Credit

AVIATION SCIENCE

Admission to Program

This program is only open to Officer Cadets already employed by the UAE Defence Force. Selection to the program is conducted annually by a committee nominated by the General Head Quarters of the Armed Forces (GHQ) in consultation with HCT. The entry requirements for the Bachelor in Aviation Science is jointly determined by the UAE Air Force & Defence Force and HCT to meet the requirements of the UAE Defence Force as an employer and the standards for higher education as set by the CAA. Students wishing to take this program should apply to the UAE Defence Force to enter employment with the UAE Defence Force in the first instance.

Program Mission

Prepare future Officers as exceptional leaders of the UAE Armed Forces providing them with a sound understanding of military sciences, aerosciences and flight in order for them to become professional military pilots on the international defense stage with a vision for the future, and an ethos of loyalty, obedience and dedication to the national duty.

Program Description

The Bachelor of Aviation Science Program prepares students for employment as an Officer in Military Aviation employed in a general or specialist Aviation Operations position in the UAE Defence Force.

The program provides training for general employment as an Officer or specific employment as a specialist through one of four concentrations:

- · Fixed Wing Pilot
- · Helicopter Pilot
- UAV Pilot

Program Learning Outcomes

In addition to the generic graduate outcomes related to the Bachelor graduates of the Higher Colleges of Technology, cadets, upon completion of the modified program, will be able to:

- PLO 1: Function in multidisciplinary teams and develop military leadership capabilities to support and conduct tactical military operations.
- PLO 2: Communicate effectively and concisely military ideas, directions and communications in written, oral and visual form.
- PLO 3: Identify, formulate, and solve scientific and operational problems encountered in the practice of performing the role of a military aviation officer.
- PLO 4: Identify the latest military technology and supporting environmental and societal concepts to assist all aspects of military aviation operations.
- PLO 5: Interpret military orders and utilise supporting aviation data, principles and military technology to plan and execute military aviation operations.
- PLO 6: Operate a range of military aviation equipment in the training environment.

Area of Concentration PLOs:

 PLO 7 Fixed Wing Pilot: Pilot a fixed wing training aircraft on a range of Fixed Wing Military Training Missions.

- PLO 8 Helicopter Pilot: Pilot a rotary wing training aircraft on a range of Helicopter Military Training Missions.
- PLO 9 UAV Pilot: Pilot a UAV training aircraft and operate UAV Sensor Systems on a range of UAV Military Training Missions.

Requirements Completion Requirements

Title

Code

Students must successfully complete a minimum of 124 credits, including:

		Hours
Military Studies		12
Aviation Core		52
Aviation Elective	s	27
General Studies		33
Total Credit Hou	rs	124
Code	Title	Credit Hours
Aviation Science	Core Courses	
Required Credits	: 52	
AVS 1013	Aviation Electric and Magnetic Fundamentals	3
AVS 1023	Aviation Calculus	3
AVS 2113	Meteorology I	3
AVS 2123	Principles of Flight	3
AVS 2133	Aircrew Survival	3
AVS 2143	Aircraft Systems and Components	3
AVS 3003	Avionics	3
AVS 3013	Instruments	3
AVS 3023	Aero Engines	3
AVS 3033	Navigation	3
AVS 3042	Meteorology II	2
AVS 3103	Airmanship	3
AVS 3113	Aviation Safety	3
AVS 3123	Advanced Navigation	3
AVS 3143	Human Factors	3
AVS 4012	Aviation Physiology	2
AVS 4143	Capstone Project	3
MTS 1133	Warfare Tactics	3
Military Studies	Courses	
Required Credits	: 12	
MTS 1002	Leadership	2
MTS 1102	Staff Duties	2
MTS 1112	Topography	2
MTS 1123	Air Force History and Organisation	3
MTS 2103	Aircraft Weapons Systems	3
Aviation Science	Elective Courses	
(For Students no	t opting for a Concentration)	
Required Credits	: 27	
ADF 3103	Air and Space Power	3
ADF 4112	Airspace Management	2
ADF 4134	Aircraft Recognition	4

