

Departmental/Program Major Courses (111 credits)

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

| | | | |
|-------|------|--|---|
| _____ | (1) | AT 10000 | Introduction to Aviation Technology |
| _____ | (3) | AT 10200 | Aviation Business |
| _____ | (3) | AT 10300 | Aerospace Vehicle Propulsion and Tracking Systems |
| _____ | (3) | AT 10600 | Basic Aircraft Science |
| _____ | (4) | AT 14400 | Private Pilot Lectures |
| _____ | (3) | AT 20200 | Aerospace Vehicle Systems Design, Analysis and Operations |
| _____ | (3) | AT 20300 | Aviation Operations Management |
| _____ | (3) | AT 49800 | AT Capstone |
| _____ | (36) | AOT Selectives ² (See Supplemental Information) | |

Other Departmental /Program Course Requirements (52 credits)

| | | | |
|-------|------|---|--|
| _____ | (3) | Humanities Foundational Selective ³ (<i>satisfies Human Cultures: Humanities for core</i>) | |
| _____ | (3) | Behavioral/Social Science Foundational Selective ⁴ (<i>satisfies Human Culture: Behavioral/Social Science for core</i>) | |
| _____ | (3) | TECH 12000 – Technology and the Individual (<i>satisfies Science, Technology, & Society for core</i>) ⁴ | |
| _____ | (4) | PHYS 21800 – General Physics (<i>satisfies Science Selective for core</i>) | |
| _____ | (3) | Science Foundational Selective ⁵ (<i>satisfies Science Selective for core</i>) – PHYT 101 & 101L – Technical Physics | |
| _____ | (3) | English Composition Selective ⁶ (<i>satisfies Written Communication for core</i>) – ENGL 101 – English Composition I | |
| _____ | (3) | COM 11400 – Fundamentals of Speech Communication ⁷ (<i>satisfies Oral Communication for core</i>) – COMM 143 - Speech | |
| _____ | (3) | MA 15300 – Algebra & Trig I ⁸ (<i>satisfies Quantitative Reasoning Selective for core</i>) – MATH 102 – College Algebra | |
| _____ | (3) | MA 15800 – Precalculus | |
| _____ | (3) | Economics Selective ⁹ – ECON 208 – Personal Finance Management | |
| _____ | (3) | Advanced English Selective ¹⁰ | |
| _____ | (3) | Technical Communications Selective ¹¹ | |
| _____ | (3) | STAT 30100 – Elementary Statistical Methods (<i>satisfies Information Literacy Selective for core</i>) | |
| _____ | (12) | Any University-approved minor or departmentally-approved thematic area of study ¹² | |
| _____ | (0) | Globalization ¹³ | |

Free Electives (9 credits)

| | | | | | | |
|-------|-----|-------|-----|-------|-----|-------|
| _____ | (3) | _____ | (3) | _____ | (3) | _____ |
|-------|-----|-------|-----|-------|-----|-------|

University Core Requirements

| | | | | | |
|---------------------------|--------------------------|---|---|--------------------------|--------------------------------|
| Human Cultures | <input type="checkbox"/> | UCC Selective | Science, Technology & Society Selective | <input type="checkbox"/> | TECH 12000 |
| Humanities | <input type="checkbox"/> | UCC Selective | Written Communication | <input type="checkbox"/> | ENGL 10100 (ENGL 10100) |
| Human Cultures | <input type="checkbox"/> | UCC Selective | Oral Communication | <input type="checkbox"/> | COM 11400 (COMM 143) |
| Behavioral/Social Science | <input type="checkbox"/> | STAT 30100 | Quantitative Reasoning | <input type="checkbox"/> | MA 15300 (MATH 102) |
| Information Literacy | <input type="checkbox"/> | PHYS 21800 | | | |
| Science Selective | <input type="checkbox"/> | PHYS 21400 (PHYT 101 & 101L) | | | |
| Science Selective | <input type="checkbox"/> | | | | |

The student is ultimately responsible for knowing and completing all degree requirements.

