PURDUE UNIVERSITY

School of Engineering Technology-Richmond
Major: Industrial Engineering Technology (IET)
TIET-BS Suggested Arrangement of Courses

Program Code: PIIET-IET-BS
Major Code: TIET
Catalog Term: 202110

Accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org

Fall 1st Year	CR	GR	Fulfilled by	Spring 1st Year	CR	GR	Fulfilled by
ENGT 18000 ENG Tech Foundations	3			MET 14300 Materials & Process I or MET 14400 Materials & Process II [14Materials & Processes Selective]	3		
ENGT 18100 ENG Tech Applications	1						
TECH 12000 Design Thinking in Tech.*	3			TLI 11200 Foundation of Org Leadership	3		
MA 15800 Pre-Calculus [3Mathematics Selective*]	3			SCLA 10200 Tran. Texts, Crit. Think. II [7Oral Communication Selective*]	3		
SCLA 10100 Tran. Texts, Crit. Think. I [8Written Communication Selective*]	3			[4Behavioral/Social Science Selective*]	3		
CGT 16300 Graph. Comm & Spat. Anlys. [15Technical Graphics Selective]	2			[5Humanities Selective*]	3		
TOTAL CREDIT HOURS	**15**			**TOTAL CREDIT HOURS**	**15**		

Fall 2nd Year	CR	GR	Fulfilled by	Spring 2nd Year	CR	GR	Fulfilled by
IET 21400 Intro to Supply Chain	3			TLI 29900 Tech & Culture thru History [12History of Science & Tech Selective]	3		
TLI 21300 Project Management	3			ECON 21000 Principles of Economics	3		
ECET 22400 Electronic Systems (Pre-req: Math Selective)	3			STAT 30100 Elem Statistical Methods	3		
MET 24500 Manufacturing Systems (Pre-req: Materials & Processes Selective & Technical Graphics Selective)	3			[17Free Elective]	2		
PHYS 22000 General Physics I*	4			[6Lab Science Selective*]	3		
TOTAL CREDIT HOURS	**16**			**TOTAL CREDIT HOURS**	**14**		

Fall 3rd Year	CR	GR	Fulfilled by	Spring 3rd Year	CR	GR	Fulfilled by
IET 33520 Human Factor for Tech Sys	3			IET 31300 AIDC Tech Integration	3		
IET 31600 Statistical Quality Control (Pre-req: Math Selective)	3			IET 43640 Lean Six Sigma (Pre-req: IET 31600)	3		
IET 33400 Economic Analysis for Tech Sys (Pre-req: Math Selective)	3			IET 33620 Total Productive Maintenance (Pre-req: PHYS 22000, IET 31600 or STAT 30100)	3		
CNIT 15500 Intro to Obj-Oriented Prog [11Computer Programming Selective]	3			IET 43530 Operations Plan & Mgmt (Pre-req: Math Selective)	3		
[16Technical Elective]	3			MET 28400 Intro to Industrial Controls [13Manufacturing Automation Selective]	3		
TOTAL CREDIT HOURS	**15**			**TOTAL CREDIT HOURS**	**15**		

Fall 4th Year	CR	GR	Fulfilled by	Spring 4th Year	CR	GR	Fulfilled by
ENGT 48000 ET Capstone I [Pre-req: JR06 Standing, MET 24500, IET 43530 (concurrent), IET 43640 (concurrent)]	3			ENGT 48100 ET Capstone II (Pre-req: ENGT 480000)	3		
IET 43540 Facilities Plan & Mat Handling (Pre-req: Materials & Processes Selective & IET 43530)	3			IET 43630 Design of Experiments (Pre-req: IET 31600 or STAT 30100)	3		
[16Technical Elective]	3			[17Free Elective]	3		
[16Technical Elective]	3			[17Free Elective]	3		
ENGL 42100 Technical Writing [10Advanced Written Comm Selective]	3			COM 32000 Small Group Communication [9Advanced Oral Comm Selective]	3		
TOTAL CREDIT HOURS	**15**			**TOTAL CREDIT HOURS**	**15**		

Refer to the 2020-21 IET Supplemental Instruction form for optional courses to complete selectives and pre-requisites.

1. 120 semester credits and a 2.0 Graduation GPA are required for the Bachelor of Science degree.
2. Students must earn a "D-" or better in all courses unless otherwise noted.
3. Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.
4. 32 credit hours of 300-level or higher courses must be completed at Purdue University.
5. **Complete a 1Professional Requirement.** ☐   **Complete a 2Globalization/Intercultural Requirement**. ☐

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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Bold indicates courses offered at Richmond location.   **See Student Affairs Administrator for course availability.**

[1]Professional Experience (0 credits)
Please see your academic advisor for further details.

[2]Globalization Experience (0 credits)
    Minimum requirements:
1. Complete Intercultural Development Inventory (IDI) Pre and Post Tests
2. Complete Beliefs, Events, and Values Inventory (BEVI) Pre and Post Tests
3. Complete an Intercultural Knowledge and Effectiveness (IKE) component
4. Complete TLI-Approved Global Course, Faculty-Led Study Abroad, International Internship, or International Capstone/Collaborative Project

