

Aeronautical Engineering Technology (AENT)

Purdue Polytechnic Institute

School of Aviation and Transportation 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 "C" or better in all AT courses. • Purdue policy states that a student may attempt a course no more than three times. An attempt is defined as all courses displayed on a student transcript having grades of (including, but not limited to) A, B, C, D, E, F, W, WF, I and IF. • 2.0 Graduation GPA required for Bachelor of Science degree. • A course can only satisfy one departmental/program major degree requirement within a unique plan of study. • A course may be used to satisfy two separate departmental/program major degree requirements 		
Pass/No Pass option		
<ul style="list-style-type: none"> • A student may elect the Pass/Not-Pass (P/NP) grading option for courses without an AT prefix. A student may not elect this option for more than 20 percent of the total credit hours required for graduation. AT prefix courses may be taken for P/NP only under extenuating circumstances and in close coordination with advisors and faculty. Some AT prefix courses have been established as P/NP for all students and are therefore required to be taken in that manner. For further information regarding P/NP, students should refer to the Purdue Regulations, Grades and Grade Reports, Pass/Not-Pass Option & Scholastic Indexes. 		
Non-course/Non-credit Requirements		
<ul style="list-style-type: none"> • Complete an Internship Requirement. * Complete a Globalization 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.

Aviation & Transportation Technology -Aeronautical Engineering Technology (AENT)

Name:

PUID:

Suggested Arrangement of Courses:

Cr	Fall 1st Year	Notes	Cr	Spring 1st Year	Notes
1	AT 10000 – Intro to Aviation Technology		3	AT 20700 – Intro to Aircraft Systems	
3	AT 11600 Aircraft Science for Engineering Technology or AT 10600 Basic Aircraft Science		3	AT 20802 – Aircraft Materials	
3	AT 12700 – Publications Records Regulations		2	MFET 16300 – Graphical Comm. & Spatial Analysis	
3	AT 27800 – Nondestructive Testing for Aircraft		3	TECH 12000 – Design Thinking in Technology	
3	SCLA 10100 Transformative Texts: Written		4	PHYS 22000 General Physics*	
3	MA 15800 Precalculus*				
16			15		

Cr	Fall 2nd Year	Notes	Cr	Spring 2nd Year	Notes
3	AT 26502 – Aircraft Electrical Systems		4	AT 26200 – Basic Aircraft Powerplant	
3	AT 26700 – Fixed & Rotary Wing Assemblies		3	AT 33502 – Avionics Systems	
3	AT 27200 – Intro to Composite Technology		4	AT 36302 –Fundamentals of Powerplant Systems	
3	AT 30702 – Advanced Aircraft Systems		4	AT 37600 – Aircraft Gas Turbine Engine Technology I	
3	SCLA 10200 Transformative Texts: Oral				
15			15		

Cr	Fall 3rd Year	Notes	Cr	Spring 3rd Year	Notes
3	AT 20501 – Statics for Aerostructures		3	AT 30802 – Aircraft Materials Processes	
3	AT 37200 – Aircraft Maintenance Practices		3	AT 32001 – Advanced Aviation Operations	
1	AT 40300 – Airman Certification Procedures		2	AT 38500 – Design Support Analysis	
3	AT 47600 – Aircraft Gas Turbine Engine Technology II		3	AT 47200 Advanced Composite Technology or AT 48000 Adv Aviation Manufacturing	
3	MA 16010 – Applied Calculus I		3	STAT 30100 – Elementary Statistical Methods	
3	Elective				
16			14		

Cr	Fall 4th Year	Notes	Cr	Spring 4th Year	Notes
3	AT 44502 – Aircraft Electronics		3	AT 49200 – Aircraft Airworthiness Assurance	
2	AT 49600 – Applied Research Proposal		3	AT 49700 – Applied Research Project(Capstone)	
3	Cornerstone Level II Selective List		3	Behavioral/Social Science Selective List	
3	Cornerstone Level III Selective List UCC: HC		3	Cornerstone Level III Selective List	
3	Science Core Selective		3	Economics Selective	
14			15		

*Satisfies a University Core Requirement

Graduation Requirements:

Students must earn a "C" or better in all AT courses.

120 semester credits & 2.00 Graduation GPA required for Bachelor of Science degree.

Purdue policy states that a student may attempt a course no more than three (3) times. An attempt is defined as all courses displayed on a student’s transcript including, but not limited to A,B,C,D,E,F,W,WF,I and IF

Each student must have 32 credit hours of 300- or 400-level Purdue courses for graduation.

Cornerstone Certificate is required with this major.

**The student is ultimately responsible for knowing and completing all degree requirements.
myPurduePlan is knowledge source for specific requirements and completion**

Effective Fall 2024



Polytechnic Institute

Aviation Technology Supplemental Information

Behavioral/Social Science Foundational Selective--

The following courses are approved to meet the Globalization Requirement and satisfies Human Cultures: Behavioral/Social Science for core.

Globalization--Globalization is a requirement for graduation and is embedded within the plan of study using the Behavioral/Social Science Foundational Selective.

