

Mechatronics Engineering Technology (MHET)

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">• Students must earn a "D-" or better in all courses.• Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.• Minimum 2.0 cumulative GPA		
Pass/No Pass option		
<ul style="list-style-type: none">• MFET majors do not allow P/NP grading for any classes that are used to meet degree requirements, all degree requirements must be taken for a grade. Electives may be taken P/NP		
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.



Polytechnic Institute

**School of Engineering Technology – Mechatronics Engineering Technology (MHET)
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
Materials and Processes Selective	3				TECH 12000 Design Thinking in Tech.	3			
MA 16010 Applied Calculus I	3	ALEKS score of 75			MA 16020 Applied Calculus II	3	MA 16010 with a grade of C- or better		
ENGT 18200 Gateway to Eng Tech	4	ALEKS 60, SAT 570, ACT 24, or MA 15300 or higher			MET 11100 Applied Statics	3	ENGT 18200		
Freshman Composition Selective	3				ECET 22400 Electronics Systems	3	ALEKS 60 or MA 16010		
CNIT 10500 Introduction to C Programming	3				Humanities Foundation Selective	3			
Total Credit Hours	16				Total Credit Hours	15			

Fall 2nd Year	CR	Prerequisite	Status	Fulfilled by	Spring 2nd Year	CR	Prerequisite	Status	Fulfilled by
ECET 17900 Introduction to Digital Systems	3	(ENGT 18200 or ECET 22400) and CNIT 10500)			STAT 30100 Elementary Statistics Methods	3			
Freshman Speech Selective* +	3				MET 23000 Fluid Power	3	(MET 11100 or PHYS sel.) and MA 16010		
MET 21300 Dynamics	1	MET 11100			MFET 24100 Automatic Control Systems	3	(MA 16020 or MA 16200 or MA 16600)		
MET 28400 Intro to Industrial Controls	3	ECET 22400			ECET 27900 Embedded Digital Systems	3	ECET 17900		
CS 17700 Programming with MM Obj	4				Physics Selective	4			
Total Credit Hours	16				Total Credit Hours	16			

Fall 3rd Year	CR	Prerequisite	Status	Fulfilled by	Spring 3rd Year	CR	Prerequisite	Status	Fulfilled by
MET 33400 Advanced Fluid Power	3	MET 23000			MET 31500 Ap Mechanics Kinematics and Dynamics	3	MET 21300 and Computer Graphics Selective		
MFET 36100 Machine Learning & Mfg Analytics	3	(CS 17700 or CNIT 15501) and MA 16020 and STAT 30100			MET 38200 Controls/Instr for Automation	3	MET 28400		
ECET 36900 Applied Computer Vision	3	(CS 17700 or CNIT 10500) and ECET 22400			MFET 37100 Intro to Precision Machine Design	3	MFET 24100		
Computer Graphics Selective	2				CHM 11100 General Chemistry	3			
Communications Selective	3				Free elective	3			
Total Credit Hours	14				Total Credit Hours	15			

Fall 4th Year	CR	Prerequisite	Status	Fulfilled by	Spring 4th Year	CR	Prerequisite	Status	Fulfilled by
ENGT 48000 ET Capstone I	3	ECET 27900 and MET 38200			ENGT 48100 ET Capstone II	3	ENGT 48000		
MET 22000 Heat and Power	3	PHYS 22000 and MA 16010 and ENGT 18200			IET 33400 Economic Analysis for Technology Systems	3			
MET 48200 Mechatronics	3	MET 28400			MET 43200 Hydraulic Motion Control	3	MET 23000		
MFET 47100 Electric Machines	3	MFET 24100 and MET 38200			ECET 33700 Analog Signal Processing	3	ECET 22400 + MA 16020		
Behavioral/Social Science Foundation Selective	3				Free Elective	1			
Total Credit Hours	15				Total Credit Hours	13			

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.

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- 5b. Intercultural Requirement.

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- 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

Created 05/20/2024 - SH

Updated 04/11/2024 (effective Fall 2024)

2024-2025 MECHATRONICS ENGINEERING TECHNOLOGY SUPPLEMENTAL INFORMATION

All prerequisites must be met.

FRESHMAN COMPOSITION SELECTIVE

ENGL 10600 First-Year Composition

ENGL 10800 Accelerated First-Year Composition

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

FRESHMAN SPEECH SELECTIVE

COM 11400 Fundamentals Of Speech Communication

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

COMMUNICATIONS SELECTIVE

COM 31500 Speech Communication Of Technical Information+

COM 32000 Small Group Communication

COM 41500 Discussion Of Technical Problems+

EDPS 31500 Collaborative Leadership: Interpersonal Skills

MATERIALS & PROCESSES SELECTIVE

MET 14300 Materials & Processes I

MET 14400 Materials & Processes II

COMPUTER 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

PHYSICS SELECTIVE

PHYS 22000 General Physics

PHYS 17200 Modern Mechanics

HUMANITIES FOUNDATION SELECTIVE: see <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

BEHAVIORAL/SOCIAL SCIENCE FOUNDATION SELECTIVE: see <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

FREE ELECTIVE: Any non-remedial course

+ denotes a Cornerstone Certificate course.

