PURDUE UNIVERSITY

Industrial Technology General Option

Purdue Polytechnic Institute

TTLI-GEN-BS
120 Credits for graduation

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[1] **(*satisfies Quantitative Reasoning* for core)** (See Supplemental Information)
_____ Possible Second Mathematics Foundation Selective if needed[1] (See Supplemental Information)
_____ (3) Science Foundation Selective[2] ***(satisfies Science for core)*** (See Supplemental Information)
_____ (3) Science Foundation Selective[2] ***(satisfies Science for core)*** (See Supplemental Information)
_____ (4) PHYS 21800 General Physics
_____ (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 ***(satisfies Human Culture Behavioral/Social Science for core)*** (*ECON E201)
_____ (3) Humanities Foundation Selective[3] ***(satisfies Human Cultures Humanities for core)*** (See Supplemental Information)
_____ (3) COM 11400 ***(satisfies Oral Communication for core)*** (*COMM R110)
_____ (3) Written Communication Foundation Selective[4] ***(satisfies Written Communication for core)*** (See Supplemental Information) (*ENG W131)
_____ (3) Advanced Oral Communication Selective[5] (See Supplemental Information)
_____ (3) Advanced Written Communication Selective[6] (See Supplemental Information)
_____ (3) CGT 11000 Technical Graphics Communication
_____ (3) CNIT 13600 (*CNIT 180)
_____ (3) Industrial Safety Selective[7] (*IT 351)
_____ (3) Manufacturing Fundamentals Selective[8] (*IT 214)
_____ (3) Math/Computing Selective[9]
_____ (3) Math/Computing Selective[9]
_____ (3) Electricity/Electronics Selective[10] (*ECET 224)
_____ (3) Materials/Manufacturing Selective[11] (*MET 143)
_____ (3) Materials/Manufacturing Selective[11] (*MET 144)
_____ (3) Materials/Manufacturing Selective[11] (*MET 245)

Free Electives[12] (15 credits) and Technical Electives[13] (15 credits) (See Supplemental Information)

_____ (FE) _____ _____ (FE) _____ _____ (TE) _____ _____ (TE) _____
_____ (FE) _____ _____ (FE) _____ _____ (TE) _____
_____ (FE) _____ _____ (TE) _____ _____ (TE) _____

***Denotes Columbus Campus Course Offering**

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

Human Cultures Humanities	☐		*Science, Technology & Society Selective*	☐	**TECH 12000**
Human Cultures Behavioral/Social Science	☐	**ECON 21000 *ECON E201**	*Written Communication*	☐	***ENG W131**
Information Literacy	☐	**TECH 12000**	*Oral Communication*	☐	**COM 11400 *COMM R110**
Science Selective	☐		*Quantitative Reasoning*	☐	**MATH -**
Science Selective	☐				

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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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Industrial Technology General Option

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
3	ECON 21000* **ECON E201 (IUPUC**)		3	**IT 10400**	
3	**TECH 12000***		2/3	Possible 2nd MA Foundation Selective or 2 Fr. Credits FREE	
3	MA Foundation Selective[1]* MA 158		3	COM 11400* **COMM R110 (IUPUC)**	
4	**PHYS 21800** or PHYS 22000	MA Selective	3	CNIT 13600 or **CNIT 180**	
3	Written Communication Foundation Selective[4]* **ENG W131 (IUPUC)**		3	Manufacturing Fundamentals Selective[8]	
16			**14/15**		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	Science Foundation Selective[2]*		3-5	Science Foundation Selective Lab[2]*	
3	**IT 23000**		3	Math/Computing Selective[9]	
3	CGT 11000		3	Electricity/Electronics Selective[10] **ECET 224**	
3	Materials/Manufacturing Selective[11] **MET 143**		3	Materials/Manufacturing Selective[11] **MET 144**	
3	Math/Computing Selective[9]		3	Technical Elective[13]	
15			**15-17**		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	IT 38500	MA Selective	3	**IT 34200**	MA Selective
3	**TECH 32000**	TECH 12000	3	**TECH 33000**	TECH 12000
3	Industrial Safety Selective[7] **IT 351**		3	Technical Elective[13]	
3	Materials/Manufacturing Selective[11] **MET 245**		3	Technical Elective[13]	
3	Advanced Oral Communication Selective[5] **COM 320**		3	Advanced Written Communication Selective[6] **ENGL 241**	
15			**15**		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	**IT 44200**		3	**IT 45000**	MA Selective
3	Technical Elective[13]		3	Free Elective[12]	
3	Technical Elective[13]		3	Free Elective[12]	
3	Free Elective[12]		3	Free Elective[12]	
3	Free Elective[12]		3	Humanities Foundation Selective[3]*	
15			**15**		

***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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Revised 04/22/2015 (effective Fall 2015)

IT-GEN Supplemental Information

All prerequisites must be met

BOLD indicates courses offered at Columbus Campus.
***Indicates IUPUC course offering for Columbus Campus only.**
See Student Service Coordinator for course availability.

