

## AVIATION TECHNOLOGY, AERONAUTICAL ENGINEERING TECHNOLOGY

ENTERING DATE AUGUST, 2011

NAME: \_\_\_\_\_

FIRST SEMESTER	SUBSTITUTE	GR	CR	SECOND SEMESTER	SUBSTITUTE	GR	CR
AT 101 - Gateway to Aviation Technology			3	AT 103 - Aerospace Vehicle Propulsion & Tracking			3
ENGL Selective – English Composition			3	AT 278** - Nondestructive Testing			3
MA 159 – Precalculus			5	PSY 120 – Elementary Psychology			3
TECH 120 - Technology and the Individual			3	MET 162 - Computational Analysis Tools In MET			1
POL Selective <sup>1</sup>			3	COM 114 - Fundamentals of Speech Communication			3
				Calculus Selective <sup>1</sup>			3
<b>Total</b>			<b>17</b>	<b>Total</b>			<b>16</b>

THIRD SEMESTER	SUBSTITUTE	GR	CR	FOURTH SEMESTER	SUBSTITUTE	GR	CR
AT 201 - Aircraft Design & Structures			3	AT 102 - Aviation Business			3
AT 202 - Aerospace Vehicle Systems Design, Analysis & Operations			3	Minor Selective (AT 208 for the A&P)*			3
Minor Selective (CGT 163 for A&P)			2	Minor Selective (AT265 for the A&P)**			3
AT 267* - Fixed And Rotary Wing Assemblies			3	PHYS 218 – General Physics			4
MET 111 - Applied Statics			3	ECON Selective <sup>1</sup>			3
<b>Total</b>			<b>14</b>	<b>Total</b>			<b>16</b>

FIFTH SEMESTER	SUBSTITUTE	GR	CR	SIXTH SEMESTER	SUBSTITUTE	GR	CR
AT 203 - Aviation Operations Management			3	AT 308** - Aircraft Materials Processes			3
AT 272* - Introduction To Composite Technology			3	AT 335** - Avionics Systems			4
AT 376 - Aircraft Gas Turbine Engine Technology I			3	AT 370** - Advanced Aircraft Systems			3
AT 363* - Fundamentals Of Powerplant Systems			3	TECH 330 - Technology and the Global Society			3
STAT 301 - Elementary Statistical Methods			3	Adv. ENGL Sel <sup>1</sup>			3
<b>Total</b>			<b>15</b>	<b>Total</b>			<b>16</b>

SEVENTH SEMESTER	SUBSTITUTE	GR	CR	EIGHTH SEMESTER	SUBSTITUTE	GR	CR
AT 307* - Advanced Aircraft Systems			3	AT 372 - Aircraft Maintenance Practices			3
AT 476 - Aircraft Gas Turbine Engine Technology II			3	AT 497** - Applied Research Project			3
AT 496* - Applied Research Proposal			1	Elective			3
(AT477 for the A&P)			0	Minor Selective (AT 402 for the A&P)			4
AT 445 - Aircraft Electronics			4	TECH COM <sup>1</sup>			3
TECH 320 - Technology and the Organization			3	Globalization <sup>2</sup>			0
<b>Total</b>			<b>14</b>	<b>Total</b>			<b>16</b>

<sup>1</sup> Information about selective courses, and <sup>2</sup> Globalization Requirements may be found on the reverse side of this sheet.

\* Indicates course offered only fall semester.

\*\* Indicates course offered only spring semester.

# AVIATION TECHNOLOGY: AERONAUTICAL ENGINEERING TECHNOLOGY

## 1 Selectives

POL - POL 10100 or POL 10300

ENGL – ENGL 10600 or ENGL 10800

Calculus – MA 22100 or MA 22300

Lab Science (8 credits of LAB science from the College of Science)

ECON (3 credits)

ECON 21000

ECON 25100\*

ECON 25200\*

\*(required if pursuing a minor in management)

Adv Engl Selective – ENGL 42000 or ENGL 42100

TECH/COM – COM 31500, 32000, 32400, or 41500

## 2 Globalization

Due to the international nature of the aviation industry, all B.S. degree students must complete a globalization requirement using 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
- Provide documentation of having lived/traveled outside the U.S. for at least 15 days after a student's 12<sup>th</sup> birthday.
- Complete or place out of the Level IV course in any foreign language.

## Air Traffic Control

Any student from the AT curriculum is eligible to complete the FAA CTI program. A detailed explanation of the curriculum is available online at

[www.tech.purdue.edu/at](http://www.tech.purdue.edu/at); the courses that need to be completed to qualify for CTI recommendation in addition to the BS degree in Aero. Engr. Tech. are:

AT 36900            AT 28500

AT 47900

## Capstone Credit (3 credit hours)

AT 49600 and AT 49700

## Minor or Thematic Area (12 credit hour minimum)

Students must complete 12 credit hours in one of the following areas:

Any university approved minor. Some of the possible minors include:

Foreign language such as: Chinese, French, German, Italian, Japanese, Russian, Spanish and Portuguese  
Environmental politics and policy

Law and society

Political science

Psychology

Economics

Management

Earth and atmospheric science

International studies

Mathematics

Physics

Statistics

Biotechnology

End-user computing

Organizational leadership and supervision

-----< OR >-----

9 credit hours towards a M.S. degree & at least 3 credit hours of 300-400 level electives

-----< OR >-----

Any approved thematic group of at least 12 credit hours in one of the following areas:

Aeronautical Engineering Technology

Agriculture

Engineering or Science

Data Analysis and/or Computer Systems

Industrial Organization, Manufacturing and Safety

Government Policy

Travel and Tourism

Entrepreneurship and Business

Logistics

Foreign Language

Management and/or Economics

Atmospheric Science

Political Science

Public Relations

Statistics

## Airframe & Powerplant Certificate

Students are highly encouraged to enroll in the following courses in order to receive the FAA A&P certificate. These courses can be utilized to meet the Minor or Thematic Area graduation requirements.

CGT 16300

AT 20800\*

AT 26500\*\*

AT 40200

AT 47700

**Seeking A&P certificate:**

Yes \_\_\_\_\_

No \_\_\_\_\_