PURDUE UNIVERSITY

Unmanned Aerial Systems
Purdue Polytechnic Institute

AUAS
120 credits for graduation

Departmental/Program Major Courses (111 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 10900	Unmanned Aerial Systems Design and Construction
_____	(3)	AT 11900	Unmanned Aerial Systems Inspection and Repair
_____	(4)	AT 14400	Private Pilot Lectures
_____	(2)	AT 14500	Private Pilot Flight
_____	(3)	AT 20200	Aerospace Vehicle Systems Design, Analysis and Operations
_____	(3)	AT 20300	Aviation Operations Management
_____	(3)	AT 20900	Civilian Unmanned Aerial Systems
_____	(1)	AT 21000	Ground Trainer I
_____	(1)	AT 21100	Ground Trainer II
_____	(3)	AT 21900	Unmanned Aerial Systems Design, Build, Test
_____	(3)	AT 28600	National Airspace System Operations
_____	(3)	AT 30900	Unmanned Autonomous Aerial Systems
_____	(3)	AT 31900	Unmanned Aerial Systems Applications, Data, Documentation
_____	(3)	AT 40900	Unmanned Aerial Systems Capstone I
_____	(3)	AT 41900	Unmanned Aerial Systems Capstone II
_____	(11)	UAS Related Selectives	

Other Departmental /Program Course Requirements (52 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
_____	(12)	Any University-approved minor or departmentally-approved thematic area of study

Electives (9 credits)

_____	(9)	**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**

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.

Unmanned Aerial Systems (201610) Revised 11/2014 (effective Fall 2015)

FIRST SEMESTER	Prerequisite	CR	SECOND SEMESTER	Prerequisite	CR
AT 10000 - Introduction to Aviation Technology		1	AT 10200 - Aviation Business		3
AT 10900 – Unmanned Aerial Systems Design and Construction		3	AT 10300 - Aerospace Vehicle Propulsion		3
AT 14400 – Private Pilot Lectures		4	AT 11900 – Unmanned Aerial Systems Inspection and Repair		3
MA 15800 – Precalculus		3	AT 14500 – Private Pilot Flight		2
TECH 12000 – Design Thinking in Technology		3	COM 11400 - Fundamentals of Speech Communication		3
			Calculus Selective		3
Total		**14**	**Total**		**17**

THIRD SEMESTER	Prerequisite	CR	FOURTH SEMESTER	Prerequisite	CR
AT 20300 - Aviation Operations Management	AT 10200	3	AT 20200 - Aerospace Vehicle Systems	AT 10600 or AT 14400	3
AT 20900 – Civilian Unmanned Aerial Systems	AT 11900	3	AT 21100 – Ground Trainer II	AT 21000	1
AT 21000 – Ground Trainer I		1	AT 21900 - Unmanned Aerial Systems Design, Build, Test	AT 20900	3
AT 28600 – National Airspace System Operations		3	Humanities Foundational Selective		3
PHYS 21800 – General Physics		4	Science Foundational Selective		3
			English Composition Selective		3
Total		**14**	**Total**		**16**

FIFTH SEMESTER	Prerequisite	CR	SIXTH SEMESTER	Prerequisite	CR
AT 30900 – Unmanned Autonomous Aerial Systems	AT 21900	3	AT 31900 – Unmanned Aerial Systems Applications, Data, Documentation	AT 30900	3
UAS Related Selective		3	UAS Related Selective		3
STAT 30100 – Elementary Statistical Methods		3	Thematic Area Selective		3
Thematic Area Selective		3	Economics Selective		3
Behavioral/Social Science Foundational Selective		3	Free Elective		3
Total		**15**	**Total**		**15**

SEVENTH SEMESTER	Prerequisite	CR	EIGHTH SEMESTER	Prerequisite	CR
AT 40900 – Unmanned Aerial Systems Capstone I	AT 31900	3	AT 41900 – Unmanned Aerial Systems Capstone II	AT 40900	3
UAS Related Selective		3	Thematic Area Selective		3
Thematic Area Selective		3	UAS Related Selective		2
Advanced English Elective		3	Technical Communication Selective		3
Free Elective		3	Free Elective		3
			Globalization		0
Total		**15**	**Total**		**14**

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