

**Departmental/Program Major Courses (107 credits)**

**Required Major Courses (33 credits)**

- \_\_\_\_\_ (3) AT 33800 Airline Management
- \_\_\_\_\_ (3) AT 35900 Airport Management
- \_\_\_\_\_ (3) AT 38100 Aviation Security
- \_\_\_\_\_ (3) AT 41200 Aviation Finance
- \_\_\_\_\_ (3) AT 45400 Human Factors in Aviation
- \_\_\_\_\_ (3) AT 48100 Aviation Safety Problems
- \_\_\_\_\_ (3) AT 49000 Aviation Critical Thinking
- \_\_\_\_\_ (3) AT 49001 Design and Support for Aircraft Performance
- \_\_\_\_\_ (3) AT 49800 AT Capstone
- \_\_\_\_\_ (3) AT 23300 Ethics and Aviation
- \_\_\_\_\_ (3) TLI 21300 Project Management

**Other Departmental /Program Course Requirements (74 credits)**

- \_\_\_\_\_ (3) Humanities Foundational Selective<sup>3</sup> (*satisfies Human Cultures: Humanities for core*)
- \_\_\_\_\_ (3) Behavioral/Social Science Foundational Selective<sup>4</sup> (*satisfies Human Culture: Behavioral/Social Science for core*)
- \_\_\_\_\_ (3) TECH 12000 – Technology and the Individual (*satisfies Science, Technology, & Society for core*)<sup>4</sup>
- \_\_\_\_\_ (4) PHYS 22000 – Physics (*satisfies Science Selective for core*)
- \_\_\_\_\_ (3) Science Foundational Selective<sup>5</sup> (*satisfies Science Selective for core*) – [PHYT 101 & 101L – Technical Physics](#)
- \_\_\_\_\_ (3) English Composition Selective<sup>6</sup> (*satisfies Written Communication for core*) – [ENGL 101 – English Composition I](#)
- \_\_\_\_\_ (3) COM 11400 – Fundamentals of Speech Communication<sup>7</sup> (*satisfies Oral Communication for core*) – [COMM 143 - Speech](#)
- \_\_\_\_\_ (3) MA 15300 – Algebra & Trig I<sup>8</sup> (*satisfies Quantitative Reasoning Selective for core*) – [MATH 102 – College Algebra](#)
- \_\_\_\_\_ (3) MA 15800 – Precalculus
- \_\_\_\_\_ (3) Economics Selective<sup>9</sup> – [ECON 208 – Personal Finance Management](#)
- \_\_\_\_\_ (3) Advanced English Selective<sup>10</sup>
- \_\_\_\_\_ (3) Technical Communications Selective<sup>11</sup>
- \_\_\_\_\_ (3) STAT 30100 – Elementary Statistical Methods (*satisfies Information Literacy Selective for core*)
- \_\_\_\_\_ (34) Any departmentally-approved thematic area of study<sup>12</sup>
- \_\_\_\_\_ (0) Globalization<sup>13</sup>

**Free Electives (13 credits)**

- (3) \_\_\_\_\_ (3) \_\_\_\_\_ (3) \_\_\_\_\_
- (2) \_\_\_\_\_ (2) \_\_\_\_\_ (3) \_\_\_\_\_

**University Core Requirements**

Human Cultures	<input type="checkbox"/>	<b>UCC Selective</b>	Science, Technology & Society Selective	<input type="checkbox"/>	<b>TECH 12000</b>
Humanities	<input type="checkbox"/>		Written Communication	<input type="checkbox"/>	<b>ENGL 10100 (ENGL 10100)</b>
Human Cultures	<input type="checkbox"/>	<b>UCC Selective</b>	Oral Communication	<input type="checkbox"/>	<b>COM 11400 (COMM 143)</b>
Behavioral/Social Science	<input type="checkbox"/>		Quantitative Reasoning	<input type="checkbox"/>	<b>MA 15300 (MATH 102)</b>
Information Literacy	<input type="checkbox"/>	<b>STAT 30100</b>			
Science Selective	<input type="checkbox"/>	<b>PHYS 22000</b>			
Science Selective	<input type="checkbox"/>	<b>PHYS 21400 (PHYT 101 &amp; 101L)</b>			

\*\*\*\*\*

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 registration in 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.
- 120 semester credits required for Bachelor of Science degree.
- 2.0 Graduation GPA required for Bachelor of Science degree.
- NOTE: Students must complete 32 credit hours of 30000 or 40000 level classes while a PURDUE student at the Purdue location conferring the degree; this is REQUIRED.

