

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

**Departmental/Program Major Courses (64 credits)**

- \_\_\_\_\_ (3) CGT 11000 Technical Graphic Communications OR CGT 11600 Geometric Modeling for Visualization & Communication
- \_\_\_\_\_ (3) Computer-Aided Design Selective
- \_\_\_\_\_ (3) ECET Selective
- \_\_\_\_\_ (3) ECET Selective
- \_\_\_\_\_ (3) ENGT 18000 Engineering Technology Foundations
- \_\_\_\_\_ (1) ENGT 18100 Engineering Technology Foundations Laboratory
- \_\_\_\_\_ (3) MET 11100 Applied Statics
- \_\_\_\_\_ (3) MET 14300 Materials & Processes I OR MET 14400 Materials & Processes II
- \_\_\_\_\_ (3) MET 24500 Manufacturing Systems
- \_\_\_\_\_ (3) Programming Selective
- \_\_\_\_\_ (3) TLI 11100 Introduction to Manufacturing & Supply Chain Systems
- \_\_\_\_\_ (3) TLI 11200 Foundation of Organizational Leadership
- \_\_\_\_\_ (3) TLI 31600 Statistical Quality Control
- \_\_\_\_\_ (3) TLI 33400 Economic Analysis for Tech Systems

**Technical Selectives 24 cr. hrs. (15 cr. hrs. must be 300/400 level)**

- \_\_\_\_\_ (3) \_\_\_\_\_ (3) \_\_\_\_\_ (3) \_\_\_\_\_ (3)
- \_\_\_\_\_ (3) \_\_\_\_\_ (3) \_\_\_\_\_ (3) \_\_\_\_\_ (3)

**Other Departmental /Program Course Requirements (56 credits)**

- \_\_\_\_\_ (3) MA 15800 – Precalculus – Functions and Trigonometry (*satisfies Quantitative Reasoning for core*)
- \_\_\_\_\_ (3) MA 16010 - Applied Calculus I
- \_\_\_\_\_ (4) Lab Science Foundation Selective (*satisfies Science for core*)
- \_\_\_\_\_ (4) PHYS 21800 General Physics (**\*PHYS-P 201 OR 221**) General Physics (*satisfies Science for core*)
- \_\_\_\_\_ (3) TECH 12000 Design Thinking in Technology (*satisfies Science, Technology & Society Selective and Information Literacy for core*)
- \_\_\_\_\_ (3) Technical/Management Selective
- \_\_\_\_\_ (3) Global/Professional Selective
- \_\_\_\_\_ (1) TECH 49600 Senior Design Project Proposal
- \_\_\_\_\_ (2) TECH 49700 Senior Design Project
- \_\_\_\_\_ (3) ECON 21000 (**\*ECON-E 103 or ECON-E 104**) (*satisfies Human Culture Behavioral/Social Science for core*)
- \_\_\_\_\_ (3) Humanities Foundation Selective (*satisfies Human Cultures Humanities for core*)
- \_\_\_\_\_ (3) COM 11400 (**\*SPCH-S 121** – Public Speaking) - Fundamentals of Speech Communication (*satisfies Oral Communication for core*)
- \_\_\_\_\_ (3) Written Communication Foundation Selective (**\*ENG-W 131**) (*satisfies Written Communication for core*)
- \_\_\_\_\_ (3) Advanced Oral Communication Selective
- \_\_\_\_\_ (3) ENGL 42100 Technical Writing
- \_\_\_\_\_ (3) Humanities/Liberal Arts Elective
- \_\_\_\_\_ (3) Humanities/Liberal Arts Elective

**Free Electives (6 cr. hrs.)**

- \_\_\_\_\_ (3) \_\_\_\_\_ (3) \_\_\_\_\_

**University Core Requirements**

Human Cultures: Behavioral/Social Sciences	<input type="checkbox"/>	_____	Science	<input type="checkbox"/>	_____
Human Cultures: Humanities	<input type="checkbox"/>	_____	Science	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Science, Technology & Society	<input type="checkbox"/>	_____
Oral Communication	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Quantitative Reasoning	<input type="checkbox"/>	_____			