Updated 4/11/2024

Professional Requirement

The SOET Professional Experience requirement is intended to document those experiences which help expose SOET students to the expectations of their professional 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.

Table 1: 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 completion, 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

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).

Polytechnic Growth Plans for Global Awareness & Intercultural Competency

2024-2025

Step 1: Complete the Pre-test Intercultural Development Inventory Assessments (1st year)

Step 2: Complete one (1) of the following global experiences: *

- Participate in A Purdue University international capstone, collaborative project, or
- Participate in an international internship (international location), or
- Participate in a full semester abroad program, or
- 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)

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

*Global 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.

AAS 27100 Introduction To African American Studies
 AAS 35900 Black Women Writers
 AAS 37100 The African American Experience
 AAS 37300 Issues In African American Studies
 AAS 37500 The Black Family
 AAS 47300 Blacks In Hollywood Film
 AGE 53200 World Food Problems
 AGR 20100 Communicating Across Culture
 AMST 10100 America And The World
 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 28200 Introduction To LGBTQ Studies
 ANTH 32700 Environment And Culture
 ANTH 34000 Global Perspectives On Health
 ANTH 34100 Culture And Personality
 ANTH 35800 African Cultures
 ANTH 36800 Sociolinguistic Study Of African American English
 ANTH 37000 Ethnicity And Culture
 ANTH 37300 Anthropology Of Religion
 ANTH 37800 Archaeology And Cultural Anthropology Of Mesoamerica (Mexico, Belize And Guatemala)
 ANTH 37900 Native American Cultures
 ANTH 40400 Comparative Social Organization
 ARAB 23900 Arab Women Writers
 ARAB 28000 Arabic Culture
 ARAB 28100 Introduction To Islamic Civilization And Culture
 ARAB 33400 North African Literature And Culture
 ASAM 24000 Introduction To Asian American Studies
 ASAM 34000 Contemporary Issues In Asian American Studies
 ASL 28000 American Deaf Community: Language, Culture, And Society
 AT 23300 Ethics And Aviation
 CDIS 23900 Introduction To Disability Studies
 CGT 28500 Cross Cultural Game Development
 CHNS 28000 Topics in Chinese Civilization and Culture
 CHNS 28100 Introduction To Chinese Food Culture
 CHNS 33000 Introduction To Chinese Cinema
 CM 33200 Architectural Design, Construction Techniques And Society
 CMPL 23700 Our Common Bond: Languages And Cultures In A Global Context
 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 32800 Diversity At Work: A Rhetorical Approach
 COM 37200 Communication In Relationships
 COM 37600 Communication And Gender
 COM 38100 Gender And Feminist Studies In Communication
 COM 41200 Theories Of Human Interaction
 COM 41600 United States Politics And The Media
 COM 42300 Leadership, Communication And Organizations
 COM 46400 American Political Communication
 COM 52700 Introduction To Cultural Studies In Communication
 COM 57400 Organizational Communication
 CSR 34400 Fundamentals Of Negotiations
 CSR 52400 International Health
 ECET 38001 Global Professional Issues In Engineering Technology
 EDPS 21200 Collaboration And Family Engagement To Support Students With Disabilities
 EDPS 23500 Learning And Motivation
 EDPS 26500 The Inclusive Classroom
 EDPS 31500 Collaborative Leadership: Interpersonal Skills
 EDPS 31600 Collaborative Leadership: Cross-Cultural Settings
 EDST 51200 Foundations Of Educational Policy
 ENGL 21800 Figures Of Myth And Legends II: Heroes And Villains
 ENGL 22500 Literature, Inequality, And Injustice
 ENGL 22800 Language And Social Identity
 ENGL 22900 Creole Languages And Cultures
 ENGL 25700 Literature Of Black America
 ENGL 28000 Games, Narrative, Culture
 ENGL 33000 Games And Diversity
 ENGL 35200 Native American Literature
 ENGL 35400 Asian American Literature
 ENGL 35800 Black Drama
 ENGL 35900 Black Women Writers
 ENGL 36000 Gender And Literature
 ENGL 36600 Postcolonial Literatures
 ENGL 43900 Topics In Disability Studies
 ENGL 46600 Cultural Encounters
 ENGR 31000 Engineering In Global Context
 ENTR 47000 Women And Leadership
 FNR 48800 Global Environmental Issues
 GSLA 10100 Global Awareness
 GSLA 30100 Theories Of Global Studies
 HDF5 20100 Introduction To Family Processes
 HDF5 22500 Human Development Across Cultures

