

Industrial Engineering Technology (TIET)

Purdue Polytechnic Institute

School of Engineering Technology

Advising Worksheet

Disclaimer: The Purdue West Lafayette catalog is considered the source for academic and programmatic requirements for students entering programs during the corresponding Fall, Spring, and Summer semesters. The Advising Worksheet assists students in the development of an individualized 8-semester plan. Students are encouraged to use this worksheet and MyPurduePlan* (the online degree auditing tool) as they work with their academic advisor toward the completion of all their degree requirements.

Notification: Each student is ultimately responsible for knowing, monitoring, and completing all degree requirements.

An undergraduate degree in the Purdue Polytechnic Institute requires completion of the following degree requirements.

University Degree Requirements		
Minimum 2.0 Cumulative GPA	Minimum 120 Credits that fulfill degree requirements	32 Residency Credits (30000-level and above) at a Purdue University Campus
University Core Curriculum **		
https://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html		
<ul style="list-style-type: none"> • Human Cultures: Behavioral/Social Science • Human Cultures: Humanities • Information Literacy • Oral Communication 	<ul style="list-style-type: none"> • Quantitative Reasoning • Science • Science, Technology & Society Selective • Written Communication 	
Civics Literacy Proficiency		
https://www.purdue.edu/provost/about/provostInitiatives/civics/		
Required Major Program Courses (see following pages)		
Departmental specific requirement <ul style="list-style-type: none"> • 32 credits of upper division courses (30000 level or higher) must be taken at Purdue University, West Lafayette. • ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, I AND IF). • Minimum 2.0 cumulative GPA 		
Pass/No Pass option		
<ul style="list-style-type: none"> • TIET majors allow Pass/No Pass grading for (Free) electives only all other degree requirements must be taken for a grade. 		
Non-course/Non-credit Requirements		
<ul style="list-style-type: none"> • Complete a Professional Requirement. * Complete an Intercultural Requirement. 		

* This audit is not your academic transcript and it is not official notification of completion of degree or certificate requirements.

** University Core Curriculum Outcomes may be met through completions of the Purdue Polytechnic Institute curriculum. Students should Consult with their academic advisors and MyPurdue Plan for course selections.

School of Engineering Technology – Industrial Engineering Technology (TIET)
 Fall 2024

Name:

PUID:

Minors:

Email:

Updated:

Advisor:

Suggested Arrangement of Courses

Fall 1 st Year	CR	Prerequisite	Status	Fulfilled by	Spring 1 st Year	CR	Prerequisite	Status	Fulfilled by
ENGT 18200 Gateway to ENG Tech	4	ALEKS 60, SAT 570, ACT 24, or MA 15300 or higher			TLI 11200 Foundation of Organizational Leadership	3			
Computer Programming Selective	3				IET 21400 Intro to Supply Chain	3			
TECH 12000 Design Thinking in Tech.*	3				Mathematics Selective *	3			
Technical Graphics Selective	2				Materials & Processes Selective	3			
Oral Communication Selective*	3				Written Communication Selective	3			
Total Credit Hours	15				Total Credit Hours	15			

Fall 2 nd Year	CR	Prerequisite	Status	Fulfilled by	Spring 2 nd Year	CR	Prerequisite	Status	Fulfilled by
MET 24500 Manufacturing Systems	3	Materials & Processes Selective & Technical Graphics Selective			Behavioral/Social Science Selective	3			
IET 23500 Systems Thinking & Process Improvement	3				ECON 21000 Principles of Economics	3			
ECET 22400 Electronic Systems	3	Math Selective			STAT 30100 Elem Statistical Methods	3			
PHYS 22000 General Physics I	4				TLI 21300 Project Management	3			
Humanities Selective	3				Lab Science Selective	3			
Total Credit Hours	16				Total Credit Hours	15			

Fall 3 rd Year	CR	Prerequisite	Status	Fulfilled by	Spring 3 rd Year	CR	Prerequisite	Status	Fulfilled by
Technical Elective	3				IET 33520 Human Factor for Tech Sys	3			
IET 33400 Economic Analysis for Tech Sys	3	Math Selective			IET 43640 Lean Six Sigma	3	IET 31600		
IET 33620 Total Productive Maintenance	3	PHYS 22000, IET 31600 or STAT 30100			IET 43630 Design of Experiments	3	IET 31600 or STAT 30100		
IET 31600 Statistical Quality Control	3	Math Selective			Manufacturing Automation Selective	3			
Advanced Written Comm Selective	3				Advanced Oral Comm Selective	3			
Total Credit Hours	15				Total Credit Hours	15			

Fall 4 th Year	CR	Prerequisite	Status	Fulfilled by	Spring 4 th Year	CR	Prerequisite	Status	Fulfilled by
ENGT 48000 ET Capstone I	3	JR06 Standing, MET 24500, IET 43530 (concurrent), IET 43640 (concurrent)			IET 43540 Facilities Planning & Material Handling	3	Materials & Processes Selective & IET 43530		
IET 43530 Operations Plan & Mgmt	3	Math Selective			ENGT 48100 ET Capstone II	3	ENGT 48000		
Technical Elective	3				Technical Elective	3			
Technical Elective	3				Free Elective	3			
Free Elective	3				Free Elective	2			
Total Credit Hours	15				Total Credit Hours	14			

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. Free electives may be taken P/NP.
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.
- 5a. Professional Requirement.