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**The student is ultimately responsible for knowing and completing all degree requirements.  
Degree Works is knowledge source for specific requirements and completion**

\*\*\*\*\*Updated 05-26-2016

Fall 1 <sup>st</sup> Year	CR	GR	Sem	Fulfilled by	Spring 1 <sup>st</sup> Year	CR	GR	Sem	Fulfilled by
Written Communication Foundation Selective* – <b>ENG-W 131</b> (IUSB)	3				Programming Selective	3			
ENGT 18000 – Engineering Technology Foundations	3				MA 16010 Applied Calculus I (Prereq: MA 15800 with grade of C- or better or ALEKS score 75)	3			
ENGT 18100 – Engineering Technology Applications	1				Humanities Foundation Selective*	3			
MA 15800* - Precalculus – Functions & Trigonometry (Prereq ALEKS score 60)	3				PHYS 21800 General Physics* <b>PHYS-P 221 or 201</b> (IUSB)	5			
MET 14300 – Materials & Processes I OR MET 14400 Materials & Processes II	3				COM 11400 Fundamental of Speech Communication* - <b>SPCH-S 121</b> (IUSB)	3			
TECH 12000 Design Thinking in Tech.*	3								
<b>TOTAL CREDIT HOURS</b>	<b>16</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
CGT 11000 – Technical Graphic Communications OR CGT 11600 Geometric Model for Visualztn & Comm	3				MET 11100 Applied Statics (Prereqs: MA 15800 and MET 16200)	3			
ECET Selective	3				ECET Selective	3			
Humanities/Liberal Arts Elective	3				Computer-Aided Design Selective	3			
Technical Selective	3				Lab Science Foundation Selective*	4			
TLI 11200 Foundation of Organizational Leadership	3				TLI 11100 Introduction to Manufacturing & Supply Chain	3			
<b>TOTAL CREDIT HOURS</b>	<b>15</b>				<b>TOTAL CREDIT HOURS</b>	<b>16</b>			

Fall 3 <sup>rd</sup> Year	CR	GR	Sem	Fulfilled by	Spring 3 <sup>rd</sup> Year	CR	GR	Sem	Fulfilled by
MET 24500 – Manufacturing Systems	3				<b>ECON 21000</b> – Principles of Econ - <b>ECON-E 103</b> Intro to Microeconomics (IUSB) or <b>ECON-E 104</b> Intro to Macroeconomics (IUSB)	3			
ENGL 42100 Technical Writing (Prereq: ENGL 10600 or ENG-W 131 (IUSB))	3				Advanced Oral Communication Selective	3			
Technical/Management Selective	3				Global/Professional Selective	3			
TLI 31600 or IT 34200 Statistical Quality Control (Prereq: MA 15800)	3				Technical Selective	3			
Technical Selective	3				Technical Selective (300- 400 level)	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
TECH 49600 – Senior Design Project	1				TECH 49700 – Senior Design Project	2			
TLI 33400 Economic Analysis for Tech Systems or IT 45000 Production Cost Analysis (Prereq: Math/Stat Selective)	3				Technical Selective (30000- 40000 level)	3			
Technical Selective (30000- 40000 level)	3				Technical Selective (30000- 40000 level)	3			
Technical Selective (30000- 40000 level)	3				Humanities/Liberal Arts Elective	3			
Free Elective	3				Free Elective	3			
<b>TOTAL CREDIT HOURS</b>	<b>13</b>				<b>TOTAL CREDIT HOURS</b>	<b>14</b>			

\*Fulfills University Core Requirement

1. 120 semester credits and a 2.0 Graduation GPA are required for the 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. Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.