AFT 4006	Aeroplane Ground School Training	6
AFT 4015	Aeroplane General Handling Ground School	5
AFT 4025	Aeroplane General Handling Flying	5
AFT 4101	Aeroplane Instrument Flying Ground School	1
AFT 4112	Aeroplane Instrument Flying	2
AFT 4202	Aeroplane Navigation Flying Phase	2
AFT 4212	Aeroplane Formation Flying Phase	2
AFT 4221	Aeroplane Night Flying Phase	1
AVS 2153	Radar Systems	3
AVS 3133	Aircraft Performance: Aeroplane	3
AVS 3153	Electronic Warfare Systems	3
AVS 3163	Helicopters : Principles of Flight	3
AVS 3173	Missile Systems	3
AVS 4003	Helicopter Performance	3
HFT 4002	Helicopter General Handling Ground School I	2
HFT 4013	Helicopter General Handling Ground School II	3
HFT 4022	Helicopter General Handling Basic	2
HFT 4103	Helicopter General Handling Advanced	3
HFT 4113	Helicopter Instrument Flying Ground School	3
HFT 4122	Helicopter Instrument Flying	2
HFT 4203	Helicopter Navigation	3
HFT 4212	Helicopter Night Flying	2
HFT 4221	Helicopter Mission Flying	1
UAV 4003	UAV Pilot Ground School	3
UAV 4012	UAV Pilot General Handling Ground School	2
UAV 4022	UAV Pilot General Handling Flying	2
UAV 4031	UAV Pilot Instrument Flying	1
UAV 4041	UAV Pilot Navigation Flying	1
UAV 4103	Unmanned Aircraft Operations	3
UAV 4113	Unmanned Vehicle Systems	3
UAV 4203	UAV Ground School	3
UAV 4213	UAV Flight Training (Simulated)	3
UAV 4223	UAV Mission Training (Simulated)	3
General Studie	s	
Required Credi	ts: 33	
English, Arabic	or other Languages	
Required Credi	ts: 12	
Humanities or	Art	
Required Credi	ts: 6	
Information Te	chnology or Mathematics	
Required Credi	ts: 6	
The Natural Sc		
Required Credi	ts: 3	
The Social or E	Behavioral Sciences	
Required Credi	ts: 6	

Concentrations

Concentration Name: Fixed Wing Pilot Total Credit Hours: 27

Concentration Curriculum:

Code	Title	Credit Hours	
		Hours	
AFT 4006	Aeroplane Ground School Training	6	
AFT 4015	Aeroplane General Handling Ground School	5	
AFT 4025	Aeroplane General Handling Flying	5	
AFT 4101	Aeroplane Instrument Flying Ground School	1	
AFT 4112	Aeroplane Instrument Flying	2	
AFT 4202	Aeroplane Navigation Flying Phase	2	
AFT 4212	Aeroplane Formation Flying Phase	2	
AFT 4221	Aeroplane Night Flying Phase	1	
AVS 3133	Aircraft Performance: Aeroplane	3	
Concentration Code: AFT			

Concentration Name: Helicopter Pilot

Total Credit Hours: 27 Concentration Curriculum:

Code	Title	Credit Hours
AVS 3163	Helicopters : Principles of Flight	3
AVS 4003	Helicopter Performance	3
HFT 4002	Helicopter General Handling Ground School I	2
HFT 4013	Helicopter General Handling Ground School II	3
HFT 4022	Helicopter General Handling Basic	2
HFT 4103	Helicopter General Handling Advanced	3
HFT 4113	Helicopter Instrument Flying Ground School	3
HFT 4122	Helicopter Instrument Flying	2
HFT 4203	Helicopter Navigation	3
HFT 4212	Helicopter Night Flying	2
HFT 4221	Helicopter Mission Flying	1
Concentration Co	ode: HFT	

Concentration Name: UAV Pilot

Total Credit Hours: 27 Concentration Curriculum:

Code	Title	Credit Hours
AVS 3133	Aircraft Performance: Aeroplane	3
UAV 4003	UAV Pilot Ground School	3
UAV 4012	UAV Pilot General Handling Ground School	2
UAV 4022	UAV Pilot General Handling Flying	2
UAV 4031	UAV Pilot Instrument Flying	1
UAV 4041	UAV Pilot Navigation Flying	1
UAV 4103	Unmanned Aircraft Operations	3
UAV 4113	Unmanned Vehicle Systems	3
UAV 4203	UAV Ground School	3
UAV 4213	UAV Flight Training (Simulated)	3
UAV 4223	UAV Mission Training (Simulated)	3
Concentration Code: UAV		

