

FACULTY OF
MILITARY AND SECURITY





Faculty of Military and Security

Faculty Mission

The Faculty of Military and Security has a mission to provide the UAE Security Services of the Police and Armed Forces with exceptional graduates to become Officers and Leaders of character to meet the needs of the UAE Government now and in the future. The Faculty aims to produce graduates with a broad range of personal and professional competencies to prepare them to take their positions as leading and responsible citizens of the nation as well specialist professionals within the UAE Security Services.

The Faculty aims to work in a delivery partnership with the UAE Police Force and UAE Defence Force to provide education for the future Officers of the Police and UAE Defence Force. The Faculty aims to provide programs that are a balanced blend of academic study and applied science and vocational practice. Graduates are able to use the education and applied competency practice to carry out their professional duties protecting the community and the nation.

Senior Staff

Executive Dean: **Dr. Hashim Al Zaabi**

Associate Dean (Aviation Science): **Dr. Stephen Rayner**

Associate Dean (Naval Science): **Dr. Mahmood Rahi**

Program Chair (Police): **Dr. Ayman Mousa**

List of degrees offered

- Bachelor of Aviation Science
- Bachelor of Aviation Support
- Bachelor of Naval Science
- Diploma in Naval Science
- Diploma in Criminal Justice
- Diploma in Law Enforcement
- Diploma in Border Security Operation
- Diploma in Auditing and Discipline Policing

Khalifa Bin Zayed Air College

Bachelor of 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, aero-sciences and flight in order for them to become professional military pilots on the international defence stage with a vision for the future, and an ethos of loyalty, obedience and dedication to the national duty.

Program Description

The Bachelor in 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.
- PLO6: 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.

Completion Requirements

Students must successfully complete a minimum of 124 credits, including:	
Military Studies	9 credits
Aviation Core	55 credits
Aviation Electives	27 credits
General Studies	33 credits

Fixed Wing Pilot Concentration

Required courses: AVS 3133, AFT 4006, AFT 4015, AFT 4025, AFT 4101, AFT 4112, AFT 4202, AFT 4212, AFT 4221 from the Aviation Science Electives.

Helicopter Pilot Concentration

Required courses: AVS 3163, AVS 4003, HFT 4002, HFT 4013, HFT 4022, HFT 4103, HFT 4113, HFT 4122, HFT 4203, HFT 4212, HFT 4221 from the Aviation Science Electives

UAV Pilot Concentration

Required courses: AVS 3133, UAV 4003, UAV 4012, UAV 4022, UAV 4031, UAV 4041, UAV 4103, UAV 4113, UAV 4203, UAV 4213, UAV 4223 from the Aviation Science Electives

		Course Credits
Military Studies		
Required credits: 9		
MTS 1002	Leadership	2
MTS 1102	Staff Duties	2
MTS 1112	Topography	2
MTS 2103	Aircraft Weapons Systems	3
Aviation Core		
Required credits: 55		
AVS 1003	Aviation IT Systems	3
AVS 1013	Aviation Electric & Magnetic Fundamentals	3
AVS 1023	Aviation Calculus	3
AVS 2113	Meteorology I	3
AVS 2123	Principles of Flight	3
AVS 2133	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 4126	Project	6
General Academic Requirements		
Required credits: 33		
AES 1013	Arabic Communications I	3
AES 3003	Professional Arabic	3
LSC 1103	Academic Reading & Writing I	3
LSC 1503	Academic Spoken Communication	3
AES 1003	Emirati Studies	3
ICT 2013	Computational Thinking and Coding	3
LSM 1103	Technical Mathematics	3
AHM 1203	Aviation Physics	3
LSS 1003	Life & Study Skills	3
LSS 1123	Basic Methods of Scientific Research & Development	3
LSS 2403	Innovation and Entrepreneurship	3

