

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 Experience¹¹
- _____ (0) Globalization Experience¹²

Foundational Course Requirements (25 credits)

- _____ (3) MA 15555 Quantitative Reasoning *or MA 15800 Precalculus (satisfies Quantitative Reasoning Selective for 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/Social Science 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:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
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 *		3/4	Written Communication Selective* ⁴	
3	Oral Communication Selective * ³		3	MET 14300 or MET 14400 Materials & Process I or II	
3	Humanities Selective* ¹		4	PHYS 21800* General Physics I	
15			16/17		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	TLI 21300 Project Management		3	TLI 31300 Tech Innovations: Biometrics	
3	TLI 21400 Intro to Supply Chain		3	MET 24500 Manufacturing Systems	MET 14300 or MET 14400 and CGT 11000
3	TLI 23500 Intro to Lean & Sustainable Systems		3	Behavioral/Social Science Selective* ¹	
3	CGT 11000 Technical Graphic Communication		3	ECON 21000 Principles of Economics	
3	Science Selective* ²		3	History of Science & Tech Selective ⁶	
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 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	TLI Selective ⁸		3	Technical Elective ⁹	
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	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.

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IET Supplemental Information

All prerequisites must be met

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

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

Behavioral/Social Science:

PSY 12000 Elementary Psychology

SOC 10000 Introductory Sociology

ECON 21000 Principles of Economics

Human Cultures:

HIST 15100 American History to 1877

HIST 15200 US From 1877

MUS 25000 Music Appreciation

PHIL 11000 Intro to Philosophy

PHIL 11100 Ethics

²Science Selective (3 credits)

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

CHM 11100 General Chemistry

PHYS 21900 General Physics II

³Oral Communication Selective

COM 11400 Fundamentals of Speech Comm

⁴Written Communication Selective (minimum 3 credits)

ENGL 10600 First-Year Composition

SCLA 10100 Transformative Texts, Critical

ENGL 10800 Accelerated First-Year Composition

Thinking & Comm I: Antiquity To Modernity

ENGL10100 English Comp. I

⁵Mathematics/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

⁶History of Science and Technology Selective (3 credits)

HIST 30305 Kitchens Cooking & Food Mod Amer

HIST 33400 Sci & Society In West Civ II

HIST 38400 History Of Aviation

HIST 31405 Tech & Gender In American History

HIST 35000 Sci & Society In 20th Century World

HIST 38700 History Of The Space Age

HIST 31505 American Beauty

HIST 38001 History Of United States Agriculture

HIST 49400 Science & Society American Civ

HIST 33000 History Of The Brit Empire &

TLI 29900 Tech & Culture Through History

POL 42900 Contemporary Political Problems

Commonwealth, 1783 To 1960

⁷Advanced Communication Selective (3 credits)

COM 31400 Advanced Presentational Speaking

COM 32500 Interviewing: Principles And Practice

ENGL 41900 Multimedia Writing

COM 31500 Speech Comm Of Tech Information

COM 41500 Discussion Of Technical Problems

ENGL 42000 Business Writing

COM 31800 Principles Of Persuasion

COM 43500 Comm And Emerging Technologies

ENGL 42100 Technical Writing

COM 32000 Small Group Communication

ENGL 30400 Advanced Composition

ENGL 42400 Writing For High Tech Industries

COM 32400 Introduction To Org Communication

ENGL 30600 Intro To Professional Writing

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)

Consult your advisor and see website for Purdue Polytechnic Institute's Minimum Globalization Requirements.

Courses marked in bold offered at Anderson.