## Aeronautical Technology (201910)

**RED** print denotes Maintenance courses for Purdue and VU; **BLUE** print is used for Flight courses. Numbers in parentheses below denote the number of credits utilized for the VU course shown to satisfy the Purdue course to the left.

FIRST SEMESTER (Purdue courses)	Vincennes	CR	SECOND SEMESTER	Vincennes	CR
Thematic Area Selective AT 10000 - Introduction to Aviation Technology	(1/4) AMNT 164 (1/4) AFLT 100	1	Thematic Area Selective AT 10300 - Aerospace Vehicle Propulsion	(3/4) AMNT 202 (2/3) AFLT 210 & (1/2) AFLT 225	3
Thematic Area Selective AT 10600 – Basic Aircraft Science	(3/4) AMNT 102 (3/3) AFLT 181	3	Thematic Area Selective (3) AT 27200 – Introduction to Composite Technology (2) AT 24300 – Commercial Flight I (1) AT 21000 – Ground Trainer	(3) AMNT 166 (2/2) AFLT 186 (1/1) AFLT 225L	3
Thematic Area Selective (2) AT 30300 – Aircraft Service  (2) AT 24800 - Commercial Flight II	(2/4) AMNT 264  (2/2) AFLT 218	2	Thematic Area Selective (3) AT 30802 – Aircraft Materials Processes (2) AT 25300 – Instrument Flight (1) AT 35300 – Multiengine Flight	(3/4) AMNT 106  (2/3) AFLT 176 (1/2) AFLT 283	3
MA 15300 – Algebra & Trig I	(3/3) MATH 102	3	Thematic Area Selective (4) AT 18700 – Aircraft Propulsion & Operating Systems (4) AT 14400 – Private Pilot Lectures	(4/4) AMNT 207  (3/4) AFLT 100 (1/2) AFLT 106	4
Thematic Area Selective (3) AT 26502 – Aircraft Electrical Systems (2) AT 14500 – Private Pilot Flight (1) AT 24500 – Cross-Country Flight	(3/4) AMNT 104 (2/2) AFLT 105 (1/2) AFLT 106	3	Thematic Area Selective (3) AT 26300 – Fluid Power Systems (3) AT 28500 ATC Procedures and Weather	(3/4) AMNT 107 (3/3) AFLT 285	3
English Composition Selective <sup>6</sup>	(3/3) ENGL 101	3			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>16</b>

THIRD SEMESTER	Vincennes	CR	FOURTH SEMESTER	Vincennes	CR
Economics Selective <sup>9</sup> (3) CSR 34200 – Personal Finance	(3/3) ECON 208	3	Thematic Area Selective AT 20200 - Aerospace Vehicle Systems	(3/4) AMNT 164 (1/3) AFLT 210 & (1/4) AFLT 221 & (1/2) AFLT 225	3
Science Foundational Selective <sup>3</sup> (3) PHYS 21400 – The Nature of Physics	(3/3) PHYT 101 & 101L	3	COM 11400 - Fundamentals of Speech Communication <sup>7</sup>	(3/3) COMM 143	3
Free Elective		3	Thematic Area Selective (3) AT 36302 – Fundamentals of Powerplant Systems (3) AT 47500 – Aviation Law	(3/4) AMNT 206  (3/3) AFLT 291	3
Free Elective		2	Behavioral/Social Science Foundational Selective <sup>4</sup>	(See Supplemental Page)	3
Humanities Foundational Selective <sup>3</sup>	(See Supplemental Page)	3	Thematic Area Selective (3) AT 37002 – Advanced Aircraft Powerplants (3) AT 24900 – Instrument Flight Lectures	(3/4) AMNT 204 (3/4) AFLT 221	3
<b>Total</b>		<b>14</b>	<b>Total</b>		<b>15</b>

