

Departmental/Program Major Courses (46 credits)

- _____ (3) **CGT 11000 Technical Graphic Communications** or CGT 11600 Geometric Modeling for Visualization & Communication
- _____ (3) ¹Computer-Aided Design Selective
- _____ (3) ²ECET Selective – (**ECET 17700**)
- _____ (3) ²ECET Selective – (**ECET 22400**)
- _____ (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) ³Programming Selective
- _____ (3) ⁴Global/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) ⁵Lab Science Foundation Selective (*satisfies Science for core*)
- _____ (3) ⁶Humanities/Liberal Arts Elective

⁷Technical 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 (***PHYS-P 201**) (*satisfies Science for core*)
- _____ (3) TECH 12000 Design Thinking in Technology (*satisfies Science, Technology & Society Selective and Information Literacy for core*)
- _____ (3) ⁸Technical/Management Selective
- _____ (3) Senior Capstone Project Selective
- _____ (3) ECON 21000 (***ECON-E 103** or ***ECON-E 104**) (*satisfies Human Culture Behavioral/Social Science for core*)
- _____ (3) ⁹Humanities Foundation Selective (*satisfies Human Cultures Humanities for core*)
- _____ (3) COM 11400 Fundamentals of Speech Communication (***SPCH-S 121**) (*satisfies Oral Communication for core*)
- _____ (3) ¹⁰Written Communication Foundation Selective (***ENG-W 131**) (*satisfies Written Communication for core*)
- _____ (3) ¹¹Advanced Oral Communication Selective
- _____ (3) ENGL 42100 Technical Writing
- _____ (0) ¹²Intercultural Requirement
- _____ (0) ¹³Professional Requirement

¹⁴Free Electives (6 cr. hrs.)

- _____ (3) _____ (3) _____

***Denotes Richmond Location Course Offering**

University Core Requirements

Human Cultures: Behavioral/Social Sciences	□ _____	Science	□ PHYS 21800 (*PHYS-P 201)
Human Cultures: Humanities	□ _____	Science	□ _____
Information Literacy	□ TECH 12000	Science, Technology & Society	□ TECH 12000
Oral Communication	□ COM 11400 (*SPCH-S 121)	Written Communication	□ ENGL 10600 or 10800 (*ENG-W 131)
Quantitative Reasoning	□ MA 15800		

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

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

ENGT
 Catalog Term: 201810
 120 credits for graduation

Fall 1 st Year	CR	GR	Sem	Fulfilled by	Spring 1 st Year	CR	GR	Sem	Fulfilled by
MA 15800 PreCalculus – Functions & Trigonometry* (Pre-req ALEKS score 60)	3				MA 16010 Applied Calculus I (Pre-req: MA 15800 with grade of C- or better or ALEKS score 75)	3			
ENGT 18000 Engineering Technology Foundations	3				MET 11100 Applied Statics (Pre-reqs: MA 15800 and ENGT 18000)	3			
ENGT 18100 Engineering Technology Applications	1				TLI 23500 Intro to Lean and Sust. Systems [⁷ Technical Selective]	3			
MET 14300 Materials & Processes I or MET 14400 Materials & Processes II	3				COM 11400 Fundamental of Speech Comm* *SPCH-S 121 (IUE)	3			
CGT 11000 Technical Graphic Comm. or CGT 11600 Geom Model for Vis & Comm	3				*ENG-W 131 (IUE) [¹⁰ Written Commun Foundation Selective*]	3			
TECH 12000 Design Thinking in Tech.*	3								
TOTAL CREDIT HOURS	16				TOTAL CREDIT HOURS	15			

