

**Required Department Courses (66 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 23500 Introduction to Lean & Sustainable Systems or IT 21400 Intro to Lean Manufacturing
- \_\_\_\_\_ (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 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 41400 Financial Analysis for Technology Systems or IT 43200 Financial Transaction in Distribution
- \_\_\_\_\_ (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: Problem Identification & Analysis
- \_\_\_\_\_ (3) TLI 48395 IET Capstone II: Facility Design
- \_\_\_\_\_ (3) TLI Selective (See Supplemental Information)
- \_\_\_\_\_ (0) Intercultural Experience (See Supplemental Information)
- \_\_\_\_\_ (0) Internship Experience (See Supplemental Information)

**Other Departmental Requirements (45 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) MA 15555 Quantitative Reasoning or MA 15800 Precalculus (**satisfies Quantitative Reasoning for core**)
- \_\_\_\_\_ (3) Mathematics/Statistics Selective(See Supplemental Information)
- \_\_\_\_\_ (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)
- \_\_\_\_\_ (3) History of Science and Technology Selective (See Supplemental Information)
- \_\_\_\_\_ (3) Advanced Communication Selective (See Supplemental Information)
- \_\_\_\_\_ (8) Technical Electives \_\_\_\_\_(3) \_\_\_\_\_(3) \_\_\_\_\_(2)

**Free Electives (9 credits)** (See Supplemental Information)

\_\_\_\_\_ (FE) \_\_\_\_\_ (FE) \_\_\_\_\_ (FE) \_\_\_\_\_

**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"/>	_____			

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**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 Purdue Polytechnic South Bend:

Fall 1 <sup>st</sup> Year	CR	GR	Sem	Fulfilled by	Spring 1 <sup>st</sup> 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			
CGT 11000 Technical Graphic Communication	3				MET 14300 or MET 14400 Materials & Processes I or II	3			
Written Communication Selective*	3				PHYS 21800 General Physics* - PHYS-P 221 or 20100 (IUSB)	5			
<b>Total Credit Hours</b>	<b>15</b>				<b>Total Credit Hours</b>	<b>17</b>			

Fall 2 <sup>nd</sup> Year	CR	GR	Sem	Fulfilled by	Spring 2 <sup>nd</sup> 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			
<b>Total Credit Hours</b>	<b>15</b>				<b>Total Credit Hours</b>	<b>15</b>			

Fall 3 <sup>rd</sup> Year	CR	GR	Sem	Fulfilled by	Spring 3 <sup>rd</sup> 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			
<b>Total Credit Hours</b>	<b>15</b>				<b>Total Credit Hours</b>	<b>15</b>			

Fall 4 <sup>th</sup> Year	CR	GR	Sem	Fulfilled by	Spring 4 <sup>th</sup> Year	CR	GR	Sem	Fulfilled by
TLI 48390 IET Capstone I: Problem Identification & Analysis	3				TLI 48395 IET Capstone II: Facility Design	3			
TLI 45700 Technology Policy & Law	3				Technical Elective	3			
TLI 41400 Financial Analysis for Tech Systems (Prerequisites: TLI 33400 min 'C' OR MGMT 20010 min 'C')	3				Technical Elective	3			
Advanced Communication Selective	3				Free Elective	3			
Free Elective	3				Free Elective	3			
Internship Experience	0				Intercultural Experience	0			
<b>Total Credit Hours</b>	<b>15</b>				<b>Total Credit Hours</b>	<b>15</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 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 – Purdue Polytechnic South Bend

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 105 American History I

\*HIST-H 106 American History II

\*HIST-H 113 History of Western Civilization 1

\*HIST-H 114 History of Western Civilization 2

\*MUS-M 17400 Music for the Listener

\*PHIL-P 110 Introduction to Philosophy

\*PHIL-P 140 Introduction to Ethics

### **Behavioral/Social Science Foundational Selective:** see <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 Core Course Requirements:

<http://www.purdue.edu/provost/initiatives/curriculum/documents/Retro%20and%20Transfer%20Credit%20Course%20list%205-27-14.pdf>