		Course Credits
Aviation Electives		
Required credits: 27		
AVS 3133	Aircraft Performance : Aeroplane	3
AVS 3163	Principles of Flight Helicopter	3
AVS 4003	Aircraft Performance : Helicopter	3
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
HFT 4002	Helicopter General Handling Ground School 1	2
HFT 4013	Helicopter General Handling Ground School 2	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	Flight Simulation Training	3
UAV 4223	Flight Training	3
AVS 2153	Radar Systems	3
ADF 3103	Air and Space Power	3
ADF 4134	Aircraft Recognition	4
ADF 4112	Airspace Management	2

Recommended Sequence of Study

Bachelor in Aviation Science

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Year 1 Semester 1 (all)			Year 1 Semester 3 (all)		
Required Credits: 5			Required Credits: 15		
AES 1013	Arabic Communications I	3	LSC 1103	Academic Reading & Writing I	3
MTS 1002	Leadership	2	LSC 1503	Academic Spoken Communication	3
LSS 1003	Life & Study Skills	3	LSH 2403	Innovation and Entrepreneurship	3
			LSM 1103	Technical Mathematics	3
			ICT 2013	Computational Thinking and Coding	3
Year 1 Semester 2 (all)			Year 2 Semester 6		
Required Credits: 10			Required Credits: 18		
AES 1003	Emirati Studies	3	AVS 3003	Avionics	3
MTS 1102	Staff Duties	2	AVS 3013	Instruments	3
MTS 1112	Topography	2	AVS 3113	Aviation Safety	3
			AVS 3123	Advanced Navigation	3
				Aviation Elective	3
			AVS 3143	Human Factors	3
Year 2 Semester 4			Year 3 Semester 7		
Required Credits: 18			Required Credits:		
AES 3003	Professional Arabic	3	LSS 1123	Basic Methods of Scientific Research & Development	3
AHM 1203	Aviation Physics	3	AVS 4012	Aviation Physiology	2
AVS 1023	Aviation Calculus	3		Aviation Elective	
AVS 2143	Aircraft Systems and Components	3		Aviation Elective	
AVS 2113	Meteorology I	3		Aviation Elective	
AVS 2123	Principles of Flight	3	Year 3 Semester 8		
AVS 2133	Survival	3	Required Credits:		
			AVS 4126	Project	3
				Aviation Elective	
				Aviation Elective	
				Aviation Elective	
Year 2 Semester 5			Year 3 Semester 9		
Required Credits: 20			Required Credits:		
AVS 1003	Aviation IT Systems	3	AVS 4126	Project	3
MTS 2103	Aircraft Weapons Systems	3		Aviation Elective	
AVS 1013	Aviation Electric & Magnetic Fundamentals	3		Aviation Elective	
AVS 3023	Aero Engines	3		Aviation Elective	
AVS 3103	Airmanship	3			
AVS 3033	Navigation	3			
AVS 3042	Meteorology II	2			

Bachelor in Aviation Science - Fixed Wing Pilot Concentration

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Year 1 Semester 3 (all)			Year 1 Semester 3 (all)		
Required Credits: 18			Required Credits: 18		
AES 3003	Professional Arabic	3	AVS 3003	Avionics	3
AHM 1203	Aviation Physics	3	AVS 3013	Instruments	3
AVS 1023	Aviation Calculus	3	AVS 3113	Aviation Safety	3
AVS 2143	Aircraft Systems and Components	3	AVS 3123	Advanced Navigation	3
AVS 2113	Meteorology I	3	AVS 3133	Aircraft Performance : Aeroplane (Elective)	3
AVS 2123	Principles of Flight	3	AVS 3143	Human Factors	3
AVS 2133	Survival	3			
Year 2 Semester 5			Year 3 Semester 7		
Required Credits: 20			Required Credits: 16		
AVS 1003	Aviation IT Systems	3	LSS 1123	Basic Methods of Scientific Research & Development	3
MTS 2103	Aircraft Weapons Systems	3	AVS 4012	Aviation Physiology	2
AVS 1013	Aviation Electric & Magnetic Fundamentals	3	AFT 4006	Aeroplane Ground School Training (Elective)	6
AVS 3023	Aero Engines	3	AFT 4015	Aeroplane General Handling Ground School (Elective)	5
AVS 3103	Airmanship	3			
AVS 3033	Navigation	3			
AVS 3042	Meteorology II	2			
Year 3 Semester 8			Year 3 Semester 9		
Required Credits: 11			Required Credits: 9		
AVS 4126	Project	3	AVS 4126	Project	3
AFT 4025	Aeroplane General Handling Flying (Elective)	5	AFT 4202	Aeroplane Navigation Flying Phase (Elective)	2
AFT 4101	Aeroplane Instrument Flying Ground School (Elective)	1	AFT 4212	Aeroplane Formation Flying Phase (Elective)	2
AFT 4112	Aeroplane Instrument Flying (Elective)	2	AFT 4221	Aeroplane Night Flying Phase (Elective)	1