Ideal Study Plan Recommended Sequences of Study

Fixed Wing Pilot Concentration

Year 1		
Semester 1		Credit
		Hours
AES 1013	Arabic Communications	3
ICT 2013	Computational Thinking and Coding	3
LSM 1103	Technical Mathematics	3
LSS 1003	Life and Future Skills	3
MTS 1002	Leadership	2
MTS 1102	Staff Duties	2
0	Credit Hours	16
Semester 2 AES 1003	Emirati Studies	2
AES 1003 AHM 1203		3
LSC 1103	Aviation Physics	3
MTS 1112	Professional Communication and Reporting	2
MTS 1112	Topography Air Force History and Organisation	3
MTS 2103	Air roce ristory and organisation Aircraft Weapons Systems	3
W13 2103	Credit Hours	17
Semester 3	oreur riours	.,
AVS 1013	Aviation Electric and Magnetic Fundamentals	3
AVS 1013	Aviation Calculus	3
AVS 2113	Meteorology I	3
LSC 1503	Academic Spoken Communication	3
PST 1173	Islamic Studies	3
	Credit Hours	15
Year 2		
Semester 4		
AVS 2123	Principles of Flight	3
AVS 2143	Aircraft Systems and Components	3
AVS 3013	Instruments	3
AVS 3033	Navigation	3
AVS 3103	Airmanship	3
LSC 3023	Professional English	3
	Credit Hours	18
Semester 5		
AVS 2133	Aircrew Survival	3
AVS 3003	Avionics	3
AVS 3023	Aero Engines	3
AVS 3123	Advanced Navigation	3
LSS 1123	Basic Research Methods	3
	Credit Hours	15
Semester 6		
AVS 3042	Meteorology II	2
AVS 3113	Aviation Safety	3
AVS 3133	Aircraft Performance: Aeroplane	3
AVS 3143	Human Factors	3
AVS 4143	Capstone Project	3
	Credit Hours	14
Year 3		
Semester 7		
AFT 4006	Aeroplane Ground School Training	6
AVS 4012	Aviation Physiology	2
MTS 1133	Warfare Tactics	3
	Credit Hours	11
Semester 8		
AFT 4015	Aeroplane General Handling Ground School	5
AFT 4025	Aeroplane General Handling Flying	5
_	Credit Hours	10
Semester 9		
AFT 4101	Aeroplane Instrument Flying Ground School	1
AFT 4112	Aeroplane Instrument Flying	2
AFT 4202	Aeroplane Navigation Flying Phase	2

	Total Credit Hours	124
	Credit Hours	8
AFT 4221	Aeroplane Night Flying Phase	1
AFT 4212	Aeroplane Formation Flying Phase	2

Helicopter Pilot Concentration

Year 1		
Semester 1		Credit
		Hours
AES 1013	Arabic Communications	3
ICT 2013	Computational Thinking and Coding	3
LSM 1103	Technical Mathematics	3
LSS 1003	Life and Future Skills	3
MTS 1002	Leadership	2
MTS 1102	Staff Duties	2
	Credit Hours	16
Semester 2		
AES 1003	Emirati Studies	3
AHM 1203	Aviation Physics	3
LSC 1103	Professional Communication and Reporting	3
MTS 1112	Topography	2
MTS 1123	Air Force History and Organisation	3
MTS 2103	Aircraft Weapons Systems	3
	Credit Hours	17
Semester 3		
AVS 1013	Aviation Electric and Magnetic Fundamentals	3
AVS 1023	Aviation Calculus	3
AVS 2113	Meteorology I	3
LSC 1503	Academic Spoken Communication	3
PST 1173	Islamic Studies	3
	Credit Hours	15
Year 2		
Semester 4		
AVS 2123	Principles of Flight	3
AVS 2143	Aircraft Systems and Components	3
AVS 3013	Instruments	3
AVS 3033	Navigation	3
AVS 3103	Airmanship	3
LSC 3023	Professional English	3
	Credit Hours	18
Semester 5		
AVS 2133	Aircrew Survival	3
AVS 3003	Avionics	3
AVS 3023	Aero Engines	3
AVS 3123	Advanced Navigation	3
LSS 1123	Basic Research Methods	3
	Credit Hours	15
Semester 6		
AVS 3042	Meteorology II	2
AVS 3113	Aviation Safety	3
AVS 3133	Aircraft Performance: Aeroplane	3
AVS 3143	Human Factors	3
AVS 4143	Capstone Project	3
Von 2	Credit Hours	14
Year 3		
Semester 7	Aviation Dhysicles	
AVS 4012	Aviation Physiology	2
HFT 4002	Helicopter General Handling Ground School I	2
HFT 4013	Helicopter General Handling Ground School II	3
MTS 1133	Warfare Tactics	3
	Credit Hours	10

