

**Bachelor of Science in Aviation  
Study Plan (Fall Start)**

**Total Credits Hours: 126**

**First Year (Freshman)**

**Fall Semester**

Code	Title	Cr.	Prerequisite
AVS101	Introduction to Aviation	3	No Prerequisite
ENG200	English 2	3	IELTS average score of 6 or EMSAT average score of 1400 or passing grade in ENG102. (FWS100 (E) as co-requisite if placed in ENG200)
FWS100	Academic Skills for Success	3	No Prerequisite
ARL100	Communication Skills in Arabic I	3	No Prerequisite
ITD100	Introduction to Information and Digital Technology	3	No Prerequisite
STT100	General Statistics	3	No Prerequisite

**Total Credit Hours: 18**

**Spring Semester**

Code	Title	Cr.	Prerequisite
AVS120	Introduction to Aeronautics	3	AVS120L as co-requisite
GES201	General Science	3	ENG102+ FWS100(E ) or FWS100(E) as co-req if students enter to ENG200 course directly
AVS120L	Introduction to Aeronautics Lab	1	AVS120 as co-requisite
FWS205	UAE and GCC Society	3	ENG102+ FWS100(E ) or FWS100(E) as co-req if students enter to ENG200 course directly
MTT101	Pre-Calculus	3	MTH 100 or MPT
ISL100	Islamic Culture	3	No Prerequisite

**Total Credit Hours: 16**

**Second Year (Sophomore)**

**Fall Semester**

Code	Title	Cr.	Prerequisite
AVS209	Aerodynamics	3	GES201 + MTT101
AVS211	Aircraft Jet Engines	3	GES201 + AVS120
AVS254	Aviation Law	3	AVS101
AVS287	Crew Resource Management	3	No Prerequisite
OE1	Open Elective I	3	-
		3	

**Total Credit Hours: 15**

**Spring Semester**

Code	Title	Cr.	Prerequisite
GEN101	Introduction to Artificial Intelligence	3	STT100
AVS356	Aircraft Systems I	3	GES201 + AVS120
AVS357	Flight Physiology	3	GES201
AVS403	Introduction to Space	3	AVS211
AVS415	Airport Operations	3	AVS120
FWS301	Developing Future Leaders	3	ENG200+FWS100+Comp. of 45 c. hr.

**Total Credit Hours: 18**

**Third Year (Junior)**

**Fall Semester**

Code	Title	Cr.	Prerequisite
AVS310	Aircraft Performance	3	AVS211
AVS350	Flight Navigation	3	MTT101+AVS120+AVS350L as co-req.
AVS350L	Flight Navigation Lab	1	AVS350 as Co-req.
AVS402	Aviation Meteorology	3	GES201
FWS305	Technical Communications for Work Place	3	ENG200 + Completion of 45 c. hr.
FWS310	Fundamentals of Innovation & Entrepr.	3	ENG200 + Completion of 60 Cr. Hr.

**Total Credit Hours: 16**

**Spring Semester**

Code	Title	Cr.	Prerequisite
AVS289	Airline Management	3	AVS101 + Comp. of 50 Cr. Hours
AVS410	Air Traffic Management	3	AVS101 + Comp. of 50 Cr. Hours
AVS411	Aircraft Systems II	3	AVS356
AVS472	Aviation Human Factors	3	AVS287
OE2	Open Elective II	3	-

**Total Credit Hours: 15**

**Fourth Year (Senior)**

**Winter Semester**

Code	Title	Cr.	Prerequisite
AVS399	Internship	2	Completion of 90 Credit Hours

**Fall Semester**

Code	Title	Cr.	Prerequisite
AVS408	Aviation Safety	3	Completion of 80 Credit Hours
AVS422	Instrument and Commercial Pilot Operations	3	AVS120, AVS209, AVS310, AVS402
AVS422L	Instr./Commercial Pilot Operations Lab	1	AVS422 as co-req.
OE3	Open Elective III	3	-
OE4	Open Elective IV	3	-

**Total Credit Hours: 13**

**Spring Semester**

Code	Title	Cr.	Prerequisite
AVS303	Aviation Security	3	Completion of 80 Credit Hours
AVS412	Unmanned Aircraft Sys. Operation	3	Completion of 80 Credit Hours
AVS435	Adv. Fl. Guidance and Control Sys.	3	AVS209, AVS350 and AVS411
AVS435L	Adv. Fl. Guidance and Control Sys. Lab	1	AVS435 as co-req.
AVS499	Aviation Capstone Project	3	Comp. of 100 CR hr. or Sen. Level

**Total Credit Hours: 13**