

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

**Departmental/Program Major Courses (46 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) Global/Professional Selective
- \_\_\_\_\_ (3) Senior Capstone Project 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

**CONCENTRATION: Technology Integration (31 credits)**

- \_\_\_\_\_ (4) Lab Science Foundation Selective (*satisfies Science for core*)
- |  |     |                                  |
|--|-----|----------------------------------|
|  | (3) | Humanities/Liberal Arts Elective |
|--|-----|----------------------------------|

Technical Selectives 24 cr. hrs. **(15 cr. hrs. must be 300/400 level, included in required major credits)**

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

**Other Departmental /Program Course Requirements (37 credits)**

- \_\_\_\_\_ (3) MA 15800 – Precalculus – Functions and Trigonometry (*satisfies Quantitative Reasoning for core*)
- \_\_\_\_\_ (3) MA 16010 - Applied Calculus I
- \_\_\_\_\_ (4) PHYS 21800 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) Senior Capstone Project Selective
- \_\_\_\_\_ (3) ECON 21000 (*satisfies Human Culture Behavioral/Social Science for core*)
- \_\_\_\_\_ (3) Humanities Foundation Selective (*satisfies Human Cultures Humanities for core*)
- \_\_\_\_\_ (3) COM 11400 Fundamentals of Speech Communication (*satisfies Oral Communication for core*)
- \_\_\_\_\_ (3) Written Communication Foundation Selective (*satisfies Written Communication for core*)
- \_\_\_\_\_ (3) Advanced Oral Communication Selective
- \_\_\_\_\_ (3) ENGL 42100 Technical Writing
- \_\_\_\_\_ (0) Intercultural Requirement
- \_\_\_\_\_ (0) Professional Requirement

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

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

**University Core Requirements**

Human Cultures: Behavioral/Social Sciences	□		Science	□	
Human Cultures: Humanities	□		Science	□	
Information Literacy	□		Science, Technology & Society	□	
Oral Communication	□		Written Communication	□	
Quantitative Reasoning	□				

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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 04-21-2017

Name: \_\_\_\_\_

Major: Engineering Technology (ET)  
 Concentration in Technology Integration  
 ET-BS Suggested Arrangement of Courses

Catalog Term: \_\_\_\_\_ PUID: \_\_\_\_\_

For Catalog Terms beginning in fall 2017

Major Code: ENGT Program Code: PITLI-ET-BS

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*	3				TLI 11200 Foundation of Organizational Leadership	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				MET 14300 – Materials & Processes I OR MET 14400 Materials & Processes II	3			
MA 15800* - Precalculus – Functions & Trigonometry (Prereq ALEKS score 60)	3				MET 11100 Applied Statics (Prereqs: MA 15800 and MET 16200)	3			
TLI 11100 Introduction to Manufacturing & Supply Chain	3				COM 11400 Fundamental of Speech Communication*	3			
TECH 12000 Design Thinking in Tech.*	3								
<b>TOTAL CREDIT HOURS</b>	<b>16</b>				<b>TOTAL CREDIT HOURS</b>	<b>15</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				Programming Selective	3			
ECET Selective	3				ECET Selective	3			
Technical Selective	3				Computer-Aided Design Selective	3			
PHYS 21800 General Physics*	4				ECON 21000 – Principles of Economics	3			
Humanities Foundation Selective*	3				Technical Selective	3			
<b>TOTAL CREDIT HOURS</b>	<b>16</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
MET 24500 – Manufacturing Systems	3				Technical Selective	3			
ENGL 42100 Technical Writing (Prereq: ENGL 10600)	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				Lab Science Foundation Selective*	4			
Technical Selective	3				Technical Selective (300- 400 level)	3			
<b>TOTAL CREDIT HOURS</b>	<b>15</b>				<b>TOTAL CREDIT HOURS</b>	<b>16</b>			

Fall 4 <sup>th</sup> Year	CR	GR	Sem	Fulfilled by	Spring 4 <sup>th</sup> Year	CR	GR	Sem	Fulfilled by
Senior Capstone Project Selective	3				Senior Capstone Project Selective	3			
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				Free Elective	3			
Humanities/Liberal Arts Elective	3				Free Elective	3			
<b>TOTAL CREDIT HOURS</b>	<b>15</b>				<b>TOTAL CREDIT HOURS</b>	<b>12</b>			

\*Fulfills University Core Requirement

- 120 semester credits and a 2.0 Graduation GPA are required for the Bachelor of Science degree.
- 2.0 Graduation GPA required for Bachelor of Science degree.
- 32 credits of upper division courses (30000 level or higher) must be taken at the Purdue University location conferring the degree.
- Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.
- Complete a Professional Requirement.  Complete an Intercultural Requirement.

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\*\*\*\*\* Updated 03/31/2017

## ET Supplemental Information

All prerequisites must be met

### WRITTEN COMMUNICATION FOUNDATION SELECTIVE

#### **ENGL 10600 First Year Composition**

ENGL 10800 Accelerated First Year Composition

### 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>

#### **HIST 15100 American History to 1877**

#### **HIST 15200 US From 1877**

#### **MUS 25000 Music Appreciation**

#### **PHIL 11000 Intro to Philosophy**

#### **PHIL 11100 Ethics**

<sup>11</sup>BEHAVIORAL/SOCIAL SCIENCES FOUNDATIONAL SELECTIVE: see

[http://catalog.purdue.edu/preview\\_program.php?catoid=7&pooid=6694](http://catalog.purdue.edu/preview_program.php?catoid=7&pooid=6694) (Human Cultures: Behavioral/Social Sciences (BSS))

#### **PSY 12000 Elementary Psychology**

#### **SOC 10000 Introductory Sociology**

#### **ECON 21000 Principles of**

**Economics**

### 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 24100 Electricity and Optics

### TECHNICAL/MANAGEMENT SELECTIVES

#### **MGMT 20000 Intro to Accounting**

MGMT 45500 Legal Background for Business I

#### **TECH 32000 Technology and the Organization**

#### **TLI 23100 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 32000 Small Group Communications**

**COM 30300 Intercultural Communication OR COM 31400 Adv. Presentational Speaking**

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 17900 Intro to Digital Systems**

**ECET 27900 Embedded Digital Systems**

**ECET 30201 Introduction to Industrial Controls**

ECET 32100 Introduction to Nanotechnology

**ECET 32700 Instrumentation and DAQ Design**

**ECET 33700 Analog Signal Processing**

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 23000 Fluid Power**

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

**MFET 34400 Automated Manufacturing Processes**

**MFET 37400 Manufacturing Integration**

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.

Courses marked in bold offered at Anderson.