Bachelor in Aviation Science - Helicopter Pilot Concentration

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Year 2 Semester 4			Year 2 Semester 6		
Required Credits: 21			Required Credits: 18		
AES 3003	Professional Arabic	3	AVS 3003	Avionics	3
AHM 1203	Aviation Physics	3	AVS 3013	Instruments	3
AVS 2143	Aircraft Systems and Components	3	AVS 3113	Aviation Safety	3
AVS 1023	Aviation Calculus	3	AVS 3123	Advanced Navigation	3
AVS 2113	Meteorology I	3	AVS 3163	Principles of Flight Helicopter (Elective)	3
AVS 2123	Principles of Flight	3	AVS 3143	Human Factors	3
AVS 2133	Survival	3			
Year 2 Semester 5			Year 3 Semester 9		
Required Credits: 20			Required Credits: 8		
AVS 1003	Aviation IT Systems	3	AVS 4126	Project	3
MTS 2103	Aircraft Weapons Systems	3	HFT 4203	Helicopter Navigation (Elective)	3
AVS 1013	Aviation Electric & Magnetic Fundamentals	3	HFT 4212	Helicopter Night Flying (Elective)	2
AVS 3023	Aero Engines	3	HFT 4221	Helicopter Mission Flying (Elective)	1
AVS 3103	Airmanship	3			
AVS 3033	Navigation	3			
AVS 3042	Meteorology II	2			
Year 3 Semester 7			Year 3 Semester 8		
Required Credits: 19			Required Credits: 11		
LSS 1123	Basic Methods of Scientific Research & Development	3	AVS 4126	Project	3
AVS 4003	Aircraft Performance : Helicopter (Elective)	3	HFT 4103	Helicopter General Handling Advanced (Elective)	3
AVS 4012	Aviation Physiology	2	HFT 4113	Helicopter Instrument Flying Ground School (Elective)	3
HFT 4002	Helicopter General Handling Ground School 1 (Elective)	2	HFT 4122	Helicopter Instrument Flying (Elective)	2
HFT 4013	Helicopter General Handling Ground School 2 (Elective)	3			
HFT 4022	Helicopter General Handling Basic (Elective)	2			