<b>FIFTH SEMESTER</b>	<b>Vincennes</b>	<b>CR</b>	<b>SIXTH SEMESTER</b>	<b>Vincennes</b>	<b>CR</b>
AT 33800 – Airline Management		3	AT 41200 – Aviation Finance		3
MA 15800 – Precalculus		3	AT 49000 – Aviation Critical Thinking		3
AT 48100 – Aviation Safety Problems		3	TLI 21300 – Project Management		3
Technical Communication Selective <sup>11</sup>		3	Advanced English Selective		3
TECH 12000 - Design Thinking in Technology		3	TECH 330 – Technology and the Global Society Globalization <sup>13</sup>		3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

<b>SEVENTH SEMESTER</b>	<b>Vincennes</b>	<b>CR</b>	<b>EIGHTH SEMESTER</b>	<b>Vincennes</b>	<b>CR</b>
AT 35900 – Airport Management		3	AT 49800 – AT Capstone	Senior Standing	3
AT 38100 – Aviation Security		3	Free Elective		3
AT 45400 – Human Factors in Aviation		3	AT 49001 – Design & Support for Aircraft Performance		3
STAT 30100 – Elementary Statistical Methods		3	Free Elective		3
Free Elective		2	PHYS 22000 – General Physics		4
<b>Total</b>		<b>14</b>	<b>Total</b>		<b>16</b>

## AERT Supplemental Information

All prerequisites must be met.

Courses that are **ORANGE** represent the VU Maintenance feeder A.S. degree courses that VU students will transfer in.

Courses that are **TEAL** represent the VU Flight feeder A.S. degree courses that VU students will transfer in.

Courses that are **BLUE** represent the courses that BOTH feeder A.S. degree courses that VU students will transfer in.

Courses that are **PURPLE** represent the 30000 level and 40000 level courses that VU students will take as Purdue students.

### <sup>3</sup>Humanities Foundational Selective (3 credits)

ARTT 110 Art Appreciation (AD 25500 Art Appreciation)  
ARTT 116 Drawing I (AD 11300 Basic Drawing)  
ARTT 130 Art History I (AD 22700 History of Art to 1400)  
ARTT 131 Art History II (AD 22700 History of Art since 1400)  
ARTT 213 Ceramics I (AD 24200 Ceramics I)  
ARTT 215 Sculpture I (AD 27500 Beginning Sculpture)  
FACS 156 Marriage and the Family (CDFS 1XXXX Marriage and the Family)  
GRM 101 German 1 (GER 10100 German Level I/GER 1XXXX German Level I)  
PHIL 111 Intro to Philosophy (PHIL 11000 Intro to Philosophy)  
PHIL 212 Intro to Ethics (PHIL 11100 Ethics)  
SPAN 101 Spanish 1 (SPAN 10100 Spanish Level I/SPAN 1XXXX Spanish Level I)  
THEA 100 Theatre Appreciation (THTR 20100 Theatre Appreciation)  
HIST 125 History of American Technology (HIST 1XXXX –History of American Technology)  
HIST 139 American History I (HIST 15100 American History to 1877)  
HIST 140 American History II (HIST 15200 US Since 1877)  
HIST 235 History of World Civilization I (HIST 2XXXX – World Civilization I)  
LITR 227 Intro to World Fiction (ENGL 23800 Intro to Fiction)

### <sup>4</sup>Behavioral/Social Science Foundational Selective (3 credits)

PSYC 101 Introduction to Psychology (PSY 12000 Elementary Psychology)  
PSYC 142 General Psychology (PSY 12000 Elementary Psychology)  
SOCL 151 Principles of Sociology (SOC 10000 Introductory Sociology)  
SOCL 154 Cultural Anthropology (ANTH 10000 Introductory Anthropology)  
ECON 100 Elements of Economics (ECON 21000 Principles of Economics)  
ECON 201 Microeconomics (ECON 25100 Microeconomics)  
ECON 202 Macroeconomics (ECON 25200 Macroeconomics)  
POLS 111 American National Government (POL 10100 American Government)  
POLS 211 Intro to World Politics (POL 13000 Intro to International Relations)  
POLS 220 Public Administration (POL 12000 Intro to Public Policy & Public Administration)  
SOCL 252 Social Problems (SOC 22000 Social Problems)

### <sup>5</sup>Science Foundation Selective (*satisfies Science Selective for core, 3 credits*)

PHYT 101 & PHYT 101L – Technical Physics (PHYS 21400 – The Nature of Physics)