MyPurduePlan is the 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 take 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 (201710)

| FIRST SEMESTER | Vincennes | CR | SECOND SEMESTER | Vincennes | CR |
|---|--|-----------|--|--|-----------|
| AT 10000 - Introduction to Aviation Technology | (1/4) AMNT 164 (1/5) AFLT 100 | 1 | AT 10300 - Aerospace Vehicle Propulsion | (3/4) AMNT 202 (2/2) AFLT 160 & (1/2) AFLT 205 | 3 |
| AT 10600 – Basic Aircraft Science | (3/4) AMNT 102 (3/3) AFLT 181 | 3 | AOT Selective (3) AT 27200 – Introduction to Composite Technology (2) AT 24300 – Commercial Flight I (1) AT 21000 – Ground Trainer | (3) AMNT 166 (2) AFLT 186 (1) AFLT 205L | 3 |
| AOT Selective* (2) A T 30300 – Aircraft Service | (2/4) AMNT 264 | 2 | AOT 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 296 | 3 |
| MA 15300 – Algebra & Trig I | (3/3) MATH 102 | 3 | AOT Selective* (4) AT 18700 – Aircraft Propulsion & Operating Systems | (4/4) AMNT 207 | 4 |
| AOT Selective (3) AT 26502 – Aircraft Electrical Systems (2) AT 14500 – Private Pilot Flight (1) AT 24500 – Cross-Country Flight | (3/4) AMNT 104 (2/3) AFLT 105 (1/2) AFLT 170 | 3 | AOT Selective (3) AT 26300 – Fluid Power Systems (2) AT 24800 – Commercial Flight II (1) AT 36500 Instrument Flight Instructor Flight | (3/4) AMNT 107 (2/3) AFLT 216 (1/2) AFLT 280 | 3 |
| English Composition Selective | (3/3) ENGL 101 | 3 | | | |
| Total | | 15 | Total | | 16 |

| THIRD SEMESTER | Vincennes | CR | FOURTH SEMESTER | Vincennes | CR |
|---|--------------------------|-----------|--|--|-----------|
| Economics Selective ⁷ (3) CSR 34200 – Personal Finance | (3/3) ECON 208 | 3 | AT 20200 - Aerospace Vehicle Systems (AT 10600 or AT 14400 is prerequisite) | (3/4) AMNT 164 (2) AFLT 210 & (1) AFLT 205 | 3 |
| Science Foundational Selective ³ (3) PHYS 21400 – The Nature of Physics | (3/3) PHYT 101 & 101L | 3 | COM 11400 - Fundamentals of Speech Communication ⁵ | (3/3) COMM 143 | 3 |
| AOT Selective* (3) AT 33502—Avionics Systems | (3/4) AMNT 167 | 3 | AOT Selective (3) AT 36302 – Fundamentals of Powerplant Systems (2) AT 35200 – Flight Instructor Lectures (1) AT 36800 – Aerobatic Flight | (3/4) AMNT 206 (2/2) AFLT 261 & (3/3) AFLT 263 (1/2) AFLT 292 | 3 |
| AT 14400 – Private Pilot Lectures | (4/5) AFLT 100 | 4 | Behavioral/Social Science Found. Selective | (See Supplemental Page) | 3 |
| Humanities Foundational Selective | (See Supplemental Page) | 3 | AOT Selective (3) AT 37002 – Advanced Aircraft Powerplants (3) AT 24900 – Instrument Flight Lectures | (3/4) AMNT 204 (3/5) AFLT 221 | 3 |
| Total | | 16 | Total | | 15 |