\*ECON-E 103 Introduction to Microeconomics

\*ECON-E 104 Introduction to Macroeconomics

\*POLS-Y 103 Introduction to American Politics

\*POLS-Y 109 Introduction to International Relations

\*PSY-P 103 Introduction to Psychology

\*SOC-S 161 Principles of Sociology

\*SOC-S 163 Social Problems

### **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

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

\*SPCH-S 121 Public Speaking

### **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>

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>

\*BIOL-L 100 Humans & the Biological World

\*CHEM-C 101 & 121 Elementary Chemistry & Lab

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

\*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 31405 Tech & Gender in American History

HIST 31505 American Beauty

HIST 33000 History of the Brit Empire & Commonwealth, 1783 to 1960

HIST 33400 Science & Technology in Western Civilization

HIST 35000 Science & Technology in the Twentieth Century World

HIST 38001 History of United States Agriculture

HIST 38400 History of Aviation

HIST 38700 History of the Space Age

HIST 49400 Science & Society American Civ

POL 42900 Contemporary Political Problems

TLI 29900 Technology & Culture Through History



### Purdue University (West Lafayette) courses that meet the Intercultural/global requirement

<p>AAS 27100 Intro to African American Studies                  AAS 37300 Variable Title: History of Injustice                  AGR 20100 Communication Across Cultures                  ANSC 381 Leadership for a Diverse workplace                  ANTH 203 Biological Bases of Human Social Behavior                  ANTH 20500 Human cultural Diversity                  ANTH 21000 Technology and Culture                  ANTH 21200 Culture, Food and Health                  ANTH 23000 Gender Across Cultures                  ANTH 34000 Global Perspectives on Health                  ANTH 341 Culture and Personality                  ANTH 379 Native American Cultures                  ARAB 28000 Arabic culture                  ASAM 240Intro to Asian American Studies                  ASAM 240 Intro to Asian American Studies                  AT 23300 Ethics and Aviation                  CNIT 320 Policy, Regulation, and Globalization in information Technology                  COM 224 Communicating in the Global Workplace                  COM 30300 Intercultural Communication                  COM 32000 Small Group Communication                  COM 373 Self-Presentation &amp; Social Image                  COM 380 Sociolinguistic Study of African American English                  COM 380 Sociolinguistic Study of African American English                  COM 412 Theories of Human interaction                  COM 423 Leadership, Communication &amp; Organizations                  ECET 29000 International Experience                  ECET 38001 Global Professional Issues in ET                  EDPS 235 Learning and Motivation                  EDPS 30000 Student Leadership Development                  EDPS 301 Peer Counselling Training                  EDPS 31500 Collaborative Leadership: Listening                  EDPS 31600 Collab Leadership: Cross-cultural Settings                  EDPS 317 Collaborative Leadership: Mentoring                  ENGL 41400 Literature &amp; Culture                  HDFS 233 Stress and Human Health                  HDFS 280 Diversity in Individual and Family Life                  HDFS 332 Stress &amp; Coping in Contemporary Families                  HEBR 38500 The Holocaust in Modern Hebrew Literature                  HIST 195 Historical Research &amp; Film!                  Any foreign language 200 or higher (201, 202, 301, 302, 401, 402)                  Any Purdue approved SA that includes reflective learning assignments</p>	<p>HIST 30000 Eve of Destruction: Global Crises and World Organization in the 20th Century                  HIST 33805 History of Human Rights                  HIST 35000 Science and Society in the 20th-Century World                  HIST 366 Hispanic Heritage of the USA                  HIST 377 History &amp; Culture of Native America                  HIST 46900 Black Civil Rights Movement                  HIST 479 American Representations of Middle East &amp; N. Africa                  HIST 499 History of Sexual Regulation in the United States                  HTM 370 Sustainable Tourism and Responsible Travel                  HTM 37200 Global Tourism Geography                  MSL 201 Individual Leadership Studies                  OLS 350 Creativity In Business &amp; Industry                  PHIL 11400 Global Moral Issues                  PHIL 435 Philosophy of Mind                  POL 222 Women, Politics &amp; Public Policy                  POL 23500 Rich and Poor Nations                  POL 326 Black Political Participation in America                  POL 32700 Global Green Politics                  POL 36000 Women and the Law                  POL 413 The Human Basis of Politics                  POL 42300International Environmental Policy                  POL 42900 Variable Title: It's a Complex World (Cross listed with IE49000, ME29700)                  POL 43300 International Organization                  PSY 120 Elementary Psychology                  PSY 250 Psychology of Adjustment                  PSY 251 Health Psychology                  PSY 285 Consumer Behavior                  PSY 322 Research Design                  PSY 333 Motivation                  SOC 10000 Intro to Sociology                  SOC 310 Racial and Ethnic Diversity                  SOC 33900 Intro to Sociology of Developing Nations  <b>TECH 330 Technology and the Global Society</b>  <b>TLI 11200 Foundations of Tech Leadership</b>  <b>TLI 31400 Leading Innovation in Organizations</b>                  WGSS 282 Intro to LGBT Studies                  WGSS 38000 Gender and Multiculturalism                  WGSS 38300 Women and Work</p>
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### Polytechnic Statewide- South Bend (IUSB) Approved Courses

