PURDUE UNIVERSITY

Aeronautical Engineering Technology

Purdue Polytechnic Institute

AENT
120 credits for graduation

Departmental/Program Major Courses (116 credits)

Required Major Courses (59 credits)

_____	(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
_____	(3)	AT 20200	Aerospace Vehicle Systems Design, Analysis and Operations
_____	(3)	AT 20300	Aviation Operations Management
_____	(1)	AT 49600	Applied Research Proposal
_____	(3)	AT 49700	Applied Research Project
_____	(3)	AT 20802	Aircraft Materials
_____	(3)	AT 26502	Aircraft Electrical Systems
_____	(3)	AT 26700	Fixed & Rotary Wing Assemblies
_____	(3)	AT 27200	Introduction to Composite Technology
_____	(3)	AT 27800	Nondestructive Testing for Aircraft
_____	(3)	AT 30702	Advanced Aircraft Systems
_____	(3)	AT 30802	Aircraft Materials Processes
_____	(3)	AT 33502	Avionics Systems
_____	(3)	AT 37002	Aircraft Powerplant Technology
_____	(3)	AT 37600	Aircraft Gas Turbine Engine Technology
_____	(3)	AT 38500	Design Support Analysis
_____	(3)	AT 44502	Aircraft Electronics
_____	(3)	AT 47600	Aircraft Gas Turbine Engine Technology II

Other Departmental /Program Course Requirements (57 credits)

_____	(3)	Humanities Foundational Selective *(satisfies Human Cultures Humanities for core)*
_____	(3)	Behavioral/Social Science Foundational Selective (satisfies Human Culture Behavioral/Social Science for core)
_____	(3)	TECH 12000 *(satisfies Information Literacy Selective for core)*
_____	(4)	PHYS 21800 *(satisfies Science Selective for core)*
_____	(3)	Science Foundational Selective *(satisfies Science Selective for core)*
_____	(3)	ENGL 10600 or ENGL 10800 *(satisfies Written Communication for core)*
_____	(3)	COM 11400 *(satisfies Oral Communication for core)*
_____	(3)	MA 15800 (satisfies *Quantitative Reasoning Selective* for core)
_____	(3)	MA 22100 or MA 16010 (satisfies *Quantitative Reasoning Selective* for core)
_____	(3)	Economics Selective
_____	(3)	Advanced English Selective
_____	(3)	Technical Communications Selective
_____	(3)	STAT 30100
_____	(3)	AT 20501
_____	(2)	CGT 16300
_____	(12)	Any University-approved minor or departmentally-approved thematic area of study

Electives (4 credits)

_____	(4)	**Free Electives**	_____	( )	_____	_____	( )	_____	_____	( )	_____
_____	( )	_____	_____	( )	_____	_____	( )	_____	_____	( )	_____

University Core Requirements

Human Cultures Humanities	☐ **UCC Selective**	*Science, Technology & Society Selective*	☐ **TECH 12000**
Human Cultures Behavioral/Social Science	☐ **UCC Selective**	*Written Communication*	☐ **ENGL 10600 / 10800**
Information Literacy	☐ **TECH 12000**	*Oral Communication*	☐ **COM 11400**
Science Selective	☐ **PHYS 21800**	*Quantitative Reasoning*	☐ **MA 15800**
Science Selective	☐ **UCC Selective**	*Quantitative Reasoning*	☐ **UCC Calculus Selective**

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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.

Aeronautical Engineering Technology (201610) Revised 11/2014 (effective Fall 2015)

FIRST SEMESTER	Prerequisite	CR	SECOND SEMESTER	Prerequisite	CR
AT 10000 - Introduction to Aviation Technology		1	AT 20802 – Aircraft Materials	AT 10600	3
AT 10200 - Aviation Business		3	CGT 16300 – Graphical Comm. & Spatial Anal.		2
AT 10600 – Basic Aircraft Science		3	COM 11400 - Fundamentals of Speech Communication		3
TECH 12000 - Technology and the Individual		3	Humanities Foundational Selective		3
MA 15800 – Precalculus		3	Calculus Selective		3
English Composition Selective		3			
Total		**16**	**Total**		**14**

THIRD SEMESTER	Prerequisite	CR	FOURTH SEMESTER	Prerequisite	CR
AT 10300 - Aerospace Vehicle Propulsion and Tracking Systems		3	AT 20501 – Statics for Aerostructures	AT 10100 or AT 10600, CGT 16300, (MA 22100 or MA 16010)	3
AT 20200 - Aerospace Vehicle Systems	AT 10600 or AT 14400	3	AT 26502 – Aircraft Electrical Systems	AT 20200	3
AT 20300 - Aviation Operations Management	AT 10200	3	AT 27800 - Nondestructive Testing for Aircraft		3
AT 26700 - Fixed And Rotary Wing Assemblies	AT 10100 or AT 10600	3	PHYS 21800 – General Physics		4
AT 27200 – Introduction to Composite Technology	CGT 16300	3	Free Elective		2
Total		**15**	**Total**		**15**

FIFTH SEMESTER	Prerequisite	CR	SIXTH SEMESTER	Prerequisite	CR
AT 30702 - Advanced Aircraft Systems	AT 20200	3	AT 30802 - Aircraft Materials Processes	AT 20100 or AT 20501, (MA 22100 or MA 16010), PHYS 21800	3
STAT 30100 - Elementary Statistical Methods		3	AT 33502 - Avionics Systems	AT 20200 or AT 26502	3
Thematic Area Selective (AT 36302 for A&P)		3	AT 37600 - Aircraft Gas Turbine Engine Technology I	AT 10300	3
Behavioral/Social Science Found. Selective		3	AT 38500 – Design Support Analysis	STAT 30100	3
Science Foundational Selective		3	Advanced English Selective		3
Total		**15**	**Total**		**15**

SEVENTH SEMESTER	Prerequisite	CR	EIGHTH SEMESTER	Prerequisite	CR
AT 37002 - Advanced Aircraft Powerplants	AT 10300	3	AT 49700 - Applied Research Project	AT 30802, AT 49600	3
AT 44502 - Aircraft Electronics	AT 33502	3	Thematic Area Selective (AT 37200 for A&P)		3
AT 47600 - Aircraft Gas Turbine Engine Tech. II	AT 37600	3	Thematic Area Selective (AT 40200 for A&P)		3
AT 49600 - Applied Research Proposal	AT 20100 or AT 20501, STAT 30100	1	Thematic Area Selective (AT 47200 for A&P)		3
Economics Selective		3	Technical Communication Selective		3
Free Elective		2	Globalization		0
Total		**15**	**Total**		**15**

120 semester credits required for Bachelor of Science degree.
2.0 Graduation GPA required for Bachelor of Science degree.