Aviation Science

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UAV Pilot Concentration

Year	1	

AES 1013	Year 1		
AES 1013	Semester 1		Credit
CT 2013 Computational Thinking and Coding Samuel			Hours
LSM 1103	AES 1013	Arabic Communications	3
LSS 1003	ICT 2013	Computational Thinking and Coding	3
MTS 1002 Leadership 2 MTS 1102 Staff Duties 2 Credit Hours 16 Semester 2 AES 1003 Emirati Studies 3 AHM 1203 Aviation Physics 3 LSC 1103 Professional Communication and Reporting 3 MTS 1112 Topography 2 MTS 1123 Air Force History and Organisation 3 MTS 2103 Aircraft Weapons Systems 3 Credit Hours 17 Semester 3 AVS 1013 Aviation Electric and Magnetic Fundamentals 3 AVS 2023 Aviation Calculus 3 AVS 2013 Meteorology I 3 LSC 1503 Academic Spoken Communication 3 PST 1173 Islamic Studies 3 Credit Hours 15 Year 2 Semester 4 AVS 2123 Principles of Flight 3 AVS 3013 Instruments 3 AVS 3003	LSM 1103	Technical Mathematics	3
MTS 1102 Staff Duties 2 Credit Hours 16 Semester 2 AES 1003 Emirati Studies 3 AHM 1203 Aviation Physics 3 LSC 1103 Professional Communication and Reporting 3 MTS 1112 Topography 2 MTS 1123 Air Force History and Organisation 3 MTS 2103 Aircraft Weapons Systems 3 Credit Hours 17 Semester 3 AVS 1013 Aviation Electric and Magnetic Fundamentals 3 AVS 1013 Aviation Calculus 3 AVS 2023 Aviation Calculus 3 AVS 2013 Meteorology I 3 LSC 1503 Academic Spoken Communication 3 PST 1173 Islamic Studies 3 PST 1173 Islamic Studies 3 Vear 2 Semester 4 4 AVS 2123 Principles of Flight 3 AVS 2123 Principles of Flight 3 3 AVI 3003 AVI 3003 AVI 3003 AVI 3003 AV	LSS 1003	Life and Future Skills	3
Credit Hours 16 Semester 2 AES 1003 Emirati Studies 3 AHM 1203 Aviation Physics 3 LSC 1103 Professional Communication and Reporting 3 MTS 1112 Topography 2 MTS 1123 Air Force History and Organisation 3 MTS 2103 Aircraft Weapons Systems 3 Credit Hours 17 Semester 3 AVS 1013 Aviation Electric and Magnetic Fundamentals 3 AVS 1023 Aviation Calculus 3 AVS 1013 Aviation Calculus 3 AVS 2013 Aviation Calculus 3 AVS 1023 Aviation Calculus 3 AVS 1013 Aviation Calculus 3 AVS 2014 Academic Spoken Communication 3 PS 1173 Islamic Studies 3 Credit Hours 15 Year 2 Semester 4 AVS 2123 Principles of Flight <	MTS 1002	Leadership	2
Semester 2 AES 1003 Emirati Studies 3 AHM 1203 Aviation Physics 3 LSC 1103 Professional Communication and Reporting 3 MTS 1112 Topography 2 MTS 1123 Air Force History and Organisation 3 MTS 2103 Aircraft Weapons Systems 3 Credit Hours 17 Semester 3 AVS 1013 Aviation Electric and Magnetic Fundamentals 3 AVS 1023 Aviation Calculus 3 AVS 1023 Aviation Calculus 3 AVS 2013 Meteorology I 3 LSC 1503 Academic Spoken Communication 3 PST 1173 Islamic Studies 3 Credit Hours 15 Year 2 Semester 4 AVS 2123 Principles of Flight 3 AVS 2123 Principles of Flight 3 AVS 3103 Instruments 3 AVS 3103 Airramaship 3	MTS 1102	Staff Duties	2