Applies to any student	For students who are not within the demographic of the course
ANSC 38100 Leadership for a Diverse workplace	AAS 27100 Intro to African American Studies
ANTH 20500 Human cultural Diversity	ANTH 37900 Native American Cultures
ANTH 21200 Culture, Food and Health	ASAM 24000 Intro to Asian American Studies
ANTH 23000 Gender Across Cultures	ARAB 28000 Arabic culture
ANTH 34000 Global Perspectives on Health	COM 38000 Sociolinguistic Study of African American English
AT 22300 Human Factors for Flight Crews	HDFS 28000 Diversity in Individual and Family Life
CGT 17208 Human Centered Design & Development Studio	HIST 36600 Hispanic Heritage of the USA
COM 22400 Communicating in the Global Workplace	HIST 37600 History of Indiana
COM 32000 Small Group Communication	HIST 37700 History & Culture of Native America
COM 41200 Theories of Human interaction	HIST 46900 Black Civil Rights Movement
ECET 38001 Global Professional Issues in ET	HIST 47900 Amer. Represent. of Middle East & North Africa
ENGL 41400 Literature & Culture	HIST 49900 History of Sexual Regulation in the United States
EDPS 31600 Collaborative Leadership: Cross-cultural Stgs	POL 22200 Women, Politics & Public Policy
HIST 19500: Historical Research & Film	POL 32600 Black Political Participation in America
HIST 33805 History of Human Rights	POL 36000 Women and the Law
HTM 37000 Sustainable Tourism and Responsible Travel	SOC 31000 Racial and Ethnic Diversity
HTM 37200: Global Tourism Geography	WGSS 28200 Intro to LGBT Studies
PHIL 43500 Philosophy of Mind	WGSS 38300 Women and Work
POL 23500 Rich and Poor Nations	
POL 42900 Variable Title: It's a Complex World	
SOC 10000 Intro to Sociology	
SOC 33900 Introduction to Sociology of Developing Nations	
TECH 33000 Technology and the Global Society	
WGSS 38000 Gender and Multiculturalism	

[3]**Mathematics Selective (3 credits)**

MA 15800 Precalculus- Functions and Trigonometry	MA 16200 Plane Analytic Geometry & Calculus II
MA 16010 Applied Calculus I	MA 16500 Analytic Geometry & Calculus I
MA 16100 Plane Analytic Geometry & Calculus I	MA 16600 Analytic Geometry & Calculus II

[4]**Behavioral/Social Science and [5]Humanities Selectives (3 credits each)**
See respective approved list at: http://www.purdue.edu/provost/initiatives/curriculum/course.html

[6]**Lab Science Selective (3 credits)**
Must be at least a 3 credit hour lab based course from the approved UCC Science list:http://www.purdue.edu/provost/initiatives/curriculum/course.html

[7]**Oral Communication Selective (3 credits)**

COM 11400 Fundamentals of Speech Comm	**SCLA 10200 Trans. Texts, Critical Thinking & Comm II: Modern World**

[8]**Written Communication Selective (3 credits)**

ENGL 10600 First-Year Composition	**SCLA 10100 Trans. Texts, Critical Thinking & Comm I: Antiquity to Mod**
ENGL 10800 Accelerated First-Year Composition	

[9]**Advanced Oral Communication Selective (3 credits)**

COM 31400 Advanced Presentational Speaking	COM 32400 Introduction to Org Communication
COM 31500 Speech Comm Of Tech Information	COM 32500 Interviewing: Principles and Practice
COM 31800 Principles of Persuasion	COM 41500 Discussion of Technical Problems
COM 32000 Small Group Communication	COM 43500 Comm And Emerging Technologies

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[10]Advanced Written Communication Selective (3 credits)

ENGL 30400 Advanced Composition   ENGL 42000 Business Writing
ENGL 30600 Intro to Professional Writing   **ENGL 42100 Technical Writing**
ENGL 41900 Multimedia Writing   ENGL 42400 Writing for High Tech Industries

[11]Computer Programming Selective (3 credits)

CNIT 10500 Introduction to C Programming   CS 15900 C Programming
CNIT 15500 Intro to Object-Oriented Programming   CS 17700 Programming with Multimedia Objects
CNIT 15501 Introduction to Software Development Concepts   CS 18000 Problem Solving and Object-Oriented Programming
CNIT 17500 Visual Programming   MET 16400 Computing in Engineering Technology
CS 15800 C Programming

[12]History of Science and Technology Selective (3 credits)

HIST 30305 Kitchens Cooking & Food Mod Amer   HIST 38001 History of United States Agriculture
HIST 30605 Technology and War in U.S. History   HIST 38400 History of Aviation
HIST 31405 Tech & Gender in American History   **HIST 38700 History of The Space Age**
HIST 31505 American Beauty   HIST 49400 Science & Society American Civ
HIST 33000 History of The Brit Empire & Commonwealth, 1783 To 1960   POL 42900 Contemporary Political Problems
HIST 33400 Sci & Society in West Civ II   **TLI 29900 Tech & Culture through History**
HIST 35000 Sci & Society in 20th Century World

[13]Manufacturing Automation Selective (3 credits)

MET 28400 Introduction to Industrial Controls   **MFET 34400 Automated Manufacturing Processes**
MFET 30000 Applications of Automation in Manufacturing

[14]Materials & Processes Selective

MET 14300 Materials & Processes I   **MET 14400 Materials & Processes II**

[15]Technical Graphics Selective (2 credits)

CGT 11000 Technical Graphics Communications   ENGT 10500 Industrial Technology Introduction to Design
CGT 16300 Graphical Communication and Spatial Analysis

[16]Technical Elective (9 credits)

Any **Polytechnic Institute** or Engineering (ENGR or EPCS) **course not already required on the plan of study.**
ENTR 20000 Introduction to Entrepreneurship and Innovation   ENTR 31500 Business Planning for Social Entrepreneurship
ENTR 31000 Marketing and Management for New Ventures

[17]Free Electives (8 credits)

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