

Departmental/Program Major Courses (111 credits)

Required Major Courses¹ (59 credits) (See Supplemental Information)

- _____ (3) AT 10200 Aviation Business
- _____ (3) AT 10600 Basic Aircraft Science
- _____ (4) AT 14400 Private Pilot Lectures
- _____ (3) AT 20300 Aviation Operations Management
- _____ (3) AT 49800 AT Capstone
- _____ (36) AOT Selectives¹⁴ (See Supplemental Information)

Other Departmental /Program Course Requirements (52 credits)

- _____ (3) Humanities Foundational Selective* (*satisfies Human Cultures Humanities for core*)² (See Supplemental Information) – PHIL 111 – Intro to Philosophy; PHIL 212 – Intro to Ethics; HIST 139 – American History I; HIST 140 – American History II
- _____ (3) Behavioral/Social Science Foundational Selective* (*satisfies Human Culture Behavioral/Social Science for core*)³ (See Supplemental Information) – POLS 111 – American National Government; POLS 211 – Intro to World Politics; POLS 220 – Public Administration PSYC 101 – Intro to Psychology; SOCL 154 – Cultural Anthropology
- _____ (3) TECH 12000* (*satisfies Information Literacy Selective for core*)⁴(See Supplemental Information)
- _____ (4) PHYS 21800* (*satisfies Science Selective for core*)
- _____ (3) Science Foundational Selective* (*satisfies Science Selective for core*)⁵(See Supplemental Information) – PHYT 101 & 101L – Technical Physics
- _____ (3) English Composition Selective* (*satisfies Written Communication for core*)⁶(See Supplemental Information) – ENGL 101 English Composition I
- _____ (3) COM 11400* (*satisfies Oral Communication for core*)⁷(See Supplemental Information) – COMM 143 - Speech
- _____ (3) MA 15800* (*satisfies Quantitative Reasoning Selective for core*)
- _____ (3) MA 22100 or MA 16010* (*satisfies Quantitative Reasoning Selective for core*)⁸(See Supplemental Information) – MATH 115 – Survey of Calculus
- _____ (3) Economics Selective⁹(See Supplemental Information) – ECON 208 – Personal Finance Management
- _____ (3) Advanced English Selective¹⁰(See Supplemental Information) – ENGL 205 – Business Communications
- _____ (3) Technical Communications Selective¹¹(See Supplemental Information)
- _____ (3) STAT 30100
- _____ (12) Any University-approved minor or departmentally-approved thematic area of study¹²(See Supplemental Information)
- _____ (0) Globalization¹³(See Supplemental Information)

Free Electives¹⁴ (9 credits) (this is met with VU Associates Degree) and AOT Selectives¹⁵ (16-32 credits) (Some of the credits are met with VU Associates Degree) (See Supplemental Information)

_____ (FE) _____	_____ (FE) _____	_____ (AOT) _____	_____ (AOT) _____
_____ (FE) _____	_____ (AOT) _____	_____ (AOT) _____	_____ (AOT) _____
_____ (AOT) _____	_____ (AOT) _____	_____ (AOT) _____	_____ (AOT) _____

University Core Requirements (<http://www.purdue.edu/provost/initiatives/curriculum/course.html>)

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	_____
Human Cultures	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Behavioral/Social Science	<input type="checkbox"/>	_____	Oral Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____			

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

Suggested Arrangement of Courses:

FIRST SEMESTER	Prerequisite	CR	SECOND SEMESTER	Prerequisite	CR
AT 10000 - Introduction to Aviation Technology ¹		1	AT 10200 - Aviation Business		3
AT 10600 – Basic Aircraft Science ¹		3	AT 10300 - Aerospace Vehicle Propulsion ¹		3
AT 14400 – Private Pilot Lectures ¹		4	TECH 12000 - Technology and the Individual ^{4*}		3
Free Elective ¹⁴		3	English Composition Selective ^{*6} (ENGL 101)		3
COM 11400 - Fundamentals of Speech Communication ^{7*} (COMM 143)		3	AOT Selective ¹⁵		3
Total		14	Total		15