AES 1003 Emirati Studies AHM 1203 Aviation Physics LSC 1103 Professional Communication and Reporting MTS 1112 Topography MTS 1123 Air Force History and Organisation MTS 2103 Aircraft Weapons Systems Credit Hours 17 Semester 3 AVS 1013 Aviation Electric and Magnetic Fundamentals AVS 1023 Aviation Calculus AVS 2113 Meteorology I LSC 1503 Academic Spoken Communication PST 1173 Islamic Studies Credit Hours 15 Year 2 Semester 4 AVS 2123 Principles of Flight AVS 2143 Aircraft Systems and Components AVS 3013 Instruments AVS 3013 Airmanship LSC 3023 Professional English Credit Hours 3 AVS 2133 Aircrew Survival AVS 3003 Avionics AVS 3023 Aero Engines AVS 3123		Credit Hours	16
AHM 1203	Semester 2		
LSC 1103	AES 1003	Emirati Studies	3
MTS 1112 Topography 2 MTS 1123 Air Force History and Organisation 3 MTS 2103 Aircraft Weapons Systems 3 Credit Hours 17 Semester 3 AVS 1013 Aviation Electric and Magnetic Fundamentals 3 AVS 1023 Aviation Calculus 3 AVS 2113 Meteorology I 3 LSC 1503 Academic Spoken Communication 3 PST 1173 Islamic Studies 3 Credit Hours 15 Year 2 Semester 4 AVS 2123 Principles of Flight 3 AVS 3013 Instruments 3 AVS 3033 Navigation 3 AVS 3033 Airmanship 3 LSC 3023 Professional English 3 Credit Hours 18 Semester 5 AVS 3023 Aero Engines 3 AVS 3123 Advanced Navigation 3	AHM 1203	Aviation Physics	3
MTS 1123 Air Force History and Organisation 3 MTS 2103 Aircraft Weapons Systems 3 Credit Hours 17 Semester 3 AVS 1013 Aviation Electric and Magnetic Fundamentals 3 AVS 1023 Aviation Calculus 3 AVS 2113 Meteorology I 3 LSC 1503 Academic Spoken Communication 3 PST 1173 Islamic Studies 3 Credit Hours 15 Year 2 Semester 4 AVS 2123 Principles of Flight 3 AVS 2123 Principles of Flight 3 AVS 2133 Aircraft Systems and Components 3 AVS 3013 Instruments 3 AVS 3023 Airmanship 3 LSC 3023 Professional English 3 Credit Hours 18 Semester 5 AVS 3023 Aero Engines 3 AVS 3023 Aero Engines <td>LSC 1103</td> <td>Professional Communication and Reporting</td> <td>3</td>	LSC 1103	Professional Communication and Reporting	3
MTS 2103 Aircraft Weapons Systems Credit Hours 17 Semester 3 AVS 1013 Aviation Electric and Magnetic Fundamentals 3 AVS 1023 Aviation Calculus 3 AVS 2113 Meteorology I 3 LSC 1503 Academic Spoken Communication 3 PST 1173 Islamic Studies 3 Credit Hours 15 Year 2 Semester 4 AVS 2123 Principles of Flight 3 AVS 2123 Principles of Flight 3 AVS 2123 Principles of Flight 3 AVS 3013 Instruments 3 AVS 3003 Navigation 3 AVS 3103 Airmanship 3 Credit Hours 18 Semester 5 AVS 3023 Aero Engines 3 AVS 3023 Aero Engines 3 AVS 3123 Advanced Navigation 3 Credit Hours	MTS 1112	Topography	2
Credit Hours	MTS 1123	Air Force History and Organisation	3
Semester 3 AVS 1013 Aviation Electric and Magnetic Fundamentals AVS 1023 Aviation Calculus AVS 2113 Meteorology I LSC 1503 Academic Spoken Communication PST 1173 Islamic Studies Credit Hours 15 Year 2 Semester 4 AVS 2123 Principles of Flight AVS 2143 Aircraft Systems and Components AVS 3013 Instruments AVS 3033 Navigation AVS 3033 Navigation AVS 3103 Airmanship LSC 3023 Professional English Credit Hours 18 Semester 5 AVS 2133 Aircrew Survival AVS 3003 Avionics AVS 3023 Aero Engines AVS 3123 Advanced Navigation LSS 1123 Basic Research Methods Credit Hours 15 Semester 6 AVS 3042 Meteorology II	MTS 2103	Aircraft Weapons Systems	3
AVS 1013		Credit Hours	17
AVS 1023	Semester 3		