Bachelor in Aviation Science - UAV Pilot Concentration

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Year 2 Semester 4			Year 2 Semester 6		
Required Credits: 21			Required Credits: 18		
AES 3003	Professional Arabic	3	AVS 3103	Airmanship	3
AHM 1203	Aviation Physics	3	AVS 3113	Aviation Safety (Elective)	3
AVS 2143	Aircraft Systems and Components	3	AVS 3123	Advanced Navigation (Elective)	3
AVS 1023	Aviation Calculus	3	AVS 3133	Aircraft Performance : Aeroplane (Elective)	3
AVS 2113	Meteorology I	3	AVS 3143	Human Factors	3
AVS 2123	Principles of Flight	3	AVS 3153	Electronic Warfare Systems	3
AVS 2133	Survival	3			
Year 2 Semester 5			Year 3 Semester 7		
Required Credits: 20			Required Credits: 10		
AVS 1003	Aviation IT Systems	3	LSS 1123	Basic Methods of Scientific Research & Development	3
MTS 2103	Aircraft Weapons Systems	3	AVS 4012	Aviation Physiology (Elective)	2
AVS 1013	Aviation Electric & Magnetic Fundamentals	3	UAV 4003	UAV Pilot Ground School	3
AVS 3023	Aero Engines	3	UAV 4012	UAV Pilot General Handling Ground School	2
AVS 3103	Airmanship	3			
AVS 3033	Navigation	3			
AVS 3042	Meteorology II	2			
Year 3 Semester 8 (UAV Pilots)			Year 3 Semester 9		
Required Credits: 13			Required Credits: 12		
AVS 4126	Project	3	AVS 4126	Project	3
UAV 4022	UAV Pilot General Handling Flying (Elective)	2	UAV 4203	UAV Ground School (Elective)	3
UAV 4031	UAV Pilot Instrument Flying (Elective)	1	UAV 4213	Flight Simulation Training (Elective)	3
UAV 4041	UAV Pilot Navigation Flying (Elective)	1	UAV 4223	Flight Training (Elective)	3
UAV 4103	Unmanned Aircraft Operation (Elective)	3			
UAV 4113	Unmanned Vehicle Systems (Elective)	3			

Academic Staff

Ahuja, Anil, Bachelor of Science, National Defence Academy Pune, India

Al Sharnoobi, Ashraf, Bachelor, Air Navigation and B.Sc. in Military Science, Egyptian Air Force Academy

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Anes, Mohamed, Masters, Computer Application, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India

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Badger, Noelle, Masters, Educational Studies – TESOL, University of Newcastle, Australia

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Evans, Chris, Masters, Applied Linguistics and ESL, Georgia State University; Atlanta, Georgia, USA

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Gousteris, George, Masters, Physics of the Atmosphere, Aristotle University, Thessaloniki, Greece

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Hamaydeh, Salah, Bachelor, Physics, Yarmouk University, Jordan

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Jones, Peter, Diploma (DELTA), Teaching of English as a Foreign Language to Adults, University of Cambridge, England

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Okelan, Abdul Kareem Abdul Qader, Masters in Arabic Linguistics, The World Islamic Sciences & Education University, Amman, Jordan

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

Ozdog, Merih Tevs, Masters of Art, Teaching English as a Foreign Language, Bilkent University, Turkey

Pappas, Achilles, Master of Science in Advanced Information Systems, National and Kapodistrian University of Athens, Greece

Ramachandrarao, Manirao, Masters in Engineering, Aeronautical Engineering, Anna University, India

Reddy, Venkata, PhD, Aerospace Engineering, Indian Institute of Science, Bangalore, India

Saleem, Mohammad Javaid, Bachelor, Arts, University of Punjab

Saleh, Mohammed Awad, Bachelor of Art, Arabic Language & Islamic Studies, Cairo University

Sayed, Amr, PhD, Electronics and Communications Engineering, Ain Shames University, Egypt

Scafe, Richard, Masters, E-Business & Technology, Columbia Southern University, USA

Scott, Randy, Masters, Industrial Education, Truman State University in Kirksville, Missouri U.S.A

Shoab, Muhammad, PhD, Applied Mathematics, Glasgow Caledonian University, UK.

Stathopoulos, Christos, Masters of Science, English as a Second Language, Georgia State University; Atlanta, Georgia, USA

Stevens, Vance, Masters, English as a Second Language, University of Hawaii at Manoa-Honolulu, Hawaii, USA

Studholme, Bob, Masters, Applied Linguistics, University of Southern Queensland, Australia

Taylor, Ian, Masters, Applied Linguistics, Open University, UK

Thompson, Martin, Bachelor of Science, Open University UK, Post Graduate Diploma in Management, Bolton University UK

West, Kevin, Masters, Applied Linguistics and English Language Teaching, University of Surrey, UK

Williams, Delphino, Masters, Linguistics, The University of San Francisco via School of Education

Khalifa Bin Zayed Air College

Bachelor of Science in Aviation Support

Admission to program

This program is only open to Officer Cadets already employed by the UAE Armed Forces. 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 Science is jointly determined by the UAE Armed Forces and HCT to meet the requirements of the UAE Armed Forces 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 Armed Forces to enter employment with the UAE Armed Forces 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, aero-sciences, flight and aviation operations in order for them to become professional officers supporting aviation operations on the international defence stage with a vision for the future, and an ethos of loyalty, obedience and dedication to the national duty.

