

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

**Departmental/Program Major Courses (64 credits)**

- \_\_\_\_\_ (3) CGT 11000 Technical Graphic Communications OR CGT 11600 Geometric Modeling for Visualization & Communication
- \_\_\_\_\_ (3) CGT 22600 Introduction to Constraint-Based Modeling
- \_\_\_\_\_ (3) CNIT 15500 Object-Oriented Programming or 17500 Visual Programming
- \_\_\_\_\_ (3) CNIT 17600 Information Technology Architecture
- \_\_\_\_\_ (3) ECET 21400 Electricity Fundamentals OR ECET 22400 Electronics Systems
- \_\_\_\_\_ (3) ECET 23300 Electronics & Industrial Controls
- \_\_\_\_\_ (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
- \_\_\_\_\_ (3) MET 11100 Applied Statics
- \_\_\_\_\_ (3) MET 14300 Materials & Processes I OR MET 14400 Materials & Processes II
- \_\_\_\_\_ (1) MET 16200 Analytical & Computational Tools for MET
- \_\_\_\_\_ (3) MET 24500 Manufacturing Systems
- \_\_\_\_\_ (3) OLS 25200 Human Relations in Organization
- \_\_\_\_\_ (3) OLS 28400 Leadership Principles
- \_\_\_\_\_ (6) Technical Selectives
- \_\_\_\_\_ (12) Technical Selectives (300-400 level)

**Other Departmental /Program Course Requirements (56 credits)**

- \_\_\_\_\_ (3) MA 15800 – Precalculus – Functions and Trigonometry (*satisfies Quantitative Reasoning for core*)
- \_\_\_\_\_ (3) MA 16010 - Applied Calculus I
- \_\_\_\_\_ (4) Lab Science Foundation Selective (*satisfies Science for core*)
- \_\_\_\_\_ (4) PHYS 21800 General Physics (**\*PHYS-P 201 OR 221**) General Physics (*satisfies Science for core*)
- \_\_\_\_\_ (3) TECH 12000 Design Thinking in 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
- \_\_\_\_\_ (3) ECON 21000 (**\*ECON-E 103 or ECON-E 104**) (*satisfies Human Culture Behavioral/Social Science for core*)
- \_\_\_\_\_ (3) Humanities Foundation Selective (*satisfies Human Cultures Humanities for core*)
- \_\_\_\_\_ (3) COM 11400 (**\*SPCH-S 121** – Public Speaking) - Fundamentals of Speech Communication (*satisfies Oral Communication for core*)
- \_\_\_\_\_ (3) Written Communication Foundation Selective (**\*ENG-W 131**) (*satisfies Written Communication for core*)
- \_\_\_\_\_ (3) Advanced Oral Communication Selective
- \_\_\_\_\_ (3) ENGL 42100 – Technical Writing
- \_\_\_\_\_ (3) Humanities/Liberal Arts Elective
- \_\_\_\_\_ (3) Humanities/Liberal Arts Elective
- \_\_\_\_\_ (6) Free Electives

**\* Denotes South Bend Location Course Offering**

**University Core Requirements**

Human Cultures: Behavioral/Social Sciences	<input type="checkbox"/>	_____	Science	<input type="checkbox"/>	_____
Human Cultures: Humanities	<input type="checkbox"/>	_____	Science	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Science, Technology & Society	<input type="checkbox"/>	_____
Oral Communication	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Quantitative Reasoning	<input type="checkbox"/>	_____			

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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**

\*\*\*\*\*Updated 04/22/15

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* – <b>ENG-W 131</b> (IUSB)	3				<b>CNIT 15500</b> Intro Object-Oriented Programming OR <b>CNIT 17500</b> Visual Programming	3			
<b>CGT 11000</b> – Technical Graphic Communications OR <b>CGT 11600</b>	3				<b>MA 16010</b> Applied Calculus I (Prereq: MA 15800 with grade of C- or better or ALEKS score 75)	3			
<b>MA 15800*</b> - Precalculus – Functions & Trigonometry (Prereq ALEKS score 60)	3				<b>Humanities Foundation Selective*</b>	3			
<b>MET 14300</b> – Materials & Processes I OR <b>MET 14400</b> Materials & Processes II	3				<b>IT 21400</b> – Introduction to Lean Manufacturing	3			
<b>MET 16200</b> Computational Anly Tools	1				<b>COM 11400</b> Fundamental of Speech Communication* - <b>SPCH-S 121</b> (IUSB)	3			
<b>TECH 12000</b> 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
<b>PHYS 21800</b> General Physics* <b>PHYS-P 221 or 201</b> (IUSB)	5				<b>ECET Selective</b> – <b>ECET 23300</b> Electronics & Industrial Controls	3			
<b>CNIT 17600</b> – Information Technology Architecture	3				<b>OLS 25200</b> – Human Relations in Organization	3			
<b>ECET Selective</b> - <b>ECET 22400</b> Electronic Systems	3				<b>MET 11100</b> Applied Statics (Prereqs: MA 15800 and MET 16200)	3			
<b>Humanities/Liberal Arts Elective</b>	3				<b>Lab Science Foundation Selective*</b>	4/5			
<b>CGT 22600</b> Introduction to Constraint-Based Modeling	3				<b>ECON 21000</b> – Principles of Econ - <b>ECON-E 103</b> Intro to Microeconomics (IUSB) or <b>ECON-E 104</b> Intro to Macroeconomics (IUSB)	3			
<b>TOTAL CREDIT HOURS</b>	<b>17</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
<b>MET 24500</b> – Manufacturing Systems	3				<b>IT 44600</b> Six Sigma Quality	3			
<b>ENGL 42100</b> Technical Writing (Prereq: ENGL 10600)	3				<b>OLS 28400</b> – Leadership Principles	3			
<b>IT 34200</b> Introduction to Statistical Quality (Prereq: MA 15800)	3				<b>Advanced Oral Communication Selective</b>	3			
<b>TECH 32000</b> Technology & the Organization	3				<b>TECH 33000</b> Technology & the Global Society	3			
<b>Technical Selective</b>	3				<b>Technical Selective</b>	3			
<b>TOTAL CREDIT HOURS</b>	<b>15</b>				<b>TOTAL CREDIT HOURS</b>	<b>15</b>			

