

## Professional Flight (AVFT)

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 **		
<a href="https://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html">https://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html</a>		
<ul style="list-style-type: none"> <li>• Human Cultures: Behavioral/Social Science</li> <li>• Human Cultures: Humanities</li> <li>• Information Literacy</li> <li>• Oral Communication</li> </ul>		<ul style="list-style-type: none"> <li>• Quantitative Reasoning</li> <li>• Science</li> <li>• Science, Technology &amp; Society Selective</li> <li>• Written Communication</li> </ul>
Civics Literacy Proficiency		
<a href="https://www.purdue.edu/provost/about/provostInitiatives/civics/">https://www.purdue.edu/provost/about/provostInitiatives/civics/</a>		
Required Major Program Courses (see following pages)		
Departmental specific requirement <ul style="list-style-type: none"> <li>• Students must earn a "C" or better in all AT courses.</li> <li>• 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.</li> <li>• 2.0 Graduation GPA required for Bachelor of Science degree.</li> <li>• A course can only satisfy one departmental/program major degree requirement within a unique plan of study.</li> <li>• A course may be used to satisfy two separate departmental/program major degree requirements</li> <li>• Thematic Area Selective Requirement               <ul style="list-style-type: none"> <li>○ Option I: Any University - approved minor</li> <li>○ 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</li> <li>○ Option III: 12 consecutive credit hours in a foreign language</li> <li>○ Option IV: 9 credit hours of 50000 level courses AND 3 credit hours of 30000 or higher-level courses</li> </ul> </li> </ul>		
Pass/No Pass option		
<ul style="list-style-type: none"> <li>• 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</li> </ul>		

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**

- 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 -Professional Flight Technology (AVFT)**

Name:

PUID:

**Suggested Arrangement of Courses:**

Cr	Fall 1st Year	Notes	Cr	Spring 1st Year	Notes
1	AT 10000 – Intro to Aviation Technology		1	AT 11200 Introduction to Operational Aviation Safety	
3	AT 10200 Aviation Business		3	AT 10300 Aerospace Vehicle Propulsion and Tracking Systems	
4	AT 14400 Private Pilot Lectures		1	AT 21000 Ground Trainer I	
2	AT 14500 Private Pilot Flight		3	AT 24900 Instrument Flight Lectures	
3	SCLA 10100 Transformative Texts: Written		2	AT 25302 Instrument Flight	
3	MA 15800 Precalculus*		3	TECH 12000 – Design Thinking in Technology	
			3	MA 16010 – Applied Calculus I	
<b>16</b>			<b>16</b>		

Cr	Fall 2nd Year	Notes	Cr	Spring 2nd Year	Notes
1	AT 21200 Operational Risk Assessment		1	AT 31400 Operational Safety Mitigation	
3	AT 20200 Aerospace Vehicle Systems Design, Analysis and Operations		2	AT 24802 Commercial Flight II	
3	AT 20300 Aviation Operations Management		4	PHYS 22000 GEN Physics	
1	AT 21100 Ground Trainer II		3	SCLA 10200 Transformative Texts: Oral Communication	
3	AT 22300 Human Factors for Flight Crews		3	Behavioral/Social Science Selective List	
2	AT 24302 Commercial Flight I		3	Thematic Area Selective/Minor Course	
3	AT 25400 Commercial Flight Lectures				
<b>16</b>			<b>16</b>		

Cr	Fall 3rd Year	Notes	Cr	Spring 3rd Year	Notes
3	AT 32501 Advanced Aviation Meteorology		3	AT 32700 Advanced Transport Flight Operations	
1	AT 35300 Multi-engine Flight		2	AT 38700 Turbine Aircraft Simulation Lab	
2	AT 35400 Turbine Flight Operations Lectures		3	AT 38800 Large Aircraft Systems	
3	STAT 30100 Elem Stat Meth		2	AT 41600 Airline Indoctrination	
3	Cornerstone Level III Selective List		3	AT 47500 Aviation Law	
3	Thematic Area Selective/Minor Course		3	Cornerstone Level II Selective List	
<b>15</b>			<b>16</b>		

Cr	Fall 4th Year	Notes	Cr	Spring 4th Year	Notes
2	AT 43900 Aviation Command Leadership		2	AT 49401 AT Capstone Project Proposal	
2	AT 48700 Transport Aircraft Simulation Laboratory		1	AT 49501 Applied Capstone Research Project	
3	Economics Selective		3	Thematic Area Selective/Minor Course	
3	Thematic Area Selective/Minor Course		3	Science Core Selective	
3	Cornerstone Level III Human Cultures, HC Selective List		3	Free Elective	
<b>13</b>			<b>12</b>		