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\*\*\*\*\* Updated 05/26/2016

## ET Supplemental Information

All prerequisites must be met

**BOLD indicates courses offered at the South Bend location**

**\*Indicates approved IUSB course for South Bend location**

### WRITTEN COMMUNICATION FOUNDATION SELECTIVE

ENGL 10600 First Year Composition

ENGL 10800 Accelerated First Year Composition

**ENG-W 131 Reading, Writing, & Inquiry**

### PROGRAMMING SELECTIVES

**CNIT 10500 Introduction to C Programming**

CNIT 15501 Introduction to Software Development Concepts

**CNIT 17500 Visual Programming**

MET 16400 Computing in Engineering Technology

### HUMANITIES FOUNDATIONAL SELECTIVE

See approved UCC 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 174 Music for the Listener**

**\*PHIL-P 110 Introduction to Philosophy**

**\*PHIL-P 140 Introduction to Ethics**

### ECET SELECTIVES

**ECET 22400 Electronics Systems**

**ECET 17700 DAQ and Systems Control**

**ECET 17900 Intro to Digital Systems**

### COMPUTER-AIDED DESIGN SELECTIVES

**CGT 22600 Introduction to Constraint-based Modeling**

**MET 10200 Production Design and Specifications**

### LAB SCIENCE SELECTIVES

BIOL 11000 Fundamentals of Biology I

BIOL 20300 Human Anatomy and Physiology

CHM 11200 General Chemistry II

PHYS 21900 General Physics II

PHYS 22100 General Physics

**\*PHYS-P 222-Physics II or PHYS-P 202 – General Physics II**

**\*BIOL-L 100 – Humans & the Biological World**

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

### TECHNICAL /MANAGEMENT SELECTIVES

MGMT 20000 Intro to Accounting

MGMT 45500 Legal Background for Business I

**TECH 32000 Technology and the Organization**

**TLI 21300 Project Management**

### GLOBAL/PROFESSIONAL SELECTIVES

**ECET 38001 Global/Professional Issues in Electrical Engineering Technology**

**TECH 33000 Technology and the Global Society**

**TLI 35600 Global Technology Leadership**

ADVANCED ORAL COMMUNICAITON SELECTIVE

**COM 3200 Small Group Communications OR \*SPCH-S 229 Discussion & Group Methods**  
COM 30300 Intercultural Communication OR COM 31400 Adv. Presentational Speaking  
**\*SPCH-S 223 Business & Professional Speaking**

**\*SPCH-S380 Nonverbal Communication**  
**\*SPCH-S 427 Cross Cultural Communication**  
**\*SPCH-S 440 Organizational Communication**  
**\*SPCH-S 450 Gender & Communication**

TECHNICAL SELECTIVES

At least 15 credit hours must be at the 30000 level or above and at least 6 credit hours must be in the same discipline

CGT 32300 Virtual Product Integration  
CGT 32600 Graphics Standards for Product Definition  
**ECET 30201 Introduction to Industrial Controls**  
ECET 32100 Introduction to Nanotechnology  
**ECET 38500/ECET 49900 Intro to Automotive Electronics**  
**TLI 23500 Introduction to Lean and Sustainable Systems**  
**TLI 31400 Leading Innovation in Organizations**  
TLI 31500 Innovative Product Development and Testing  
**TLI 33520 Human Factors for Technology Systems**  
TLI 33610 Risk Analysis & Assessment  
**TLI 33620 Total Production Maintenance**

TLI 41400 Financial Analysis for Technology Systems  
TLI 43530 Operations Planning and Management  
TLI 43540 Facilities Planning  
**TLI 43640 Lean Six Sigma**  
TLI 45700 Technology Policy & Law  
**MET 30200 CAD in the Enterprise**  
**MET 38200 Controls & Instrumentation**  
**MET 45100 Manufacturing Quality Control**  
**MFET 30000 Applications of Automation in Manufacturing**  
MFET 31100 Computer-Aided Design in Manufacturing

HUMANITIES/LIBERAL ARTS ELECTIVES

Any course from the following disciplines: Anthropology, English, History, Philosophy, Political Science, Psychology, Religious Studies, Sociology, Theatre, Women's Studies, or Foreign Languages (except native language courses)

FREE ELECTIVES

Courses from any discipline at the 20000 – 40000 level.