- 5b. Intercultural Requirement.

- 5c. Civics Literacy Requirement.

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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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2024-2025 TIET SUPPLEMENTAL INFORMATION

All prerequisites must be met.

TECHNICAL GRAPHICS SELECTIVE

MFET 10301 Geometric Modeling Applications

CGT 11000 Technical Graphics Communications

MFET 16300 Graphical Communication and Spatial Analysis

ENGT 10500 Intro to Engineering Design

WRITTEN COMMUNICATION SELECTIVE

ENGL 10600 First-Year Composition

ENGL 10800 Accelerated First-Year Composition

SCLA 10100 Transformative Text, Critical Thinking and Communication I: Antiquity to Modernity

ADVANCED ORAL COMMUNICATION SELECTIVE

COM 31400 Advanced Presentational Speaking

COM 31500 Speech Comm Of Tech Information

COM 31800 Principles Of Persuasion

COM 32000 Small Group Communication

COM 32400 Introduction To Org Communication

COM 32500 Interviewing: Principles And Practice

COM 41500 Discussion Of Technical Problems

COM 43500 Comm And Emerging Technologies

COMPUTER PROGRAMMING SELECTIVE

CNIT 10500 Introduction to C Programming

CNIT 15500 Introduction to Object-Oriented Programming

CNIT 15501 Introduction To Software Development Concepts

CNIT 17500 Visual Programming

CS 15900 Programming Applications for Engineers

CS 17700 Programming With Multimedia Objects

CS 18000 Problem Solving And Object-Oriented Programming

MET 16400 Computing In Engineering Technology

TECHNICAL ELECTIVE

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 31000 Marketing And Management For New Ventures

ENTR 31500 Business Planning For Social Entrepreneurship

FREE ELECTIVES

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

HUMANITIES SELECTIVE<http://www.purdue.edu/provost/initiatives/curriculum/course.html>**BEHAVIORAL SOCIAL/SCIENCE SELECTIVE**<http://www.purdue.edu/provost/initiatives/curriculum/course.html>**ORAL COMMUNICATION SELECTIVE**

COM 11400 Fundamentals Of Speech Communication

SCLA 10200 Transformative Texts, Critical Thinking And Communication II: Modern World

MATERIALS & PROCESSES SELECTIVE

MET 14300 Materials & Processes I

MET 14400 Materials & Processes II

LAB SCIENCE SELECTIVE

ASTR 26300 Descriptive Astronomy: The Solar System

ASTR 26400 Descriptive Astronomy: Stars And Galaxies

BIOL 11000 Fundamentals Of Biology I

BIOL 11100 Fundamentals Of Biology II

BIOL 20300 Human Anatomy And Physiology

BIOL 20400 Human Anatomy And Physiology

BTNY 11000 Introduction To Plant Science

CHM 11100 General Chemistry

CHM 11200 General Chemistry

CHM 11500 General Chemistry

CHM 11600 General Chemistry

CHM 13600 General Chemistry Honors

EAPS 11100 Physical Geology

EAPS 11200 Earth Through Time

ENTM 22810 Forensic Investigation

ENTM 22820 Forensic Analysis

HORT 10100 Fundamentals Of Horticulture

PHYS 22100 General Physics

PHYS 27200 Electric And Magnetic Interactions

ADVANCED WRITTEN COMMUNICATION SELECTIVE

ENGL 30400 Advanced Composition

ENGL 30600 Intro To Professional Writing

ENGL 41900 Multimedia Writing

ENGL 42000 Business Writing

ENGL 42100 Technical Writing

ENGL 42400 Writing For High Technology Industries

MATHEMATICS SELECTIVE

MA 15800 Precalculus- Functions and Trigonometry

MA 16010 Applied Calculus I

MA 16020 Applied Calculus II

MA 16100 Plane Analytic Geometry & Calculus I

MA 16200 Plane Analytic Geometry & Calculus II

MA 16500 Analytic Geometry & Calculus I

MA 16600 Analytic Geometry & Calculus II

MANUFACTURING AUTOMATION SELECTIVE

MET 28400 Introduction to Industrial Controls

MFET 24800 Introduction to Robotics

MFET 30000 Applications of Automation in Manufacturing

MFET 34400 Automated Manufacturing Processes

Intercultural Requirement

All students must complete the School of Engineering Technology (Polytechnic) Growth Plan for Global Awareness and Intercultural Competency at the Developmental Level (see below). Students who are interested in further developing their Global Awareness and Intercultural Competency are encouraged to complete the requirement at the Emerging Level or the Proficient Level (see advisor for more information).

NOTE FOR TRANSFER/CODO STUDENTS: Transfer and CODO students with less than 75 credit hours remaining to complete their Polytechnic Plan of Study are exempt from Step 1 (taking the IDI Pretest).