THIRD SEMESTER	Prerequisite	CR	FOURTH SEMESTER	Prerequisite	CR
AOT Selective ¹⁵		3	AT 20200 - Aerospace Vehicle Systems ¹	AT 10600 or AT 14400	3
AOT Selective ¹⁵		3	AOT Selective ¹⁵		3
AOT Selective ¹⁵		3	AOT Selective ¹⁵		3
Free Elective ¹⁴		3	Economics Selective ^{9*} (ECON 208)		3
Free Elective ¹⁴		3	Science Foundational Selective ^{5*} (PHYT 101)		3
Total		15	Total		15

FIFTH SEMESTER	Prerequisite	CR	SIXTH SEMESTER	Prerequisite	CR
AT 10200 - Aviation Business		3	AT 20300 - Aviation Operations Management	AT 10200	3
AOT Selective ¹⁵		3	AOT Selective ¹⁵		3
MA 15800 – Precalculus		3	Thematic Area Selective ¹²		3
Thematic Area Selective ¹²		3	Advanced English Selective ¹⁰		3
Behavioral/Social Science Found. Selective ^{3*}		3	MA 16010 – Applied Calculus I ^{*8}		3
AOT Selective ¹⁵		3	AOT Selective ¹⁵		3
Total		18	Total		18

SEVENTH SEMESTER	Prerequisite	CR	EIGHTH SEMESTER	Prerequisite	CR
AOT Selective ¹⁵		3	AT 49800 – AT Capstone	Senior Standing	3
AOT Selective ¹⁵		3	AOT Selective ¹⁵		3
Thematic Area Selective ¹²		3	Thematic Area Selective ¹²		3
Technical Communication Selective ¹¹		3	Humanities Foundational Selective ^{2*}		3
PHYS 21800 – General Physics*		4	STAT 30100 – Elementary Statistical Methods		3
Globalization ¹³		0			
Total		16	Total		15

*Fulfills University Core

- 1) 120 credits listed above are required for the AERT Bachelor of Science degree.
- 2) 2.0 Graduation GPA required for Bachelor of Science degree.
- 3) 32 credits of upper division courses (30000 level or higher) must be taken at the Purdue campus conferring the degree.
- 4) ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, I AND IF).

See next page for all supplemental information

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

AERT Supplemental Information

All prerequisites must be met.

¹**Required Major Courses** – Classes below are met by VU A.S. Degree

<u>1</u>	(1)	AT 10000	Introduction to Aviation Technology – (1) AFLT 100 – Primary Ground School ^F or (1) AMNT 164 – Aircraft Systems
<u>3</u>	(3)	AT 10300	Aerospace Vehicle Propulsion and Tracking Systems - (2) AFLT 160 – Powerplant Lecture ^F & (1) AFLT 205 – Advanced Simulation ^F or (3) AMNT 202 – Powerplant Fuel & Induction Systems ^M
<u>3</u>	(3)	AT 10600	Basic Aircraft Science – (3) AMNT 102 – General Aviation Maintenance ^M
<u>4</u>	(4)	AT 14400	Private Pilot Lectures – (4) AFLT 100 – Primary Ground School ^F
<u>3</u>	(3)	AT 20200	Aerospace Vehicle Systems Design, Analysis and Operations - (1) AFLT 205 – Advanced Simulation ^F & (2) AFLT 210 – Instrument Radios & Systems ^F or (3) AMNT 164 – Aircraft Systems ^M
<u>Varies</u>			AOT Selectives ¹⁴

²**Humanities Foundational Selective (3 credits)**

PHIL 111 – Intro to Philosophy; PHIL 212 – Intro to Ethics; HIST 139 – American History I; HIST 140 – American History II

³**Behavioral/Social Science Foundational Selective (3 credits)**

POLS 111 – American National Government; POLS 211 – Intro to World Politics; POLS 220 – Public Administration PSYC 101 – Intro to Psychology; SOCL 154 – Cultural Anthropology