[AGR 20100 - Communicating Across Culture Credits: 3.00](#)

[ANTH 20300 - Biological Bases Of Human Social Behavior Credits: 3.00](#)

[ANTH 20500 - Human Cultural Diversity Credits: 3.00](#)

[ANTH 23000 - Gender Across Cultures Credits: 3.00](#)

[ANTH 37900 - Native American Cultures Credits: 3.00](#)

[COM 22400 - Communicating In The Global Workplace Credits: 3.00](#)

[HDFS 20100 - Introduction To Relationship And Family Science Credits: 3.00](#)

[HDFS 28000 - Diversity In Individual And Family Life Credits: 3.00](#)

[POL 13000 - Introduction To International Relations Credits: 3.00](#)

[POL 14100 - Governments Of The World Credits: 3.00](#)

[POL 22200 - Women, Politics, And Public Policy Credits: 3.00](#)

[POL 23100 - Introduction To United States Foreign Policy Credits: 3.00](#)

[POL 23500 - International Relations Among Rich And Poor Nations Credits: 3.00](#)

[POL 32600 - Black Political Participation In America Credits: 3.00](#)

[POL 32700 - Global Green Politics Credits: 3.00](#)

[POL 33500 - China And The Challenges Of Globalization Credits: 3.00](#)

[POL 36000 - Women And The Law Credits: 3.00](#)

[SOC 10000 - Introductory Sociology Credits: 3.00](#)

[SOC 22000 - Social Problems Credits: 3.00](#)

[SOC 35200 - Drugs, Culture, And Society Credits: 3.00](#)

[SOC 42900 - Sociology Of Protest Credits: 3.00](#)

[WGSS 28000 - Women's, Gender, And Sexuality Studies: An Introduction Credits: 3.00](#)

[WGSS 28200 - Introduction To LGBTQ Studies Credits: 3.00](#)

[WGSS 38000 - Comparative Studies In Gender And Culture Credits: 3.00](#)

Cornerstone Certificate-- Cornerstone Certificate is a requirement for graduation and is embedded within the plan of study. Exceptions are provided due to change of catalog term, re-entry students, readmit students, transfer students, change of major within Purdue, or other situations on a per case basis.

Cornerstone Level III: Human Cultures Humanities Selective--Satisfies Human Cultures, Humanities for core.

[CLCS 38500 - Science, Medicine And Magic In The Ancient West Credits: 3.00](#)

[ENGL 32200 - Word, Image, Media Credits: 3.00](#)

[ENGL 36700 - Mystery And Detective Fiction Credits: 3.00](#)

[ENGL 37300 - Science Fiction And Fantasy Credits: 3.00](#)

[HIST 30000 - Eve Of Destruction: Global Crises And World Organization In The 20th Century Credits: 3.00](#)

[HIST 31405 - Science, Technology, Engineering And Mathematics \(STEM\) And Gender Credits: 3.00](#)

[HIST 31505 - American Beauty Credits: 3.00](#)

[HIST 33805 - History Of Human Rights Credits: 3.00](#)

[HIST 35205 - Death, Disease And Medicine In Twentieth Century American History Credits: 3.00](#)

[HIST 36305 - The History Of Medicine And Public Health Credits: 3.00](#)

[HIST 38001 - History Of United States Agriculture Credits: 3.00](#)

[HIST 38200 - American Constitutional History Credits: 3.00](#)

[HIST 38300 - Recent American Constitutional History Credits: 3.00](#)

[HIST 38400 - History Of Aviation Credits: 3.00](#)

[HIST 38700 - History Of The Space Age Credits: 3.00](#)

[HIST 47005 - Women And Health In America Credits: 3.00](#)

[PHIL 41100 - Modern Ethical Theories Credits: 3.00](#)

[PHIL 42400 - Recent Ethical Theory Credits: 3.00](#)

Economics Selectives

[AGEC 21700 - Economics Credits: 3.00](#)

[CSR 34200 - Personal Finance Credits: 3.00](#)

[ECON 21000 - Principles Of Economics Credits: 3.00](#)

[ECON 25100 - Microeconomics Credits: 3.00](#)

[ECON 25200 - Macroeconomics Credits: 3.00](#)

Thematic Area Selective Requirement (Can be fulfilled by any of the following):

Option I: Any University - approved minor

Option II: 6 credit hours of 20000 or higher-level courses AND 6 credit hours of 30000 or higher-level courses from any of the following departments: AT, AFT, EAPS, ECON, ENTR, HTM, MGMT, OBHR, OLS, POL, or TLI

Option III: 12 consecutive credit hours in a foreign language

Option IV: 9 credit hours of 50000 level courses AND 3 credit hours of 30000 or higher-level courses

NOTE: This requirement is not required for Aeronautical Engineering Technology and Unmanned Aerial Systems majors.

Aviation Management

Aviation Management selectives may consist of any 30000, 40000, or 50000 level AT prefixed courses. In addition, AFT 35100 and AFT 36100 may be used as AM selectives.

Airport Management - Recommended courses for the Airport Management focus area are AT 35900, AT 45100, and AT 45900.

Airline Management - Recommended courses for the Airline Management focus area are AT 33800 and AT 43800.

Internship/Professional Experience

The School of Aviation and Transportation Technology (SATT) requires an internship or professional experience for all SATT majors. A minimum of 160 hours of work experience is required. This requirement may be satisfied through documented work experience at an approved employer or service agency.

Examples of such organizations include, but are not limited to, Purdue Aviation LLC, aviation or aerospace companies, government agencies, or non-aviation companies that are of specific career interest to the student. Students who need academic credit should discuss AT 43300 with an advisor and must register before starting the internship.

https://polytechnic.purdue.edu/sites/default/files/files/SATT%20Internship_Professional%20Experience%2012_7_23%20Fillable.pdf