

**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> (**\*MATH-M 125 + \*MATH-M 126**) (*satisfies Quantitative Reasoning for core*) (See Supplemental Information)  
Possible Second Mathematics Foundation Selective if needed<sup>1</sup> (See Supplemental Information)
- \_\_\_\_\_ (3) Science Foundation Selective<sup>2</sup> (*satisfies Science for core*) (See Supplemental Information)
- \_\_\_\_\_ (3) Science Foundation Selective<sup>2</sup> (*satisfies Science for core*) (See Supplemental Information)
- \_\_\_\_\_ (4) PHYS 21800 General Physics (**\*PHYS-P 201, 5 cr**)
- \_\_\_\_\_ (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
- \_\_\_\_\_ (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*) (See Supplemental Information)
- \_\_\_\_\_ (3) COM 11400 (**\*SPCH-S 121**) (*satisfies Oral Communication for core*)
- \_\_\_\_\_ (3) Written Communication Foundation Selective<sup>4</sup> (**\*ENG-W 131**) (*satisfies Written Communication for core*)  
(See Supplemental Information)
- \_\_\_\_\_ (3) Advanced Oral Communication Selective<sup>5</sup> (See Supplemental Information)
- \_\_\_\_\_ (3) Advanced Written Communication Selective<sup>6</sup> (See Supplemental Information)
- \_\_\_\_\_ (3) CGT 11000 Technical Graphics Communication
- \_\_\_\_\_ (3) CNIT 13600 Personal Computing Technology and Applications (**\*CSCI-A 110**)
- \_\_\_\_\_ (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)** (See Supplemental Information)

- |                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|
| _____ (FE) _____ | _____ (FE) _____ | _____ (TE) _____ | _____ (TE) _____ |
| _____ (FE) _____ | _____ (FE) _____ | _____ (TE) _____ | _____ (TE) _____ |
| _____ (FE) _____ | _____ (FE) _____ | _____ (TE) _____ | _____ (TE) _____ |

**\*Denotes Richmond Campus Course Offering**

**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 21000 <b>(*ECON-E 103 or ECON-E 104)</b>	Written Communication	<input type="checkbox"/>	<b>(*ENG-W 131)</b>
Information Literacy	<input type="checkbox"/>	TECH 12000	Oral Communication	<input type="checkbox"/>	COM 11400 <b>(*SPCH-S 121)</b>
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	MATH - <b>(*MATH-M 125 + 126)</b>
Science Selective	<input type="checkbox"/>	_____			

\*\*\*\*\*  
**The student is ultimately responsible for knowing and completing all degree requirements.**  
**myPurduePlan is the knowledge source for specific requirements and completion.**  
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**Suggested Arrangement of Courses:**

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
3	IT 10400		3	Math/Computing Selective <sup>9</sup>	
3	TECH 12000*		3	Materials/Manufacturing Selective <sup>11</sup> MET 14300	
3	CGT 11000		3	COM 11400* <b>SPCH-S 121 (IUE)</b>	
5	MA Foundation Selective <sup>1*</sup> <b>MATH-M 125 + M 126 (IUE)</b>	Placement	3	CNIT 13600 <b>CSCI-A 110 (IUE)</b>	
3	Written Communication Foundation Selective <sup>4*</sup> <b>ENG-W 131 (IUE)</b>	Placement	3	Manufacturing Fundamentals Selective <sup>8</sup> IT 11400 or IT 21400	
<b>17</b>			<b>15</b>		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
4	PHYS 21800 or PHYS 22000 <b>PHYS-P 201 [5 cr.] (IUE)</b>	<b>MATH-M 125 + MATH-M 126 (IUE)</b>	3	Humanities Foundation Selective <sup>3*</sup>	
3	ECON 21000* <b>ECON-E 103 or ECON-E 104 (IUE)</b>		3	Advanced Written Communication Selective <sup>6</sup> ENGL 42100	<b>ENG-W 131 (IUE)</b>
3	IT 23000		3	Math/Computing Selective <sup>9</sup>	
3	Materials/Manufacturing Selective <sup>11</sup> MET 14400		3	Electricity/Electronics Selective <sup>10</sup> ECET 22400	
			3	Technical Elective <sup>13</sup>	
<b>13</b>			<b>15</b>		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	IT 34200	<b>MATH-M 125 + MATH-M 126 (IUE)</b>	3	IT 38500	<b>MATH-M 125 + MATH-M 126 (IUE)</b>
3	Technical Elective <sup>13</sup>		3	Advanced Oral Communication Selective <sup>5</sup>	
3	Science Foundation Selective <sup>2*</sup>		3	Free Elective <sup>12</sup>	
3	Industrial Safety Selective <sup>7</sup> IT 35100		3	Free Elective <sup>12</sup>	
3	Materials/Manufacturing Selective <sup>11</sup> MET 24500		3	Technical Elective <sup>13</sup>	
<b>15</b>			<b>15</b>		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	IT 44200	IT 11400 or IT 21400, MET 24500	3	IT 45000	<b>MATH-M 125 + MATH-M 126 (IUE), Jr/Sr Status</b>
3	Technical Elective <sup>13</sup>		3	TECH 33000	TECH 12000
3	Science Foundation Selective <sup>2*</sup>		3	Technical Elective <sup>13</sup>	
3	TECH 32000	TECH 12000	3	Free Elective <sup>12</sup>	
3	Free Elective <sup>12</sup>		3	Free Elective <sup>12</sup>	
<b>15</b>			<b>15</b>		

\*Fulfills University Core

- 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) ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, I AND IF).