⁴**TECH 12000 (satisfies Information Literacy Selective for core)** – (1) AFLT 105 – Primary Flight^F, (1) AFLT 176 – Instrument Flight^F, & (1) AFLT 186 – Commercial Flight^F; or (1) AMNT 104 – Introduction to Electricity, (1) AMNT 106 – Materials, Processes, & Welding, & (1) AMNT 107 – Hydraulics & Pneumatics

⁵**Science Foundation Selective (3 credits)**

PHYT 101 & PHYT 101L – Technical Physics

⁶**English Composition Selective (satisfies Written Communication for core) (3 credits)**

ENGL 101 – English Composition I

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

COMM 143 – Speech

⁸**MA 22100 or MA 16010 (satisfies Quantitative Reasoning Selective) (3 credits)**

MATH 115 – Survey of Calculus

⁹**Economics Selective**

ECON 208 – Personal Financial Management

¹⁰**Advanced English Selective (3 credits)**

ENGL 205 – Business Communications or ENGL 42100 – Technical Writing

¹¹**Technical Communication Selective (3 credits)**

COM 31500 – Speech Communication of Technical Information; COM 32000 – Small Group Communication; COM 32400 – Introduction to Organizational Communication; COM 41500 – Discussion of Technical Problems

¹²**Thematic Area Selective Requirement (12 credits)**

- 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, IT, OLS
- 12 consecutive credit hours in a Foreign Language

¹³**Globalization Requirement**

Due to the international nature of the aviation industry, all B.S. degree students must meet the department's globalization requirement through one of the following options:

- Complete any university-sponsored study abroad
- program lasting at least 7 days
- Complete an internship or approved international research project that involves at least 7 days of international travel
- 12 consecutive credit hours in one Foreign Language
- Provide documentation of having lived/traveled outside the U.S. for at least 15 days after a student's 12th birthday

¹⁴**Free Elective (15 credits)**

This is met with Vincennes University Associates Degree

¹⁵**AOT Selectives- Possible Selectives listed below:**

- (2) AT 14500 Primary Flight – (2) AFLT 105 – Primary Flight
- (2) AT 24300 Commercial Flight I – (2) AFLT 186 – Commercial Flight
- (1) AT 21000 Ground Trainer - (1) AFLT 205L – Advanced Simulation Lab
- (1) AT 24500 Cross-Country Flight – (1) AFLT 170 – Cross Country Flight
- (2) AT 24800 Commercial Flight II – (2) AFLT 216 – Commercial Flight II
- (3) AT 24900 Instrument Flight Lectures – (3) AFLT 221 – Instrument Ground School
- (2) AT 25300 Instrument Flight – (2) AFLT 176 – Instrument Flight
- (1) AT 35300 Multiengine Flight – (1) AFLT 296 – Advanced Flight
- (1) AT 36500 Instrument Flight Instructor Flight – (1) AFLT 280 – Instrument Flight Instruction Airplane
- (1) AT 36800 Aerobatic Flight – (1) AFLT 292 – Precision Flight Maneuvers

- (3) AT 26502 Aircraft Electrical Systems – (3) AMNT 104 – Introduction to Electricity
- (3) AT 30802 Aircraft Materials Processes – (3) AMNT 106 – Materials, Processes, & Welding
- (3) AT 26300 Fluid Power Systems – (3) AMNT 107 – Hydraulics & Pneumatics
- (3) AT 20802 Aircraft Materials – (3) AMNT 162 – Aircraft Sheetmetal
- (3) AT 27200 Introduction to Composite Technology – (3) AMNT 166 – Composite and Nonmetallic Structures
- (3) AT 33502 Avionics Systems – (3) AMNT 167 – Aircraft Electrical
- (3) AT 37002 Advanced Aircraft Powerplants – (3) AMNT 204 – Reciprocating Engine Overhaul
- (3) AT 36302 Fundamentals of Powerplant Systems – (3) AMNT 206 – Powerplant Systems & Propellers
- (3) AT 36700 Aircraft Gas Turbine Engine Technology I – (3) AMNT 262 – Turbine Engines
- (3) AT 37200 Aircraft Maintenance Practices – (3) AMNT 266 – Aircraft Inspection
- (2) AT 30300 Aircraft Service – (3) AMNT 264 – Aircraft Engine Installation & Troubleshooting