\*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 & Transportation Technology - Professional Flight Technology (AVFT)**
**Departmental/Program Major Courses (117 credits)**
**Required Major Courses (65 credits)**

- \_\_\_\_\_ 1 AT 10000 Introduction to Aviation Technology
- \_\_\_\_\_ 3 AT 10200 Aviation Business
- \_\_\_\_\_ 3 AT 10300 Aerospace Vehicle Propulsion and Tracking Systems
- \_\_\_\_\_ 1 AT 11200 Introduction to Operational Aviation Safety
- \_\_\_\_\_ 4 AT 14400 Private Pilot Lectures
- \_\_\_\_\_ 2 AT 14500 Private Pilot Flight
- \_\_\_\_\_ 3 AT 20200 Aerospace Vehicle Systems Design, Analysis and Operations
- \_\_\_\_\_ 3 AT 20300 Aviation Operations Management
- \_\_\_\_\_ 1 AT 21000 Ground Trainer I
- \_\_\_\_\_ 1 AT 21100 Ground Trainer II
- \_\_\_\_\_ 1 AT 21200 Operational Risk Assessment
- \_\_\_\_\_ 3 AT 22300 Human Factors for Flight Crews
- \_\_\_\_\_ 2 AT 24302 Commercial Flight I
- \_\_\_\_\_ 2 AT 24802 Commercial Flight II
- \_\_\_\_\_ 3 AT 24900 Instrument Flight Lectures
- \_\_\_\_\_ 2 AT 25302 Instrument Flight
- \_\_\_\_\_ 3 AT 25400 Commercial Flight Lectures
- \_\_\_\_\_ 1 AT 31400 Operational Safety Mitigation
- \_\_\_\_\_ 3 AT 32501 Advanced Aviation Meteorology
- \_\_\_\_\_ 3 AT 32700 Advanced Transport Flight Operations
- \_\_\_\_\_ 1 AT 35300 Multi-engine Flight
- \_\_\_\_\_ 2 AT 35400 Turbine Flight Operations Lectures
- \_\_\_\_\_ 2 AT 38700 Turbine Aircraft Simulation Lab
- \_\_\_\_\_ 3 AT 38800 Large Aircraft Systems
- \_\_\_\_\_ 2 AT 41600 Airline Indoctrination
- \_\_\_\_\_ 2 AT 43900 Aviation Command Leadership
- \_\_\_\_\_ 3 AT 47500 Aviation Law
- \_\_\_\_\_ 2 AT 48700 Transport Aircraft Simulation Laboratory
- \_\_\_\_\_ 2 AT 49401 AT Capstone Project Proposal
- \_\_\_\_\_ 1 AT 49501 Applied Capstone Research Project

**Other Departmental /Program Course Requirements (52 credits)**

- \_\_\_\_\_ 4 PHYS 22000 GEN Physics (satisfies Science Selective for core)
- \_\_\_\_\_ 3 SCLA 10100 (satisfies Written Communication for core)
- \_\_\_\_\_ 3 SCLA 10200 (satisfies Oral Communication for core)
- \_\_\_\_\_ 3 TECH 12000 Design Thinking in Technology (satisfies Information Literacy Selective for core)
- \_\_\_\_\_ 3 MA 15800 Precalculus - Functions & Trig (satisfies Quantitative Reasoning Selective for core)
- \_\_\_\_\_ 3 MA 16010 Applied Calculus I (satisfies Quantitative Reasoning Selective for core)
- \_\_\_\_\_ 3 STAT 30100 Elem Stat Meth
- \_\_\_\_\_ 3 Behavioral/Social Science Selective List (satisfies UCC: Human Culture Behavioral/Social Science for core)
- \_\_\_\_\_ 3 Cornerstone Level II Selective List
- \_\_\_\_\_ 3 Cornerstone Level III Selective List
- \_\_\_\_\_ 3 Cornerstone Level III Human Cultures, HC Selective List (satisfies UCC: Human Cultures, Humanities for core)
- \_\_\_\_\_ 3 Science Core Selective (satisfies Science Selective for core)
- \_\_\_\_\_ 3 Economics Selective
- \_\_\_\_\_ 12 Any University-approved minor or departmentally-approved thematic area of study

**Electives (3 credits)**

- \_\_\_\_\_ 3 Free Elective

**University Core Requirements**

Cornerstone III *Human Cultures Humanities*  
UCC Selective *Human Cultures Behavioral/Social Science*  
TECH 12000 *Information Literacy*  
PHYS 22000 *Science Selective*  
UCC Selective *Science Selective*

TECH 12000 *Science, Technology & Society Selective*  
SCLA 10100 *Written Communication*  
SCLA 10200 *Oral Communication*  
MA 16010 *Quantitative Reasoning*

\*\*\*\*\*

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

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.

## 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](#)



Polytechnic Institute

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