See next page for all supplemental information

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# IT-GEN Supplemental Information

All prerequisites must be met

**Bold indicates courses offered at Richmond Campus.**

**\*Indicates IUE courses for Richmond Campus only.**

See 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 and Trigonometry**

MA 15900 Precalculus

MA 15910 Intro to Calculus

**MA 16010 Applied Calculus I**

MA 16100 Plane Analytic Geometry & Calculus I

MA 16500 Integrated Calculus Analysis Geometry I

MA 22100 Calculus for Technology

MA 22300 Intro Analysis I

**\*MATH-M 125 + MATH-M 126**

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

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

**\*BIOL-L 100, \*BIOL-L 101 + \*BIOL-L 102**

**\*CHEM-C 125 + \*CHEM-C 105, \*CHEM-C 126 + \*CHEM-C 106**

**\*GEOL-G 111**

**\*PHYS-P 202**

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

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**

**\*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**

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

ENGL 10600 First-Year Composition

**\*ENG-W 131**

ENGL 10800 Accelerated First-Year Composition

## **<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

COM 32400 Intro to Organizational Communication

COM 32500 Interviewing Principles and Practice

COM 41500 Discussion of Technical Problems

**\*300 or 400-level courses in \*SPCH-S or \*CMCL-C**

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

ENGL 30400 Advanced Composition

ENGL 30600 Intro Professional Writing

ENGL 42000 Business Writing

**ENGL 42100 Technical 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.

**\*Any \*MATH-M or \*MATH-K course not already required/being used on the plan of study.**

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

ECET 21400 Electricity Fundamentals

**ECET 22400 Electronic Systems**

**ECET 23300 Electronics & Industrial Cntrls**

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

MET 14100 Materials I

**MET 14300 Materials and Processes I**

**MET 14400 Materials and Processes II**

MET 24200 Manufacturing Processes II

**MET 24500 Manufacturing Systems**

MFET 24300 Automated Manufacturing I

MFET 30000 Applications of Automation in Manufacturing

## **<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

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See Student Services Coordinator for course availability.

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

Any non-required **College of Technology** or Engineering (ENGR) course not already required/being used on the plan of study.

-At least two courses must be 300 or 400 level (to ensure the university requirement of 32 credit hours of upper-level courses).

-Must meet the pre-requisite for the course.

#### **Computer Graphics Technology**

**CGT 10101 Foundations of Computer Graphics Technology**

**CGT 11100 Designing for Visualization and Communication**

**CGT 11600 Geometric Modeling for Visualization and Communication**

**CGT 11800 Fundamentals of Imaging Technology**

**CGT 14100 Internet Foundations, Technologies and Development**

**CGT 22600 Introduction to Constraint Based Modeling**

**CGT 24100 Introduction to Computer Animation**

**CGT 25600 Human Computer Interface Theory and Design**

**CGT 30800 Prepress Production And Design**

**CGT 35300 Principles of Interactive and Dynamic Media**

**CGT 35600 Web Programming, Development and Data Integration**

**CGT 39000 Digital Photography**

**CGT 45600 Adv. Web Programming, Development And Data Integration**

#### **Computer & Information Technology**

**CNIT 13600 Personal Computing Technology and Applications**

**CNIT 15500 Introduction to Object Oriented Programming**

**CNIT 17500 Visual Programming**

**CNIT 17600 Information Technology Architectures**

**CNIT 18000 Introduction to Systems Development**

#### **Electrical & Computer Engineering Technology**

**ECET 23300 Electronics and Industrial Controls**

#### **Industrial Technology**

**IT 11400 Problem Solving in Manufacturing**

**IT 21400 Introduction to Lean Manufacturing**

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

**IT 43400 Global Transportation And Logistics Management**

**IT 44600 Six Sigma Quality**

**IT 48300 Facility Design for Lean Manufacturing**

#### **Mechanical Engineering Technology**

**MET 10200 Production Design and Specifications**

**MET 11100 Applied Statics**

**MET 16200 Computational Analysis Tools in MET**

**MET 21100 Applied Strength of Materials**

**MET 21300 Dynamics**

**MET 21400 Machine Elements**

**MET 22000 Heat And Power**

**MET 23000 Fluid Power**

#### **Organizational Leadership & Supervision**

– Must seek approval from advisor before registering for an OLS course

**OLS 25200 Human Relations in Organizations**

**OLS 27400 Applied Leadership**

**OLS 28400 Leadership Principles**

**OLS 34600 Critical Thinking and Ethics**

**OLS 35100 Innovation & Entrepreneurship**

**OLS 36400 Professional Development Program**

**OLS 37500 Training Methods**

**OLS 37600 Human Resource Issues**

**OLS 38600 Leadership for Organizational Change**

**OLS 38800 Leadership through Teams**

**OLS 45000 Project Management for Organizational and Human Resource Development**

**OLS 45400 Gender & Diversity in Management**

**OLS 47700 Conflict Management**

**OLS 47900 Staffing Organizations**

**OLS 48400 Leadership Strategies for Quality and Productivity**