

**Departmental/Program Major Courses (52 credits)**

- \_\_\_\_\_ (3) CGT 11000 Technical Graphics Communication or  
\_\_\_\_\_ CGT 11600 Geometric Modeling for Visualization and Communication
- \_\_\_\_\_ (3) CGT 22600 Introduction to Constraint-Based Modeling
- \_\_\_\_\_ (3) CNIT 15500 Introduction to Object-Oriented Programming
- \_\_\_\_\_ (3) CNIT 17600 Information Technology Architectures
- \_\_\_\_\_ (3) IT 21400 Introduction to Lean Manufacturing
- \_\_\_\_\_ (3) IT 34200 Introduction to Statistical Quality
- \_\_\_\_\_ (3) IT 44600 Six Sigma Quality
- \_\_\_\_\_ (3) IT 45000 Production Cost Analysis
- \_\_\_\_\_ (1) MET 16200 Computational Analysis Tools for MET
- \_\_\_\_\_ (3) MET 11100 Applied Statics
- \_\_\_\_\_ (3) MET 14300 Materials and Processes I or  
\_\_\_\_\_ MET 14400 Materials and Processes II
- \_\_\_\_\_ (3) MET 24500 Manufacturing Systems
- \_\_\_\_\_ (3) OLS 25200 Human Behavior in Organizations
- \_\_\_\_\_ (3) OLS 28400 Leadership Principles
- \_\_\_\_\_ (3) TECH 12000 Design for Technology (*satisfies Science, Technology & Society Selective and Information Literacy for core*)
- \_\_\_\_\_ (3) TECH 32000 Technology and the Organization
- \_\_\_\_\_ (3) TECH 33000 Technology and the Global Society
- \_\_\_\_\_ (1) TECH 49600 Senior Design Project Proposal
- \_\_\_\_\_ (2) TECH 49700 Senior Design Project

**Other Departmental/Program Course Requirements (28 credits)**

- \_\_\_\_\_ (3) MA 15800 Precalculus – Functions and Trigonometry (*satisfies Quantitative Reasoning for core*)
- \_\_\_\_\_ (3) MA 22100 Calculus for Technology I
- \_\_\_\_\_ (4) PHYS 21800 General Physics (*satisfies Science for core*)
- \_\_\_\_\_ (3) Written Communication Foundation Selective<sup>4</sup> (*satisfies Written Communication for core*)
- \_\_\_\_\_ (3) ENGL 42100 Technical Writing
- \_\_\_\_\_ (3) COM 11400 (*satisfies Oral Communication for core*)
- \_\_\_\_\_ (3) Advanced Oral Communication Selective<sup>5</sup>
- \_\_\_\_\_ (3) ECON 21000 (*satisfies Human Culture Behavioral/Social Science for core*)
- \_\_\_\_\_ (3) Humanities Foundation Selective<sup>3</sup> (*satisfies Human Cultures Humanities for core*)

**Concentration Requirements (28 credits)**

- \_\_\_\_\_ (4) Lab Science Foundation Selective<sup>2</sup> (*satisfies Science for core*)
- \_\_\_\_\_ (6) ECET Selectives<sup>8</sup>
- \_\_\_\_\_ (18) Technical Selectives<sup>7</sup>

<sup>1</sup> At least 12 credit hours must be upper-level courses (≥30000) and at least 6 credit hours must be in the same discipline

**Free and Humanities/Liberal Arts Electives<sup>6</sup> (12 credits)**

- \_\_\_\_\_ (3) \_\_\_\_\_ Free Elective \_\_\_\_\_ (3) \_\_\_\_\_ Free Elective \_\_\_\_\_ (3) \_\_\_\_\_ Hum/LA Elective \_\_\_\_\_ (3) \_\_\_\_\_ Hum/LA Elective

**University Core Requirements**

Human Cultures Humanities \_\_\_\_\_  
 Human Cultures Behavioral/Social Science \_\_\_\_\_  
 Information Literacy \_\_\_\_\_  
 Science Selective \_\_\_\_\_  
 Science Selective \_\_\_\_\_

Science, Technology & Society Selective \_\_\_\_\_  
 Written Communication \_\_\_\_\_  
 Oral Communication \_\_\_\_\_  
 Quantitative Reasoning \_\_\_\_\_

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

**Suggested Arrangement of Courses:**

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
3	CGT 11000 or CGT 11600		3	CGT 22600	CGT 11000 or CGT 11600
3	MA 15800 <sup>2*</sup>		3	CNIT 15500	
3	MET 14300 or MET 14400		3	COM 11400	
1	MET 16200		3	IT 21400	
3	TECH 12000		3	Humanities Fnd Selective <sup>3*</sup>	
3	Written Comm Fnd Selective <sup>4*</sup>				
<b>16</b>			<b>15</b>		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	CNIT 17600		3	ECET Selective <sup>8</sup>	
3	MA 22100 <sup>2*</sup>	MA 15800	3	ECON 21000	
3	MET 24500	MET 14300 or MET 14400 CGT 11000	3	MET 11100	MA 15800 MET 16200
4	PHYS 21800		3	OLS 25200	
3	ECET Selective <sup>8</sup>		4	Lab Science Fnd Selective <sup>2*</sup>	
<b>16</b>			<b>16</b>		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	IT 34200	MA 15800	3	ENGL 42100	Written Comm Selective
3	TECH 32000	TECH 12000	3	IT 44600	IT 34200
3	Adv Oral Comm Selective <sup>5*</sup>		3	OLS 28400	
3	Humanities/Lib Arts Elective <sup>3</sup>		3	TECH 33000	TECH 12000
3	Technical Selective <sup>7</sup>		3	Technical Selective <sup>7</sup>	
<b>15</b>			<b>15</b>		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	IT 45000	MA 15800	2	TECH 49700	TECH 49600
1	TECH 49600		3	Free Elective <sup>6</sup>	
3	Free Elective <sup>6</sup>		3	Humanities/Lib Arts Elective <sup>3</sup>	
3	Technical Selective <sup>8</sup>		3	Technical Selective <sup>8</sup>	
3	Technical Selective <sup>8</sup>		3	Technical Selective <sup>8</sup>	
<b>13</b>			<b>14</b>		

