

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

**Departmental/Program Major Courses (18 credits)**

- \_\_\_\_\_ (3) IT 10400 Industrial Organization
- \_\_\_\_\_ (3) IT 23000 Industrial Supply Chain Management
- \_\_\_\_\_ (3) IT 34200 Introduction to Statistical Quality
- \_\_\_\_\_ (3) IT 38500 Industrial Ergonomics
- \_\_\_\_\_ (3) IT 44200 Production Planning
- \_\_\_\_\_ (3) IT 45000 Production Cost Analysis

**Other Departmental /Program Course Requirements (72 credits)**

- \_\_\_\_\_ (5) MA Foundation Selective<sup>1</sup> (*satisfies Quantitative Reasoning for core*)  
Possible Second Mathematics Foundation Selective if needed<sup>1</sup>
- \_\_\_\_\_ (3) Science Foundation Selective<sup>2</sup> (*satisfies Science for core*)
- \_\_\_\_\_ (3) Science Foundation Selective<sup>2</sup> (*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
- \_\_\_\_\_ (3) ECON 21000 (\*ECON-E 103 or ECON-E 104) (*satisfies Human Culture Behavioral/Social Science for core*)
- \_\_\_\_\_ (3) Humanities Foundation Selective<sup>3</sup> (*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<sup>4</sup> (\*ENG-W 131) (*satisfies Written Communication for core*)
- \_\_\_\_\_ (3) Advanced Oral Communication Selective<sup>5</sup>
- \_\_\_\_\_ (3) Advanced Written Communication Selective<sup>6</sup>
- \_\_\_\_\_ (3) CGT 11000 Technical Graphics Communication
- \_\_\_\_\_ (3) CNIT 13600 (\*CSCI-A 106 – Introduction to Computing) Personal Comp Tech Applications
- \_\_\_\_\_ (3) Industrial Safety Selective<sup>7</sup>
- \_\_\_\_\_ (3) Manufacturing Fundamentals Selective<sup>8</sup>
- \_\_\_\_\_ (3) Math/Computing Selective<sup>9</sup>
- \_\_\_\_\_ (3) Math/Computing Selective<sup>9</sup>
- \_\_\_\_\_ (3) Electricity/Electronics Selective<sup>10</sup>
- \_\_\_\_\_ (3) Materials/Manufacturing Selective<sup>11</sup>
- \_\_\_\_\_ (3) Materials/Manufacturing Selective<sup>11</sup>
- \_\_\_\_\_ (3) Materials/Manufacturing Selective<sup>11</sup>

**Free Electives<sup>12</sup>(15 credits) and Technical Electives<sup>13</sup> (15 credits)**

\_\_\_\_\_ (FE) \_\_\_\_\_ (FE) \_\_\_\_\_ (TE) \_\_\_\_\_ (TE)  
 \_\_\_\_\_ (FE) \_\_\_\_\_ (FE) \_\_\_\_\_ (TE) \_\_\_\_\_ (TE)  
 \_\_\_\_\_ (FE) \_\_\_\_\_ (TE) \_\_\_\_\_ (TE) \_\_\_\_\_ (TE)

**University Core Requirements (<http://www.purdue.edu/provost/initiatives/curriculum/course.html>)**

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	TECH 12000
Human Cultures Behavioral/Social Science	<input type="checkbox"/>	ECON 103 or 104	Written Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	TECH 12000	Oral Communication	<input type="checkbox"/>	SPCH-S 121
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	MATH -
Science Selective	<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**

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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>Advanced Written Communication Selective</b>	3			
CGT Selective - CGT 11000	3				COM 11400 Fundamental of Speech Communication* - <b>SPCH-S 121</b> (IUSB)	3			
<b>MA Foundation Selective*</b>	3				Manufacturing Fundamental Course – <b>IT 21400</b> Intro to Lean Manufacturing	3			
<b>IT 10400</b> Industrial Organization	3				<b>Technical Elective</b>	3			
<b>TECH 12000</b> Design Thinking in Tech.*	3				CNIT 13600 – <b>CSCI-A 106</b> (IUSB)	3			
<b>TOTAL CREDIT HOURS</b>	<b>15</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
PHYS 22000 General Physics I <b>PHYS-P 221 or 201*</b> (IUSB)	5				<b>IT 23000</b> Industrial Supply Chain Mngt	3			
<b>Humanities Foundation Selective*</b>	3				<b>Math/Computing Selective</b>	3			
Industrial Safety Selective- <b>IT 35100 Adv. Industrial Safety &amp; Health Mngt.</b>	3				Materials/Manufacturing Selective - <b>MET 14300</b> – Materials & Processes I OR <b>MET 14400</b> Materials & Processes II	3			
Electricity/Electronics Selective - <b>ECET 22400</b> Electronic Systems	3				<b>Technical Elective</b>	3			
<b>Free Elective</b>	3				<b>ECON-E 103</b> Intro to Microeconomics or <b>ECON-E 104</b> Intro to Macroeconomics	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
Materials/Manufacturing Selective - <b>MET 24500</b> – Manufacturing Systems	3				<b>IT 38500</b> Industrial Ergonomics (Prereq: MA 15800)	3			
<b>Math/Computing Selective</b>	3				<b>Science Foundation Selective</b>	3			
<b>IT 34200</b> Introduction to Statistical Quality (Prereq: MA 15800)	3				<b>Technical Elective</b> – 300 OR 400 level	3			
<b>Free Elective</b>	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>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>IT 44200</b> Production Planning	3				<b>Technical Elective</b> – 300 OR 400 level	3			
<b>IT 45000</b> Production Cost Analysis	3				<b>Science Foundation Selective</b>	3			
<b>Technical Elective</b> – 300 or 400 level	3				<b>Free Elective</b>	3			
Materials/Manufacturing Selective - <b>MFET 30000</b> – Application Automation Manufacturing (Prereqs: MET 24500 & ECET 22400)	3				<b>Free Elective</b>	3			
<b>Free Elective</b>	3								
<b>TOTAL CREDIT HOURS</b>	<b>15</b>				<b>TOTAL CREDIT HOURS</b>	<b>12</b>			