### <sup>6</sup>English Composition Selective (*satisfies Written Communication for core, 3 credits*)

ENGL 101 – English Composition I (ENGL 10100 – English Composition I)

### <sup>7</sup>Oral Communication Selective (*satisfies Oral Communication for core, 3 credits*)

COMM 143 – Speech (COM 11400 Fundamentals of Speech)

### <sup>8</sup>MA 15300 – Algebra & Trig I (*satisfies one of the Quantitative Reasoning for core*) (3 credits)

MATH 102 – College Algebra

### <sup>9</sup>Economics Selective

ECON 208 – Personal Financial Management (CSR 34200 – Personal Finance)

### <sup>10</sup>Advanced English Selective (3 credits)

ENGL 42100 – Technical Writing

### <sup>11</sup>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

### <sup>12</sup>Thematic Area Selective Requirement (34 credits)

**VU Aviation Maintenance Courses shown to the right satisfy Purdue Aviation courses on the left margin, below.**

(1) AT 10000	Introduction to Aviation Technology – (1) AMNT 164 – Aircraft Systems
(3) AT 10300	Aerospace Vehicle Propulsion and Tracking Systems – (3) AMNT 202 – Power plant Fuel & Induction Systems
(3) AT 10600	Basic Aircraft Science – (3) AMNT 102 – General Aviation Maintenance
(3) AT 20200	Aerospace Vehicle Systems Design, Analysis and Operations – (3) AMNT 164 – Aircraft Systems
(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 Sheet metal
(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 – Power plant Systems & Propellers
(4) AT 18700	Aircraft Propulsion and Operating Systems – (4) AMNT 207 – Power plant Electrical
(3) AT 36700	Aircraft Gas Turbine Engine Technology I – (3) AMNT 262 – Turbine Engines
(2) AT 30300	Aircraft Service – (3) AMNT 264 – Aircraft Engine Installation & Troubleshooting
(3) AT 37200	Aircraft Maintenance Practices – (3) AMNT 266 – Aircraft Inspection

### **VU Aviation Flight**

(1) AT 10000	Introduction to Aviation Technology – (1) AFLT 100 – Private Pilot Ground School
(3) AT 10300	Aerospace Vehicle Propulsion & Tracking Systems – (2) AFLT 210 – Aircraft Systems, Performance and Aerodynamics (1) AFLT 225 – Human Factors CRM & Safety
(3) AT 10600	Basic Aircraft Science – (3) AFLT 181 – Commercial Ground School
(4) AT 14400	Private Pilot Lectures – (3) AFLT 100 – Private Pilot Ground School; (1) AFLT 106 - Private Pilot Flight II
(3) AT 20200	Aerospace Vehicle Systems Design, Analysis and Operations – (1) AFLT 210 – Aircraft Systems, Performance and Aerodynamics; (1) AFLT 221 – Instrument Ground; (1) AFLT 225 – Human Factors CRM & Safety
(2) AT 14500	Primary Flight – (2) AFLT 105 – Private Pilot Flight I
(2) AT 24300	Commercial Flight I – (2) AFLT 186 – Commercial Flight I
(1) AT 21000	Ground Trainer – (1) AFLT 225L – Human Factors CRM & Safety Lab
(1) AT 24500	Cross-Country Flight – (1) AFLT 106 – Private Pilot Flight II
(2) AT 24800	Commercial Flight II – (2) AFLT 218 – Commercial Flight II
(3) AT 24900	Instrument Flight Lectures – (3) AFLT 221 – Instrument Ground
(2) AT 25300	Instrument Flight – (2) AFLT 176 – Instrument Flight
(3) AT 28500	ATC Procedures and Weather – (3) AFLT 285 – Aviation Weather
(1) AT 35300	Multiengine Flight – (1) AFLT 283 – Commercial Multi Engine Flight
(3) AT 47500	Aviation Law – (3) AFLT 291 – Aviation Law & Regulations

### <sup>13</sup>Globalization Requirement

(3) TECH 33000 Technology and the Global Society  
(3) TLI 35600 Global Technology Leadership

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 12<sup>th</sup> birthday
- Transfer students at the Indianapolis location are required to complete one approved course.