<sup>1</sup> At least 12 credit hours must be upper-level courses (≥30000) and at least 6 credit hours must be in the same discipline

**120 semester credits required for Bachelor of Science degree.  
2.0 Graduation GPA required for Bachelor of Science degree.**

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

**myPurduePlan is knowledge source for specific requirements and completion**

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# ET Supplemental Information

All prerequisites must be met

**Bold denotes courses offered at the Lafayette campus**  
**See the Student Services Coordinator for availability of classes**

## <sup>1</sup>MA Foundation Selective (minimum 5 credits)

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

MA 15300 Algebra and Trig I & MA 15400 Algebra and Trig II	<b>MA 15910 Intro to Calculus</b>	MA 22100 Calculus for Technology & 2cr. Free Elective
MA 15800 Precalculus – Functions & Trig & 2 cr. Free Elective	MA 16010 Applied Calculus & 2 cr. Free Elective	MA 16100 Plane Analytic Geometry & Calculus I
	MA 16500 Integrated Calculus Analysis Geometry I	MA 22300 Intro Analysis I & 2cr. Free Elective

## <sup>2</sup>Lab Science Foundation Selective (3 credits)

Must be a lab from the approved UCC Science list: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

ASTR 26300 Descriptive Astronomy: The Solar System	BIOL 20400 Human Anatomy and Physiology	EAPS 11200 Earth Through Time
ASTR 26400 Descriptive Astronomy: Stars and Galaxies	BTNY 11000 Intro to Plant Science	EAPS 24300 Earth Materials I
BIOL 11000 Fundamentals of Biology I	CHM 11100 General Chemistry	EAPS 24400 Earth Materials II
BIOL 11100 Fundamentals of Biology II	CHM 11200 General Chemistry	HORT 10100 Fundamentals of Horticulture
BIOL 12100 Biology I: Ecology, Diversity, & Behavior	CHM 11500 General Chemistry	PHYS 17200 Modern Mechanics
BIOL 13100 Biology II: Dev, Structure & Function of Organisms	CHM 11600 General Chemistry	PHYS 21800 General Physics I
BIOL 13500 First year Biology lab	CHM 12500 Introduction to Chemistry	PHYS 21900 General Physics II
BIOL 14600 Introduction to Biology	CHM 12600 Introduction to Chemistry II	PHYS 22000 General Physics
BIOL 20300 Human Anatomy and Physiology	CHM 13600 General Chemistry Honors	PHYS 22100 General Physics
	CHM 20000 Fund of Chemistry	PHYS 24100 Electricity & Optics
	<b>EAPS 10000 Planet Earth</b>	PHYS 27200 Electric & Magnetic Interactions
	EAPS 10900 The Dynamic Earth	
	EAPS 11100 Physical Geology	

## <sup>3</sup>Humanities Foundational Selective (3 credits)

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

## <sup>4</sup>Written Communication Foundation Selective (minimum 3 credits)

**ENGL 10600 First-Year Composition** ENGL 10800 Accelerated First-Year Composition

## <sup>5</sup>Communication Selective (3 credits)

COM 31400 Advanced Presentational Speaking COM 31800 Principles of Persuasion **COM 32500 Interviewing Principles and Practice**

## <sup>6</sup>Free Elective (6 credits)

Any non-remedial course offered for credit at the University not already required/being used on the plan of study

**7Technical Selectives for B. S. Engineering Technology, Technology Integration Concentration**

At least 12 credit hours must be at the 300 level or above and at least 6 credit hours must be in the same discipline.

**\*\*At the Lafayette campus, students should meet with their Student Services Coordinator, and the ET faculty to determine their course options.**

CGT	32300	Virtual Product Integration
CGT	32600	Graphics Standards for Product Definition
ECET	32100	Introduction to Nanotechnology
ECET	38500	Intro to Automotive Electronics
IT	33000	Industrial Sales & Sales Management
IT	33200	Purchasing, Inv. & Warehouse Mgmt.
IT	34500	Automation ID Data Capture
IT	35100	Adv. Industrial Safety & Health Mgmt
IT	38100	Total Production Maintenance
IT	38500	Industrial Ergonomics
IT	43200	Financial Transaction Distribution
IT	43400	Global Trans. & Logistics Mgmt.
IT	43500	Distribution Mgmt. Policy
IT	44200	Production Planning
IT	48300	Facility Design for Lean Manufacturing
MET	30200	CAD in the Enterprise
MET	38200	Controls and Instrumentation
MET	45100	Manufacturing Quality Control
MFET	30000	Computer Integrated Manufacturing Technology
MFET	31100	Computer-Aided Design in Manufacturing
OLS	48400	Leadership Strategies for Quality & Productivity
OLS	35100	Innovation and Entrepreneurship
OLS	48800	Leadership for Lean Enterprise

**6ECET Selectives for B.S. Engineering Technology:**

ECET	21400	Electricity Fundamentals
ECET	23300	Electronics and Industrial Controls