AVS 2113 Meteorology I LSC 1503 Academic Spoken Communication PST 1173 Islamic Studies Credit Hours 15 Year 2 Semester 4 AVS 2123 Principles of Flight AVS 2143 Aircraft Systems and Components AVS 3013 Instruments AVS 3033 Navigation AVS 3033 Airmanship LSC 3023 Professional English Credit Hours 18 Semester 5 AVS 2133 Aircrew Survival AVS 3003 Aero Engines AVS 3023 Aero Engines AVS 3123 Advanced Navigation 33 AVS 3123 Basic Research Methods Credit Hours 15 Semester 6 AVS 3042 Meteorology II	AVS 1013	Aviation Electric and Magnetic Fundamentals	3
LSC 1503 Academic Spoken Communication PST 1173 Islamic Studies Credit Hours 15 Year 2 Semester 4 AVS 2123 Principles of Flight AVS 2143 Aircraft Systems and Components AVS 3013 Instruments AVS 3033 Navigation AVS 3103 Airmanship LSC 3023 Professional English Credit Hours 18 Semester 5 AVS 2133 Aircrew Survival AVS 3003 Avionics AVS 3023 Aero Engines AVS 3123 Advanced Navigation LSS 1123 Basic Research Methods Credit Hours 15 Semester 6 AVS 3042 Meteorology II	AVS 1023	Aviation Calculus	3
PST 1173 Islamic Studies 3 Credit Hours 15 Year 2 Semester 4 AVS 2123 Principles of Flight 3 AVS 2143 Aircraft Systems and Components 3 AVS 3013 Instruments 3 AVS 3033 Navigation 3 LSC 3023 Professional English 3 Credit Hours 18 Semester 5 AVS 2133 Aircrew Survival 3 AVS 3003 Avionics 3 AVS 3023 Aero Engines 3 AVS 3123 Advanced Navigation 3 LSS 1123 Basic Research Methods 3 Credit Hours 15 Semester 6 AVS 3042 Meteorology II 2	AVS 2113	Meteorology I	3
Credit Hours 15 Year 2 Year 2 Semester 4 AVS 2123 Principles of Flight 3 AVS 2143 Aircraft Systems and Components 3 AVS 3013 Instruments 3 AVS 3033 Navigation 3 AVS 3103 Airmanship 3 LSC 3023 Professional English 3 Credit Hours 18 Semester 5 AVS 2133 Aircrew Survival 3 AVS 3003 Avionics 3 AVS 3023 Aero Engines 3 AVS 3123 Advanced Navigation 3 LSS 1123 Basic Research Methods 3 Credit Hours 15 Semester 6 AVS 3042 Meteorology II 2	LSC 1503	Academic Spoken Communication	3
Year 2 Semester 4 AVS 2123 Principles of Flight AVS 2143 Aircraft Systems and Components AVS 3013 Instruments AVS 3033 Navigation AVS 3103 Airmanship LSC 3023 Professional English Credit Hours 18 Semester 5 AVS 2133 Aircrew Survival AVS 3003 Avionics AVS 3023 Aero Engines AVS 3123 Advanced Navigation LSS 1123 Basic Research Methods Credit Hours 15 Semester 6 AVS 3042 Meteorology II	PST 1173	Islamic Studies	3
Semester 4 AVS 2123 Principles of Flight 3 AVS 2143 Aircraft Systems and Components 3 AVS 3013 Instruments 3 AVS 3033 Navigation 3 AVS 3103 Airmanship 3 LSC 3023 Professional English 3 Credit Hours 18 Semester 5 AVS 2133 Aircrew Survival 3 AVS 3003 Avionics 3 AVS 3023 Aero Engines 3 AVS 3123 Advanced Navigation 3 LSS 1123 Basic Research Methods 3 Credit Hours 15 Semester 6 AVS 3042 Meteorology II 2		Credit Hours	15
AVS 2123	Year 2		
AVS 2143 Aircraft Systems and Components AVS 3013 Instruments AVS 3033 Navigation AVS 3103 Airmanship LSC 3023 Professional English Credit Hours 18 Semester 5 AVS 2133 Aircrew Survival AVS 3003 Avionics AVS 3003 Aero Engines AVS 3123 Advanced Navigation LSS 1123 Basic Research Methods Credit Hours 15 Semester 6 AVS 3042 Meteorology II	Semester 4		