[1]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 221 Calc for Tech I & 2cr. Free Elective**
***MATH 222 Calc for Tech II& 2cr. Free Elective**

[2]Science Foundation Selective (6 credits)

See approved UCC Science list at: http://www.purdue.edu/provost/initiatives/curriculum/course.html
Students of Columbus location see the following link to review how IU courses transfer to Purdue Core:
http://www.purdue.edu/provost/initiatives/curriculum/documents/Retro%20and%20Transfer%20Credit%20Course%20list%205-27-14.pdf

***ANTH A103**
***BIOL N108**
***BIOL K101 + K103**
BIOL 11000 Fundamentals of Biology I*
BIOL 11100 Fundamentals of Biology II*
BIOL 13500 First Year Biology Laboratory*
BIOL 14501 First Year Biology Laboratory with Neuro Research Project*
BIOL 14502 First Year Biology Laboratory with Micro Research Project*
BIOL 14600 Introduction to Biology*
BIOL 20300 Human Anatomy and Physiology*
BIOL 20400 Human Anatomy and Physiology*
BIOL 20500 Biology for Elementary Teachers*
BIOL 20600 Biology for Elementary Teachers*
BTNY 11000 Introduction to Plant Science*
***CHEM C105 + C125**
***CHEM C106 + C126**
CHM 11100 General Chemistry*
CHM 11200 General Chemistry*
CHM 11500 General Chemistry*
CHM 11600 General Chemistry*
CHM 12500 Introduction to Chemistry I*
CHM 12600 Introduction to Chemistry II*
CHM 13600 General Chemistry Honors*
CHM 20000 Fundamentals of Chemistry*
CHM 12901 General Chemistry with Biological Focus*
EAPS 10200 Earth Science for Elementary Education*
EAPS 10900 The Dynamic Earth*
***GEOL G109**
***GEOL G110 + G120**
HORT 10100 Fundamentals of Horticulture*
***PHYS 152**
PHYS 17200 Modern Mechanics*
PHYS 21800 General Physics*
PHYS 21900 General Physics II*
PHYS 22000 General Physics*
PHYS 22100 General Physics*
***PHYS 251**
PHYS 27200 Electric and Magnetic Interactions*

[3]Humanities Foundational Selective (3 credits)

See approved UCC Humanities list at: http://www.purdue.edu/provost/initiatives/curriculum/course.html
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***HER H100**
***HER H102**
***ENG L204**
***HIST H105**
***HIST H106**
***HIST H113**
***HIST H114**
***PHIL P110**
***PHIL P120**

[4]Written Communication Foundation Selective (minimum 3 credits)

ENGL 10600 First-Year Composition
ENGL 10800 Accelerated First-Year Composition
***ENG W131**

[5]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
***COMM C223 Business & Professional Com**

[6]Advanced Written Communication Selective (3 credits)

ENGL 30400 Advanced Composition
ENGL 30600 Intro Professional Writing
ENGL 42000 Business Writing
ENGL 42100 Technical Writing
***ENG W231 Professional Writing Skills**

[7]Industrial Safety Selective (3 credits)
IT 28100 Industrial Safety
IT 35100 Advanced Industrial Safety and Health Management

[8]Manufacturing Fundamentals Selective (3 credits)
IT 11400 Problem-Solving in Manufacturing
IT 21400 Introduction to Lean Manufacturing

[9]Math/Computing Selective (6 credits)
Any math (MA) or computer science (CS) course not already required/being used on the plan of study.

[10]Electricity/Electronics Selective (3 credits)
ECET 21400 Electricity Fundamentals
ECET 22400 Electronic Systems

[11]Materials/Manufacturing Selective (9 credits)
MET 14100 Materials I
MET 14300 Materials and Processes I
MET 14400 Materials and Processes II
MET 245 Manufacturing Systems
MFET 24300 Automated Manufacturing I
MFET 30000 Applications of Automation in Manufacturing

[12]Free Elective (15 credits)
Any non-remedial course offered for credit at the University not already required/being used on the plan of study.

[13]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
MET 30200 CAD and the Enterprise
MET 38200 Controls & Instrument Automation
MET 34600 Advanced Materials in Manufacturing
MET 45100 Manufacturing Quality Control
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
OLS courses – must have approval of academic advisor BEFORE taking course