South Bend- Offered through IUSB

<p>ANTH-E Indians of Indiana                  ANTH-E 105 Culture &amp; Society                  ANTH-E 300 Culture Areas &amp; Ethnic Groups                  ANTH-E 310 Introduction to Cultures of Africa                  ANTH-E 321 Peoples of Mexico                  ANTH-E 335 Ancient Civilization of Mesoamerica                  ANTH-E 397 Peoples &amp; Cultures of the Middle East                  EALC-J 101 Elementary Japanese I                  GEOG-110 Introduction to Human Geography                  GEOG-G 120 Regions of the World                  GEOG-G 201 World Regional Geography</p>	<p>HIST-A 371 History of Indiana I                  HIST-A 372 History of Indiana II                  HIST-A 301 Colonial America                  HIST-A 373 American History Through Film                  HIST-A 355 African American History I                  HIST-B 300 Issues in Western European History                  HIST-B 378 History of Germany Since 1648 II                  HIST-C 386 Greek History from the Minoans to Alexander                  HIST-D 310 Russian Revolution and Soviet Regime                  HIST-F 300 Issues in Latin American History                  HIST-A 352 History of Latinos in the United States</p>
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HIST-G 358 Early Modern Japan	POLS-Y 109 Introduction to International Relations
HIST-H 101 The World in the Twentieth Century I	POLS-Y 343 The Politics of International Development
HIST-H 201 History of Russia I	PSY-P 103 Introduction to Psychology
HIST-H 202 History of Russia II	PSY-P 327 The Psychology of Motivation
HIST-H 207 Modern East Asian Civilization	PSY-P 391 Psychology of Gender and Ethnicity
HIST-H 211 Latin American Culture and Civilization 1	REL-R 152 Jews, Christians, Muslims
HIST-H 212 Latin American Culture and Civilization 2	REL-R 153 Religions of Asia
HIST-W 300 Issues in World History	SOC-S 163 Social Problems
LSTU-L 330 Global Comparisons: Labor Relations – Examples from Three Continents	REL-R 257 Introduction to Islam
LSTU-L 331 Global Problems: Local Solutions	REL-R 354 Buddhism
LSTU-L 385 Class, Race Gender, and Work	SOC-S 161 Principles of Sociology
PHIL-P 102 Critical Thinking and Applied Ethics	SOC-S 335 Race and Ethnic Relations
PHIL-P 105 Critical Thinking	SPAN-S 101 Elementary Spanish I
PHIL-P 140 Introduction to Ethics	SPCH-B 399 Human Behavior and Social Institutions
POLS-Y 107 Introduction to Comparative Politics	SPCH-S 324 Persuasive Speaking
SPCH-S 427 Cross Cultural Communication	