Program Description

The Bachelor of Science in Aviation Support Program prepares students for employment as an Officer in Military Aviation employed in a general or specialist support position in the UAE Armed Forces.

The program provides training for general employment as an Officer in an Aviations Support or specialist Air Defence position. There is one Areas of Concentration for the Bachelor of Science in Aviation Support:

- **Air Defence Officer.**

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 airborne and ground based military aviation equipment in the training environment.

Area of Concentration PLOs:

- PLO 7 Air Defence: Plan and prepare to use Air Defence techniques and technologies on a range of aviation military training missions.

Completion Requirements

Students must successfully complete a minimum of 121 credits, including:	
Military Studies:	12 credits
Aviation Support Core:	51 credits
Aviation Support Electives:	25 credits
General Studies:	33 credits

Air Defence Officer Concentration

Required courses: AVS 2123, ADF 3003, ADF 3013, ADF 4003, ADF 4013, ADF 4123, ADF 4207 from the Aviation Science Electives

Course Credits

Military Studies**Required credits: 12**

MTS 1002	Leadership	2
MTS 1102	Staff Duties	2
MTS 1112	Topography	2
MTS 1123	Air Force History & Organisation	3
MTS 2103	Aircraft Weapons Systems	3

Course Credits

Aviation Support Core**Required credits: 51**

AVS 1003	Aviation IT Systems	3
AVS 1013	Aviation Electric & Magnetic Fundamentals	3
AVS 1023	Aviation Calculus	3
AVS 2113	Meteorology I	3
AVS 2133	Survival	3
AVS 2153	Radar Systems	3
AVS 3033	Navigation	3
AVS 3083	Electrical Systems	3
AVS 3193	Aviation Law	3
AVS 3143	Human Factors	3
AVS 3153	Electronic Warfare Systems	3
AVS 3173	Missile Systems	3
ADF 3103	Air and Space Power	3
ADF 4112	Airspace Management	2
ADF 4134	Aircraft Recognition	4
AVS 4126	Project	6

Course Credits

Aviation Support Electives**Required credits: 25**

AVS 2123	Principles of Flight	3
ADF 3003	Air Defence Systems	3
ADF 3013	Air Defence Tactics	3
ADF 4003	Tactical Communications Systems	3
ADF 4013	Land Forces Organisation & Weapons	3
ADF 4123	Fighter Control	3
ADF 4207	Ground Based Air Defence Systems Operation	7

Course Credits

General Academic Requirements**Required credits: 33**

AES 1013	Arabic Communications I	3
AES 3003	Professional Arabic	3
LSC 1103	Academic Reading & Writing I	3
LSC 1503	Academic Spoken Communication	3
AES 1003	Emirati Studies	3
ICT 2013	Computational Thinking and Coding	3
LSM 1103	Technical Mathematics	3
AHM 1203	Aviation Physics	3
LSS 1003	Life & Study Skills	3
LSS 1123	Basic Methods of Scientific Research & Development	3
LSS 2403	Innovation and Entrepreneurship	3