\*Fulfills University Core Requirement

1. 120 Credits listed above are required for the IT-GEN 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

See next page for all supplemental information

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\*\*\*\*\* Updated 04/22/2015

# IT-GEN 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**

## <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  
**MA 15800 Precalculus** – Functions & Trig & 2 cr. Free Elective  
MA 15910 Intro to Calculus & 2 cr. of 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 22100 Calculus for Technology & 2cr. Free Elective  
MA 22300 Intro Analysis I & 2cr. Free Elective  
**\*MATH-M 125 Precalculus & \*MATH-M 126 Trigonometry**  
**\*MATH-M 115 Precalculus & Trigonometry**  
**\*MATH-M 119 Brief Survey of Calculus**

## <sup>2</sup>Science Foundation Selective (6 credits)

See approved UCC Science 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>

**\*PHYS-P 202 General Physics 2 OR \*PHYS-P 222 Physics 2**

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

**\*BIOL-N 190 The Natural World**

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

**\*CHEM-N 190 The Natural World**

**\*PHYS-N 190 The Natural World**

**\*PHSL-P 130 Human Biology** (cannot take both BIOL-L 100 and PHSL-P 130)

**\*GEOL-G 111 Physical Geology**

**\*GEOL-G 112 Historical Geology**

**\*GEOL-G 219 Meteorology**

**\*GEOL-N 190 The Natural World**

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

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**

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

ENGL 10600 First-Year Composition

ENGL 10800 Accelerated First-Year Composition

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

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

COM 31400 Advanced Presentational Speaking

COM 31500 Speech Communication of Technical Information

COM 31800 Principles of Persuasion

COM 32000 Small Group Communication (cannot take 32000 and SPCH-S 229)

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

**\*SPCH-S 229 Discussion & Group Methods** (cannot take 229 and COM 32000)

**\*SPCH-S 380 Nonverbal Communication**

COM 32400 Intro to Organizational Communication

COM 32500 Interviewing Principles and Practice

COM 41500 Discussion of Technical Problems

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

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

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

## <sup>6</sup>Advanced Written Communication Selective (3 credits)

ENGL 30400 Advanced Composition

ENGL 30600 Intro Professional Writing

**\*ENG-W 203 Creative Writing**

**\*ENG-W 231 Prof Writing Skills**

ENGL 42000 Business Writing

ENGL 42100 Technical Writing

**\*ENG-W 232 Intro to Business Writing**

## <sup>7</sup>Industrial Safety Selective (3 credits)

IT 28100 Industrial Safety

**IT 35100 Advanced Industrial Safety and Health Management**

<sup>8</sup>Manufacturing Fundamentals Selective (3 credits)

IT 11400 Problem-Solving in Manufacturing

**IT 21400 Introduction to Lean Manufacturing**

<sup>9</sup>Math/Computing Selective (6 credits)

Any math (MA) or computer science (CS) course not already required/being used on the plan of study

**MA 16010 Applied Calculus I** (prereq MA 15800)

**MA 16021 Applied Calculus II & Differential Equations** (prereq MA 16010)

**Computer and Information Technology (CNIT)**

**\*Informatics (INFO)**

**\*Computer Science (CSCI)**

**\*MATH-M 118**

**\*MATH-M 119 (cannot take M119 and MA 16010)**

<sup>10</sup>Electricity/Electronics Selective (3 credits)

ECET 21400 Electricity Fundamentals

**ECET 22400 Electronic Systems**

<sup>11</sup>Materials/Manufacturing Selective (9 credits)

MET 14100 Materials I

MET 24200 Manufacturing Processes II

**MFET 30000 Applications of Automation in Manufacturing**

**MET 14300 Materials and Processes I**

**MET 24500 Manufacturing Systems**

**MET 14400 Materials and Processes II**

MFET 24300 Automated Manufacturing I

<sup>12</sup>Free Elective (15 credits)

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

<sup>13</sup>Technical Elective (15 credits)

Any non-required College of Technology or Engineering (ENGR) course

-Two courses can be 100 or 200 level

-Three courses must be 300 or 400 level

CGT 22600 Introduction to Constraint-Based Modeling

MET 10200 Production Design & Specifications

MET 11100 Applied Statics

MET 14300 Materials & Processes I

MET 14400 Materials & Processes II

**OLS courses** – must have approval of academic advisor BEFORE taking course

**ECET 30201 Introduction to Industrial Controls**

**ECET 38500 Introduction to Automotive Electronics**

IT 33000 Industrial Sales & Sales Management

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

IT 34500 Automatic Identification & Data Capture

**IT 38100 Total Productive Maintenance**

IT 43400 Global Transportation & Logistics Management

IT 44500 Problem-solving w/Automatic Data Collection

**IT 44600 Six Sigma Quality**

**IT 48300 Facility Design for Lean Manufacturing**

**MET 30200 CAD and the Enterprise**

**MET 38200 Controls & Instrument Automation**

**MET 34600 Advanced Materials in Manufacturing**

**MET 45100 Manufacturing Quality Control**

**OLS courses** – must have approval of academic advisor BEFORE taking course