Fall 2 nd Year	CR	GR	Sem	Fulfilled by	Spring 2 nd Year	CR	GR	Sem	Fulfilled by
[³ Programming Selective]	3				MET 10200 Production Design & Specs. [¹ Computer-Aided Design Selective]	3			
PHYS 21800 General Physics* *PHYS-P 201, 5 cr. (IUE)	4				*PHYS-P 202, 5 cr. (IUE) [⁵ Lab Science Foundation Selective*]	4			
ECET 22400 Electronic Systems (Pre-req: MA 16010) [² ECET Selective]	3				ECET 17700 DAQ and Systems Control [² ECET Selective]	3			
MET 24500 Manufacturing Systems (Pre-reqs: MET 14400 & CGT 11000)	3				[⁹ Humanities Foundation Selective*]	3			
TLI 11100 Intro to Mfg & Supply Chain	3				TLI 11200 Found'n of Organiz'l Leadership	3			
TOTAL CREDIT HOURS	16				TOTAL CREDIT HOURS	16			

Fall 3 rd Year	CR	GR	Sem	Fulfilled by	Spring 3 rd Year	CR	GR	Sem	Fulfilled by
TLI 31600 Statistical Quality Control or IT 34200 Intro to Statistical Quality (Pre-req: MA 15800)	3				TLI 43640 Lean Six Sigma or IT 44600 Six Sigma Quality [⁷ Technical Selective (300- 400 level)]	3			
[⁷ Technical Selective]	3				[⁷ Technical Selective]	3			
TECH 32000 Technology & the Organiz'n [⁸ Technical/Management Selective]	3				TECH 33000 Technology & Global Society [⁴ Global/Professional Selective]	3			
[⁶ Humanities/Liberal Arts Elective]	3				MET 21300 Dynamics (Pre-reqs: MA 16010 and MET 11100) [¹⁴ Free Elective]	3			
[¹⁴ Free Elective] (*Apply excess Physics credits here)	3				ECON 21000 Principles of Economics *ECON-E 103 (IUE) or *ECON-E 104 (IUE)	3			
TOTAL CREDIT HOURS	15				TOTAL CREDIT HOURS	15			

Fall 4 th Year	CR	GR	Sem	Fulfilled by	Spring 4 th Year	CR	GR	Sem	Fulfilled by
[⁵ Senior Capstone Project Selective I]	3				[⁵ Senior Capstone Project Selective II]	3			
TLI 33400 Economic Anlys for Tech Systems or IT 45000 Production Cost Analysis (Pre-req: Math/Stat Selective)	3				[⁷ Technical Selective (300- 400 level)]	3			
[⁷ Technical Selective (300- 400 level)]	3				[⁷ Technical Selective (300- 400 level)]	3			
[⁷ Technical Selective (300- 400 level)]	3				COM 32000 Small Group Communication [Pre-req: COM 11400/*SPCH-S 121 (IUE)] [¹¹ Adv Oral Communication Selective]	3			
ENGL 42100 Technical Writing [Pre-req: ENGL 10600 (*ENG-W 131 (IUE)]	3								
TOTAL CREDIT HOURS	15				TOTAL CREDIT HOURS	12			

*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 ¹³Professional Requirement. Complete an ¹²Intercultural Requirement.

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion. Revised 5/1/2017 (Effective Fall 2017)

ET Supplemental Information

All prerequisites must be met

Bold indicates courses offered at Richmond Location.

See Student Services Coordinator for course availability.

***Indicates IUE courses for Richmond Location only.**

¹COMPUTER-AIDED DESIGN SELECTIVES:

CGT 22600 Introduction to Constraint-based Modeling

MET 10200 Production Design and Specifications

²ECET SELECTIVES:

ECET 17700 DAQ and Systems Control

ECET 22400 Electronics Systems

ECET 17900 Intro to Digital Systems

³PROGRAMMING SELECTIVES:

CNIT 10500 Introduction to C Programming

CNIT 17500 Visual Programming

CNIT 15501 Introduction to Software Development Concepts

MET 16400 Computing in Engineering Technology

⁴GLOBAL/PROFESSIONAL SELECTIVES:

ECET 38001 Global/Professional Issues in EET

TLI 35600 Global Technology Leadership

TECH 33000 Technology and the Global Society

⁵LAB SCIENCE SELECTIVES:

BIOL 11000 Fundamentals of Biology I

PHYS 21900 General Physics II

BIOL 20300 Human Anatomy and Physiology

PHYS 22100 General Physics

CHM 11200 General Chemistry II

***PHYS-P 202**

PHYS 24100 Electricity and Optics

⁶HUMANITIES/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)

***ANTH-A 104, *ANTH-E 320**

***FREN-F 200, *FREN-F 250,**

***POLS-Y 324,**

***ECON-E 103, *ECON-E 104**

***HIST-H 105, *HIST-H 106**

***PSY-P 103, *PSY-P 216,**

***ENG-G 205, *ENGL-L 204,**

***MUS-M 174, *MUS-T 101,**

***SOC-S 100,**

***FINA-A 101, *FINA-A 102**

***MUS-Z 393,**

***SPAN-S 100, *SPAN-S 150,**

***FINA-F 100, *FINA-H 100**

***PHIL-P 100, *PHIL-P 120,**

***SPAN-S 200, *SPAN-S 250,**

***FINA-S 200, *FINA-S 260,**

***PHIL-P 140**

***SPCH-S 122,**

***FREN-F 100, *FREN-F 150,**

***POLS-Y 103, *POLS-Y 109,**

***THTR-T 210**

⁷TECHNICAL 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

TLI 41400 Financial Analysis for Technology Systems

CGT 32600 Graphics Standards for Product Definition

TLI 43530 Operations Planning and Management

ECET 30201 Introduction to Industrial Controls

TLI 43540 Facilities Planning

ECET 32100 Introduction to Nanotechnology

TLI 43640 Lean Six Sigma

ECET 38500/ECET 49900 Intro to Automotive Electronics

TLI 45700 Technology Policy & Law

TLI 23500 Introduction to Lean and Sustainable Systems

MET 30200 CAD in the Enterprise

TLI 31400 Leading Innovation in Organizations

MET 38200 Controls & Instrumentation

TLI 31500 Innovative Product Development and Testing

MET 45100 Manufacturing Quality Control

TLI 33520 Human Factors for Technology Systems

MFET 30000 Applications of Automation in Manufacturing

TLI 33610 Risk Analysis & Assessment

MFET 31100 Computer-Aided Design in Manufacturing

TLI 33620 Total Production Maintenance

⁸TECHNICAL /MANAGEMENT SELECTIVES:

MGMT 20000 Intro to Accounting

TECH 32000 Technology and the Organization

MGMT 45500 Legal Background for Business I

TLI 23100 Project Management

ET Supplemental Information

All prerequisites must be met

Bold indicates courses offered at Richmond Location.

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***Indicates IUE courses for Richmond Location only.**

⁹HUMANITIES FOUNDATIONAL SELECTIVE:

See approved UCC Humanities list at: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

***ENGL-L 204**

***FINA-A 101, *FINA-A 102**

***FINA-F 100, *FINA-H 100**

***FINA-S 200, *FINA-S 260**

***FREN-F 100, *FREN-F 150,**

***FREN-F 200, *FREN-F 250**

***HIST-H 105, *HIST-H 106**

***MUS-M 174, *MUS-T 101,**

***MUS-Z 393**

***PHIL-P 100, *PHIL-P 120,**

***PHIL-P 140**

***SPAN-S 100, *SPAN-S 150,**

***SPAN-S 200, *SPAN-S 250**

***THTR-T 210**

¹⁰WRITTEN COMMUNICATION FOUNDATION SELECTIVE:

ENGL 10600 First Year Composition

ENGL 10800 Accelerated First Year Composition

***ENG-W 131**

¹¹ADVANCED ORAL COMMUNICAITON SELECTIVE:

COM 32000 Small Group Communications

***300- or 400-level course in *SPCH-S or *CMCL-C**

COM 30300 Intercultural Communication

or COM 31400 Adv. Presentational Speaking

¹²INTERCULTURAL REQUIREMENT:

¹³PROFESSIONAL REQUIREMENT:

¹⁴FREE ELECTIVES:

Courses from any discipline at the 20000 – 40000 level.

***Apply excess Physics credits here.**