Fall 4 <sup>th</sup> Year	CR	GR	Sem	Fulfilled by	Spring 4 <sup>th</sup> Year	CR	GR	Sem	Fulfilled by
<b>TECH 49600</b> – Senior Design Project	1				<b>TECH 49700</b> – Senior Design Project	2			
<b>IT 45000</b> Production Cost Analysis	3				<b>Technical Selective</b> (300- 400 level)	3			
<b>Technical Selective</b> (300- 400 level)	3				<b>Technical Selective</b> (300- 400 level)	3			
<b>Technical Selective</b> (300- 400 level)	3				<b>Humanities/Liberal Arts Elective</b>	3			
<b>Free Elective</b>	3				<b>Free Elective</b>	3			
<b>TOTAL CREDIT HOURS</b>	<b>13</b>				<b>TOTAL CREDIT HOURS</b>	<b>14</b>			

\*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 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 04/22/2015

## ET Supplemental Information

All prerequisites must be met

**BOLD indicates courses offered at the South Bend location.**

**\* Indicates approved IUSB course for South Bend location.**

**See the Student Services Coordinator for course availability.**

### WRITTEN COMMUNICATION FOUNDATION SELECTIVE

ENGL 10600 First Year Composition

**\*ENG-W 131 Reading, Writing & Inquiry**

### TECHNICAL SELECTIVES

At least 12 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 32100 Introduction to Nanotechnology

**ECET 38500 Intro to Automotive Electronics**

IT 33000 Industrial Sales & Sales Management

**IT 33200 Purchasing, Inventory, & Warehouse Management**

IT 34500 Automatic Identification & Data Capture

**IT 35100 Adv. Industrial Safety & Health Mngt.**

**IT 38100 Total Productive 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 & 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 & Entrepreneurship**

**OLS 48800 Leadership for Lean Enterprise**

### ADVANCED ORAL COMMUNICAITON SELECTIVE

COM 3200 Small Group Communications OR **\*SPCH-S 229**

**Discussion & Group Methods**

COM 30300 Intercultural Communication OR COM 31400

Adv. Presentational Speaking

**\*SPCH-S 223 Business & Professional Speaking**

**\*SPCH-S380 Nonverbal Communication**

**\*SPCH-S 427 Cross Cultural Communication**

**\*SPCH-S 440 Organizational Communication**

**\*SPCH-S 450 Gender & Communication**

### 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)

### HUMANITIES FOUNDATIONAL SELECTIVE

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

Students attending the South Bend location can go to the following link to review how IU courses transfer to Purdue University to meet University Core Course Requirements: <http://www.purdue.edu/provost/initiatives/curriculum/documents/Retro%20and%20Transfer%20Credit%20Course%20list%205-27-14.pdf>

**\*FINA-F 100 Fundamentals of Studio Drawing**

**\*HIST-H 105 American History I**

**\*HIST-H 106 American History II**

**\*HIST-H 113 History of Western Civilization 1**

**\*HIST-H 114 History of Western Civilization 2**

**\*MUS-M 174 Music for the Listener**

**\*PHIL-P 110 Introduction to Philosophy**

**\*PHIL-P 140 Introduction to Ethics**

### LAB SCIENCE FOUNDATION SELECTIVE

**\*PHYS-P 222-Physics II or PHYS-P 202 – General Physics II**

**\*BIOL-L 100 – Humans & the Biological World**

**\*CHEM-C 101 & 121 – Elementary Chemistry & Lab**

### FREE ELECTIVES

Courses from any discipline at the 20000 – 40000 level.