2024-2025

HDFS 28000 Diversity In Individual And Family Life
HEBR 38000 Israel And The Modern World: Cinema, Literature, History And Politics
HEBR 38500 The Holocaust In Modern Hebrew Literature
HIST 10500 Survey Of Global History
HIST 19500 The Historian's Craft: Historical Research And Film
HIST 21000 The Making Of Modern Africa
HIST 21100 The Global Field: World Soccer And Global History
HIST 30000 Eve Of Destruction: Global Crises And World Organization In The 20th Century
HIST 31205 The Arab-Israeli Conflict
HIST 31405 Science, Technology, Engineering And Mathematics (STEM) And Gender
HIST 31505 American Beauty
HIST 31905 Christianity In The Global Age
HIST 32900 History Of Women In Modern Europe
HIST 33400 Science And Society In Western Civilization II
HIST 33805 History Of Human Rights
HIST 34505 Arabs In American Eyes
HIST 35000 Science And Society In The Twentieth Century World
HIST 35700 History Of Southern Africa Since 1400
HIST 35900 Gender In East Asian History
HIST 36000 Gender In Middle East History
HIST 36600 Hispanic Heritage Of The United States
HIST 37100 Society, Culture, And Rock And Roll
HIST 37700 History And Culture Of Native America
HIST 38105 American Indians And Film
HIST 38605 Land Of The Indians: Native Americans In Indiana
HIST 38700 History Of The Space Age
HIST 39800 The Afro-American Since 1865
HIST 46900 Black Civil Rights Movement
HIST 47005 Women And Health In America
HIST 47700 Native American Women's History
HIST 48800 History Of Sexual Regulation In The United States
HIST 49400 Science And Society In American Civilization
HK 57600 Diversity And Health
ITAL 28000 Italian Culture And Civilization
ITAL 28100 The Italian Renaissance And Its Scientific And Cultural Impact On Western Civilization
JPNS 28000 Introduction To Modern Japanese Civilization
LALS 25000 Introduction To Latin American And Latino Studies
LALS 26000 U S Latino Culture
LC 23300 Love, Sex, And Gender In Western European Literature
LC 23700 Our Common Bond: Languages And Cultures In A Global Context
LC 36800 Sociolinguistic Study Of African American English
LING 36800 Sociolinguistic Study Of African American English
LING 57600 Latin American Indigenous Languages And Cultures
MET 52700 Technology From A Global Perspective
MGMT 33100 Development And Impact Of Equal Employment Law
MUS 37600 World Music
NUTR 53200 World Food Problems
OBHR 54100 Leading Management Of Diversity And Inclusion In Organizations
PHIL 11400 Global Moral Issues
PHIL 20700 Ethics For Technology, Engineering, And Design
PHIL 22500 Philosophy And Gender
PHIL 23000 Religions Of The East
PHIL 23100 Religions Of The West
PHIL 24000 Social And Political Philosophy
PHIL 24200 Philosophy, Culture, And The African American Experience
POL 13000 Introduction To International Relations
POL 14100 Governments Of The World
POL 22200 Women, Politics, And Public Policy
POL 23100 Introduction To United States Foreign Policy
POL 23500 International Relations Among Rich And Poor Nations
POL 32600 Black Political Participation In America
POL 32700 Global Green Politics
POL 33500 China And The Challenges Of Globalization
POL 36000 Women And The Law
POL 41300 The Human Basis Of Politics
POL 42300 International Environmental Policy
POL 43300 International Organization
POL 43801 International Human Rights
PSY 23900 The Psychology Of Women
PSY 24400 Introduction To Human Sexuality
PSY 33700 Social Cognition
PTGS 33000 Brazilian, Portuguese, And African Cinema
PUBH 22500 Contemporary Women's Health
PUBH 51100 International Health
REL 23000 Religions Of The East
REL 23100 Religions Of The West
RUSS 33000 Russian And East European Cinema
RUSS 38000 Russian Culture And Civilization I
RUSS 38100 Russian Culture And Civilization II
SOC 10000 Introductory Sociology
SOC 22000 Social Problems
SOC 26700 Religion In The Modern World
SOC 31000 Race And Ethnicity
SOC 33800 Global Social Movements
SOC 33900 Introduction To The Sociology Of Developing Nations
SOC 35200 Drugs, Culture, And Society
SOC 35600 Hate And Violence
SOC 36700 Religion In America
SOC 36900 Religion And Chinese Society
SOC 41100 Social Inequality
SOC 42900 Sociology Of Protest
SOC 51400 Racial And Cultural Minorities
SYS 30000 It's A Complex World - Addressing Global Challenges
TECH 33000 Technology And The Global Society
TLI 11200 Foundations Of Organizational Leadership
TLI 35600 Global Technology Leadership
WGSS 28000 Women's, Gender, And Sexuality Studies: An Introduction
WGSS 28200 Introduction To LGBT Studies
WGSS 38000 Gender And Multiculturalism
WGSS 38100 Women Of Color In The United States
WGSS 38300 Women And Work
Any foreign language 20000 or higher (20100, 20200, 30100, 30200, 40100, 40200)
Any Purdue approved Study Abroad with a minimum of 3 credit hours that includes reflective learning assignments.