

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

| 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<br>(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<br>MET 14400 Materials & Processes II                   | 3         |    |     |              |
| MA 15800* - Precalculus – Functions & Trigonometry (Prereq ALEKS score 60) | 3         |    |     |              | MET 11100 Applied Statics<br>(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<br>(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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**The student is ultimately responsible for knowing and completing all degree requirements.**  
**Degree Works is knowledge source for specific requirements and completion.**  
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## 2017 ET Supplemental Information

All prerequisites must be met

**Bold indicates courses offered at New Albany location.**

**\*Indicates IU Southeast course for New Albany location only (See Student Services Coordinator for availability.)**

### WRITTEN COMMUNICATION FOUNDATION SELECTIVE

ENGL 10600 (**\*ENG-W131**) First Year Composition

ENGL 10800 Accelerated First Year Composition

### PROGRAMMING SELECTIVES

CNIT 10500 (**\*CSCI-C105**) Introduction to C Programming

CNIT 15501 Introduction to Software Development Concepts

CNIT 17500 (**\*CSCI-A201**) 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>

**\*ENG-L104, FINA-F100, FINA-H100, HIST-H105, HIST-H106, MUS-M174, EALC-J101**

### 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 (**\*BIOL-L100**) Fundamentals of Biology I

BIOL 20300 Human Anatomy and Physiology

CHM 11200 (**\*CHEM-C102**) General Chemistry II

PHYS 21900 General Physics II

PHYS 22100 (**\*PHYS-P202**) General Physics

PHYS 24100 Electricity and Optics

### TECHNICAL /MANAGEMENT SELECTIVES

MGMT 20000 (**\*BUS-A201**) Intro to Accounting

MGMT 45500 (**\*BUS-L201**) 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 32000 (**\*SPCH-S229**) 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 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 (**MET 28400**) 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.