| FIFTH SEMESTER | Vincennes | CR | SIXTH SEMESTER | Vincennes | CR |
|---|-----------|-----------|---|-----------|-----------|
| AT 10200 - Aviation Business | | 3 | AT 20300 - Aviation Operations Management (AT 10200 is prerequisite) | | 3 |
| MA 15800 – Precalculus | | 3 | AOT Selective** | | 3 |
| Free Elective | | 3 | Thematic Area Selective** | | 3 |
| STAT 30100 – Elementary Statistical Methods** | | 3 | Advanced English Selective** | | 3 |
| TECH 12000 - Technology and the Individual | | 3 | PHYS 21800 – General Physics | | 4 |
| Total | | 15 | Total | | 16 |

| SEVENTH SEMESTER | Vincennes | CR | EIGHTH SEMESTER | Vincennes | CR |
|-------------------------------------|-----------|-----------|-----------------------------|-----------------|-----------|
| AOT Selective** | | 3 | AT 49800 – AT Capstone** | Senior Standing | 3 |
| AOT Selective** | | 3 | Free Elective** | | 3 |
| Thematic Area Selective** | | 3 | Thematic Area Selective** | | 3 |
| Technical Communication Selective** | | 3 | Thematic Area Selective** | | 3 |
| Free Elective** | | 3 | Globalization ¹¹ | | 0 |
| | | | | | |
| Total | | 15 | Total | | 12 |

*VU Flight Students must take 32 credit hours of 30000 or 40000 level classes while a PURDUE student - this is REQUIRED.

*VU Maintenance Students must take 32 credit hours of 30000 or 40000 level classes while a PURDUE student - this is REQUIRED.

AERT Supplemental Information

All prerequisites must be met; exceptions must be approved by the Director of the location .

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.

¹Required Major Courses

AT 10000 – Introduction to Aviation Technology – (1) **AMNT 164 – Aircraft Systems** or (1) **AFLT 100 – Primary Ground School**
AT 10300 – Aerospace Vehicle Propulsion and Tracking Systems – (3) **AMNT 202 – Powerplant Fuel & Induction Systems** or (2) **AFLT 160 – Powerplant Lecture** & (1) **AFLT 205 – Advanced Simulation**
AT 10600 – Basic Aircraft Science – (3) **AMNT 102 – General Aviation Maintenance** or (3) **AFLT 181 – Commercial Ground School**
AT 14400 – Private Pilot Lectures – (4) **AFLT 100 – Primary Ground School**
AT 20200 – Aerospace Vehicle Systems Design, Analysis and Operations – (3) **AMNT 164 – Aircraft Systems** or (1) **AFLT 205 – Advanced Simulation** & (2) **AFLT 210 – Instrument Radios & Systems**

²AOT Selectives – Possible Selectives listed below:

(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**
(4) AT 18700 Aircraft Propulsion and Operating Systems – (4) **AMNT 207 – Powerplant 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**

(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**
(2) AT 35200 Flight Instructor Lectures – (2) **AFLT 261 – Aviation Instructor Fundamentals** & (3) **AFLT 263 – Flight Training Techniques**
(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**

³Humanities 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)

⁴Behavioral/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)

⁵Science Foundation Selective (*satisfies Science Selective for core, 3 credits*)

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

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

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

⁷Oral Communication Selective (*satisfies Oral Communication for core, 3 credits*)

COMM 143 – Speech (COM 11400 Fundamentals of Speech)

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

MATH 102 – College Algebra

⁹Economics Selective

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

¹⁰Advanced English Selective (3 credits)

ENGL 42100 – Technical Writing

¹¹Technical 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

¹²Thematic 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

¹³Globalization Requirement

Due to the international nature of the aviation industry, all students transferring to the Purdue Polytechnic Indianapolis Aeronautical Technology program must complete one of the following options:

- Participate in a Purdue University international capstone, collaborative project, or
- Participate in an international internship (international location), or
- Participate in Faculty-led Study Abroad program, or
- Participate in a full semester abroad program, or
- Complete 3 credit hours from the Polytechnic list of recommended Global/ Cultural courses.
- Note that students with prior military duty that includes a foreign posting meeting minimum, approved time requirements may have satisfied the Globalization requirement.