### Engineering Technology
Purdue Polytechnic New Albany
Concentration in Technology Integration
120 Credits for graduation

**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)*

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

- (3) Humanities/Liberal Arts Elective

### 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) 

### University Core Requirements

<table>
<thead>
<tr>
<th>Human Cultures: Behavioral/Social Sciences</th>
<th>Science</th>
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<tr>
<td>Human Cultures: Humanities</td>
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<tr>
<td>Information Literacy</td>
<td>Science, Technology &amp; Society</td>
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<td>Oral Communication</td>
<td>Written Communication</td>
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<td>Quantitative Reasoning</td>
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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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Updated 04-21-2017
Major: Engineering Technology (ET)
Concentration in Technology Integration
ET-BS Suggested Arrangement of Courses

<table>
<thead>
<tr>
<th>Fall 1st Year</th>
<th>CR</th>
<th>GR</th>
<th>Sem</th>
<th>Completed by</th>
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<tr>
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<td>TLI 11200 Foundation of Organizational Leadership</td>
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<td>ENGT 18000 – Engineering Technology Foundations</td>
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<td>MA 16010 Applied Calculus I (Prereq: MA 15800 with grade of C- or better or ALEKS score 75)</td>
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<td>ENGT 18100 – Engineering Technology Applications</td>
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<td>MET 14300 – Materials &amp; Processes I OR MET 14400 Materials &amp; Processes II</td>
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<td>MA 15800* - Precalculus – Functions &amp; Trigonometry (Prereq ALEKS score 60)</td>
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<td>MET 11100 Applied Statics (Prereqs: MA 15800 and MET 16200)</td>
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<tr>
<td>TLI 11100 Introduction to Manufacturing &amp; Supply Chain</td>
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<td>COM 11400 Fundamental of Speech Communication*</td>
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<tr>
<td>TECH 12000 Design Thinking in Tech.*</td>
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<td>CGT 11000 – Technical Graphic Communications OR CGT 11600 Geometric Model for Visualiztn &amp; Comm</td>
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<td>Computer-Aided Design Selective</td>
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<td>PHYS 21800 General Physics*</td>
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<td>ECON 21000 – Principles of Economics</td>
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<td>Humanities Foundation Selective*</td>
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<td>MET 24500 – Manufacturing Systems</td>
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<td>Advanced Oral Communication Selective</td>
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<td>Technical/Management Selective</td>
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<td>Global/Professional Selective</td>
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<td>TLI 31600 or IT 34200 Statistical Quality Control (Prereq: MA 15800)</td>
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<td>Lab Science Foundation Selective*</td>
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<td>TU 33400 Economic Analysis for Tech Systems or IT 45000 Production Cost Analysis (Prereq: Math/Stat Selective)</td>
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<td>Technical Selective (30000- 40000 level)</td>
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<td>Technical Selective (30000- 40000 level)</td>
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<td>Free Elective</td>
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<td>Technical Selective (30000- 40000 level)</td>
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<td>Free Elective</td>
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<td>Humanities/Liberal Arts Elective</td>
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<td>Free Elective</td>
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*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 03/31/2017
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 COMMUNICATION 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.