AVS 2143 Aircraft Systems and Components 3 AVS 3013 Instruments 3 AVS 3033 Navigation 3 AVS 3103 Airmanship 3 LSC 3023 Professional English 3 Credit Hours 18 Semester 5 AVS 2133 Aircrew Survival 3 AVS 3003 Avionics 3 AVS 3023 Aero Engines 3 AVS 3123 Advanced Navigation 3 LSS 1123 Basic Research Methods 3 Credit Hours 15 Semester 6 AVS 3042 Meteorology II 22	AVS 2123	Principles of Flight	3
AVS 3033 Navigation AVS 3103 Airmanship LSC 3023 Professional English Credit Hours 18 Semester 5 AVS 2133 Aircrew Survival AVS 3003 Avionics AVS 3023 Aero Engines AVS 3123 Advanced Navigation LSS 1123 Basic Research Methods Credit Hours 15 Semester 6 AVS 3042 Meteorology II	AVS 2143	Aircraft Systems and Components	3
AVS 3103 Airmanship 3 LSC 3023 Professional English 3 Credit Hours 18 Semester 5 AVS 2133 Aircrew Survival 3 AVS 3003 Avionics 3 AVS 3023 Aero Engines 3 AVS 3123 Advanced Navigation 3 LSS 1123 Basic Research Methods 3 Credit Hours 15 Semester 6 AVS 3042 Meteorology II 2	AVS 3013		3
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Credit Hours 18 Semester 5 AVS 2133 Aircrew Survival 3 AVS 3003 Avionics 3 AVS 3023 Aero Engines 3 AVS 3123 Advanced Navigation 3 LSS 1123 Basic Research Methods 3 Credit Hours 15 Semester 6 AVS 3042 Meteorology II 2	AVS 3103	Airmanship	3
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Semester 5 AVS 2133 Aircrew Survival 3 AVS 3003 Avionics 3 AVS 3023 Aero Engines 3 AVS 3123 Advanced Navigation 3 LSS 1123 Basic Research Methods 3 Credit Hours 15 Semester 6 AVS 3042 Meteorology II 2			18
AVS 3003 Avionics AVS 3023 Aero Engines AVS 3123 Advanced Navigation LSS 1123 Basic Research Methods Credit Hours Semester 6 AVS 3042 Meteorology II 2	Semester 5		
AVS 3003 Avionics AVS 3023 Aero Engines AVS 3123 Advanced Navigation LSS 1123 Basic Research Methods Credit Hours Semester 6 AVS 3042 Meteorology II 2	AVS 2133	Aircrew Survival	3
AVS 3023 Aero Engines AVS 3123 Advanced Navigation LSS 1123 Basic Research Methods Credit Hours Semester 6 AVS 3042 Meteorology II 2			3
AVS 3123 Advanced Navigation 3 LSS 1123 Basic Research Methods 3 Credit Hours 15 Semester 6 AVS 3042 Meteorology II 2			3
LSS 1123 Basic Research Methods 3 Credit Hours 15 Semester 6 AVS 3042 Meteorology II 2		-	
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AVS 3133 Aircraft Performance: Aeroplane 3			3
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AVS 5145 FUITIBIT FACTORS 3	AV3 3143	HUIHAH FACLUIS	3

AVS 4143	Capstone Project	3
	Credit Hours	14
Year 3		
Semester 7		
AVS 4012	Aviation Physiology	2
MTS 1133	Warfare Tactics	3
UAV 4003	UAV Pilot Ground School	3
UAV 4012	UAV Pilot General Handling Ground School	2
	Credit Hours	10
Semester 8		
UAV 4022	UAV Pilot General Handling Flying	2
UAV 4031	UAV Pilot Instrument Flying	1
UAV 4041	UAV Pilot Navigation Flying	1
UAV 4103	Unmanned Aircraft Operations	3
UAV 4113	Unmanned Vehicle Systems	3
	Credit Hours	10
Semester 9		
UAV 4203	UAV Ground School	3
UAV 4213	UAV Flight Training (Simulated)	3
UAV 4223	UAV Mission Training (Simulated)	3
	Credit Hours	9
	Total Credit Hours	124

Faculty and Academic Staff

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Rory O'Rahilly, Masters, Writing, University- National University of Ireland Galway, Ireland

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