologies	SPCH-C321
COM 31500 Speech Comm Of Tech Information	ENGL 30400 Advanced Composition	SPCH-C325
COM 31800 Principles Of Persuasion	ENGL 30600 Intro To Professional Writing	SPCH-C380
COM 32000 Small Group Communication	ENGL 41900 Multimedia Writing	SPCH-S223
COM 32400 Introduction To Org Communication	ENGL 42000 Business Writing	SPCH-S229
COM 32500 Interviewing: Principles And Practice	ENGL 42100 Technical Writing	ENG-W321
COM 41500 Discussion Of Technical Problems	ENGL 42400 Writing For High Tech Industries	

⁸TLI 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

⁹Technical Elective (8 credits)

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

¹⁰Free Electives (9 credits)

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

¹¹Internship 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

12Globalization 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 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 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 HDF5 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 PSY-P103 General Psychology SOC-S100 Introduction to Sociology SPCH-S229 Discussion and Group Methods SPCH-S223 Business and Professional Communication TLI 11200 Foundations of Tech. Leadership