

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

**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 Selective<sup>8</sup>
- \_\_\_\_\_ (0) Internship Experience<sup>10</sup>
- \_\_\_\_\_ (0) Globalization Experience<sup>11</sup>

**Foundational Course Requirements (25 credits)**

- \_\_\_\_\_ (3) MA 15555 Quantitative Reasoning *or MA 15800 Precalculus (satisfies QR for univ core)*
- \_\_\_\_\_ (4) PHYS 21800 General Physics *or PHYS 22000 (satisfies SCI for univ core)*
- \_\_\_\_\_ (3) TECH 12000 Design Thinking in Technology *(satisfies STS and IL for univ core)*
- \_\_\_\_\_ (3) Behavioral/Social Science Selective<sup>1</sup> *(satisfies BSS for univ core)*
- \_\_\_\_\_ (3) Humanities Selective<sup>1</sup> *(satisfies HUM for univ core)*
- \_\_\_\_\_ (3) Science Selective<sup>2</sup> *(satisfies SCI for univ core)*
- \_\_\_\_\_ (3) Oral Communication Selective<sup>3</sup> *(satisfies OC for univ core)*
- \_\_\_\_\_ (3) Written Communication Selective<sup>4</sup> *(satisfies WC for univ core)*

**General Education (12 credits)**

- \_\_\_\_\_ (3) ECON 21000 Principles of Economics *or AGEC 21700 or ECON 25100 or ECON 25200*
- \_\_\_\_\_ (3) Mathematics/Statistics Selective<sup>5</sup>
- \_\_\_\_\_ (3) History of Science and Technology Selective<sup>6</sup>
- \_\_\_\_\_ (3) Advanced Communication Selective<sup>7</sup>

**Technical Electives<sup>9</sup> (8 credits) and Free Electives<sup>10</sup> (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"/>	<b>TECH 12000</b>
Human Cultures Behavioral/Social Science	<input type="checkbox"/>	<b>PSY 12000/SOC 10000</b>	Written Communication	<input type="checkbox"/>	<b>ENGL 10600/10800</b>
Information Literacy	<input type="checkbox"/>	<b>TECH 12000</b>	Oral Communication	<input type="checkbox"/>	<b>COM 11400</b>
Science Selective	<input type="checkbox"/>	<b>PHYS 21800</b>	Quantitative Reasoning	<input type="checkbox"/>	<b>MA 15800/15555</b>
Science Selective	<input type="checkbox"/>	_____			

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 The student is ultimately responsible for knowing and completing all degree requirements.  
 myPurdue Plan is knowledge source for specific requirements and completion  
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## 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 <sup>5</sup>	
3	TECH 12000 Design Thinking in Technology *		3/4	Written Communication Selective* <sup>4</sup>	
3	Oral Communication Selective * <sup>3</sup>		3	MET 14300 or MET 14400 Materials & Process I or II	
3	Humanities Selective* <sup>1</sup>		4	PHYS 21800* General Physics I	
<b>15</b>			<b>16/17</b>		

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* <sup>1</sup>	
3	CGT 11000 Technical Graphic Communication		3	ECON 21000 Principles of Economics	
3	Science Selective* <sup>2</sup>		3	History of Science & Tech Selective <sup>6</sup>	
<b>15</b>			<b>15</b>		

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 <sup>8</sup>		3	Technical Elective <sup>9</sup>	
<b>15</b>			<b>15</b>		

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 <sup>9</sup>	
3	TLI 48390 IET Capstone I	MET 24500 and TLI 43530	2	Technical Elective <sup>9</sup>	
3	Advanced Communication Selective <sup>7</sup>		3	Free Elective <sup>10</sup>	
3	Free Elective <sup>10</sup>		3	Free Elective <sup>10</sup>	
0	Internship Experience <sup>11</sup>		0	Globalization Experience <sup>12</sup>	
<b>16</b>			<b>14</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 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

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**The student is ultimately responsible for knowing and completing all degree requirements.**

**myPurdue Plan is knowledge source for specific requirements and completion**

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# IET Supplemental Information

All prerequisites must be met

## <sup>1</sup>Behavioral/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

## <sup>2</sup>Science 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 21800 General Physics I

PHYS 21900 General Physics II

## <sup>3</sup>Oral Communication Selective

COM 11400 Fundamentals of Speech Comm

## <sup>4</sup>Written 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

## <sup>5</sup>Mathematics/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

## <sup>6</sup>History 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<sup>th</sup> Century World

POL 42900 Contemporary Political Problems

HIST 31505 American Beauty

HIST 38001 History Of United States Agriculture

HIST 33000 History Of The Brit Empire &

HIST 38400 History Of Aviation

Commonwealth, 1783 To 1960

HIST 38700 History Of The Space Age

## <sup>7</sup>Advanced 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

## <sup>8</sup>TLI 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

## <sup>9</sup>Technical Elective (8 credits)

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

## <sup>10</sup>Free Electives (9 credits)

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

## <sup>11</sup>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

**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
<p>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 &amp; 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 &amp; Culture                      EDPS 31600 Collaborative Leadership: Cross-cultural Stgs                      HIST 19500: Historical Research &amp; 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</p>	<p>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 &amp; Culture of Native America                      HIST 46900 Black Civil Rights Movement                      HIST 47900 Amer. Represent. of Middle East &amp; North Africa                      HIST 49900 History of Sexual Regulation in the United States                      POL 22200 Women, Politics &amp; 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</p>

Courses marked in bold offered at Anderson.