Step 1:		Complete the Pre-test Intercultural Development Inventory Assessments (1st year)
Step 2:		<p>Complete one (1) of the following global experiences: * *Global</p> <p>experiences must take place during the time of enrollment in Polytechnic to complete Step 2. Experiences taken place prior to a student's initial enrollment will not serve to complete Step 2. Intercultural competencies gained on experiences prior to Polytechnic enrollment will be captured as baseline data on a student's IDI.</p> <ul style="list-style-type: none"> - Participate in A Purdue University international capstone, collaborative project - Participate in an international internship (international location) - Participate in a full semester abroad program - Complete 3 credit hours from the Polytechnic list of recommended Global/Cultural courses
Step 3:		Complete the Post-test Intercultural Development Inventory Assessments (4th year)

Approved list of courses

- AAS 27100 Introduction To African American Studies
- AAS 37300 Issues In African American Studies
- AGR 20100 Communicating Across Culture
- ANSC 38100 Leadership For A Diverse Workplace
- ANTH 20300 Biological Bases Of Human Social Behavior
- ANTH 20500 Human Cultural Diversity
- ANTH 21000 Technology And Culture
- ANTH 21200 Culture, Food And Health
- ANTH 23000 Gender Across Cultures
- ANTH 34000 Global Perspectives On Health
- ANTH 34100 Culture And Personality
- ANTH 37900 Native American Cultures
- ARAB 28000 Arabic Culture
- ASAM 24000 Introduction To Asian American Studies
- AT 23300 Ethics And Aviation
- CNIT 32000 Policy, Regulation, And Globalization In Information Technology
- COM 22400 Communicating In The Global Workplace
- COM 30300 Intercultural Communication
- COM 32000 Small Group Communication
- COM 41200 Theories Of Human Interaction
- COM 42300 Leadership, Communication And Organizations
- ECET 29000 International Experience
- ECET 38001 Global Professional Issues In Engineering Technology
- EDPS 30000 Student Leadership Development
- EDPS 30100 Peer Counseling Training
- EDPS 31500 Collaborative Leadership: Interpersonal Skills
- EDPS 31600 Collaborative Leadership: Cross-Cultural Settings
- EDPS 31700 Collaborative Leadership: Mentoring
- ENGL 41400 Studies In Literature And Culture

ENGR 31000 Engineering In Global Context
HDFS 28000 Diversity In Individual And Family Life
HDFS 33200 Stress And Coping In Contemporary Families
HEBR 38500 The Holocaust In Modern Hebrew Literature
HIST 30000 Eve Of Destruction: Global Crises And World Organization In The 20th Century
HIST 33805 History Of Human Rights
HIST 35000 Science And Society In The Twentieth Century World
HIST 36600 Hispanic Heritage Of The United States
HIST 37700 History And Culture Of Native America
HIST 46900 Black Civil Rights Movement
HTM 37000 Sustainable Tourism And Responsible Travel
HTM 37200 Global Tourism Geography
MSL 20100 Leadership And Ethics
OLS 35000 Creativity In Business And Industry
PHIL 11400 Global Moral Issues
PHIL 43500 Philosophy Of Mind
POL 22200 Women, Politics, And Public Policy
POL 23500 International Relations Among Rich And Poor Nations
POL 32600 Black Political Participation In America
POL 32700 Global Green Politics
POL 36000 Women And The Law
POL 41300 The Human Basis Of Politics
POL 42300 International Environmental Policy
POL 42900 Contemporary Political Problems - It's A Complex World
POL 43300 International Organization
SOC 10000 Introductory Sociology
SOC 31000 Race And Ethnicity
SOC 33900 Introduction To The Sociology Of Developing Nations
TECH 33000 Technology And The Global Society
WGSS 28200 Introduction To LGBT Studies
WGSS 38000 Gender And Multiculturalism
WGSS 38300 Women And Work

Professional Requirement

The SOET Professional Experience requirement is intended to document those experiences which help expose SOET students to the expectations of their profession prior to graduation. This may occur through industrial experience, technical or administrative involvement with community service, military service, et cetera. Approval has been granted for the following experiences.

Additional experiences may also satisfy this graduation requirement. Requests for approval should be submitted to the SOET Curriculum Subcommittee Chair for consideration, allowing at least four academic weeks for review and response.

Approved Professional Experiences

Approval by	Experience
Automatic	Any TECH Professional Practice course (co-op, intern, etc.)
Automatic	MET 29900 Internship for Credit
Automatic	EPICS courses, minimum of two
Advisor	Any approved internship (assuming student and/or employer provide documentation)
Advisor	Military service (ROTC, reservist, active duty, veteran)
Faculty	Supervised undergraduate research experiences or laboratory assistantships (e.g., employed in the AEL as lab technician)
Faculty	Independent study – by petition to ensure the project meets the spirit of the requirement
Faculty	Professional society/club activities (e.g., led the Solar Racing team) - by petition
Faculty	Any approved employment or industry project

Approval Key:

Automatic

– student participation in this professional experience is already documented through existing means

Advisor

– advisor reviews student’s experience to determine if it meets the spirit of the Professional Experience requirement.

Faculty

– designated committee reviews student’s experience to determine if it meets the spirit of the Professional Experience requirement