Recommended Sequence of Study

Bachelor of Science in Aviation Support

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Year 1 Semester 1 (all)			Year 1 Semester 3 (all)		
Required Credits: 8			Required Credits: 18		
AES 1013	Arabic Communications I	3	LSC 1103	Academic Reading & Writing I	3
MTS 1002	Leadership	2	LSC 1503	Academic Spoken Communication	3
LSS 1003	Life & Study Skills	3	LSH 2403	Innovation and Entrepreneurship	3
Year 1 Semester 2 (all)			Year 2 Semester 6		
Required Credits: 10			Required Credits: 15		
AES 1003	Emirati Studies	3	AVS 3083	Electrical Systems	3
MTS 1102	Staff Duties	2	AVS 3193	Aviation Law	3
MTS 1112	Topography	2	AVS 3153	Electronic Warfare Systems	3
Year 2 Semester 4			Year 3 Semester 7		
Required Credits: 18			Required Credits:		
AES 3003	Professional Arabic	3	LSS 1123	Basic Methods of Scientific Research & Development	3
AHM 1203	Aviation Physics	3		Aviation Support Elective	
MTS 2103	Aircraft Weapons Systems	3		Aviation Support Elective	
AVS 2113	Meteorology I	3			
AVS 1023	Aviation Calculus	3			
AVS 2133	Survival	3			
Year 2 Semester 5			Year 3 Semester 8		
Required Credits: 19			Required Credits:		
AVS 1003	Aviation IT Systems	3	AVS 4126	Project	3
AVS 1013	Aviation Electric & Magnetic Fundamentals	3		Aviation Support Elective	
AVS 2153	Radar Systems	3		Aviation Support Elective	
AVS 3033	Navigation	3			
AVS 3143	Human Factors	3			
ADF 4134	Aircraft Recognition	4			
Year 3 Semester 8			Year 3 Semester 9		
Required Credits:			Required Credits:		
AVS 4126	Project	3	AVS 4126	Project	3
ADF 4112	Airspace Management	2		Aviation Support Elective	
	Aviation Support Elective			Aviation Support Elective	
	Aviation Support Elective				

Bachelor of Science in Aviation Support - Air Defence Officer Concentration

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Year 3 Semester 7			Year 3 Semester 9		
Required Credits: 12			Required Credits: 10		
LSS 1123	Basic Methods of Scientific Research & Development	3	AVS 4126	Project	3
AVS 2123	Principles of Flight (Elective)	3	ADF 4207	Ground Based Air Defence Systems Operations (Elective)	7
ADF 4003	Tactical Communications Systems (Elective)	3			
ADF 4013	Land Forces Organisation & Weapons (Elective)	3			
Year 3 Semester 8					
Required Credits: 14					
ADF 4112	Airspace Management	2			
ADF 3003	Air Defence Systems (Elective)	3			
ADF 3013	Air Defence Tactics (Elective)	3			
ADF 4123	Fighter Control (Elective)	3			
AVS 4126	Project	3			

Academic Staff

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Police College

Degrees Offered

- Diploma in Criminal Justice
- Diploma in Law Enforcement
- Diploma in Border Security Operation
- Diploma in Auditing and Discipline Policing

Admission to programs

These program are only open to employees of Abu Dhabi Police and related security departments. Selection to the program is conducted annually by Recruitment and Selection Department by the General Head Quarters of Abu Dhabi Police. The entry requirements for the Diploma programs is jointly determined by the Abu Dhabi Police and HCT to meet the requirements of police staff officer as an employer and the standards for higher education as set by the Commission for Academic Accreditation.

Program Mission

The programs will provide graduates with the skills and responsibility, basic knowledge of police communication and leadership skills required by modern police operations, this will enable them to function effectively as staff police officers within Abu Dhabi Police.

Program Descriptions

The programs are designed to develop core business and policing skills, responsibilities, and competencies following the Abu Dhabi Police Dictionary of Competencies and are aligned to the National Qualifications Framework. The programs provide hands-on training as staff officers in the relevant field departments.

Program Learning Outcomes

In addition to the generic graduate outcomes related to the Diploma graduates of the Higher Colleges of Technology, students, upon completion of the programs, will be able to:

- Function with the basic competencies to undertake the tasks, duties and responsibilities of Law Enforcement officer operations.
- Communicate effectively and concisely base in relevant criminal law procedures as best Law Enforcement professional practise.
- Identify, Security operational rules and solving problems encountered in the practice of performing the role of Law Enforcement officer according to police code of conducts and values.
- Operate tasks, Law Enforcement supporting technology systems and social security aspects.

Completion Requirements

Diploma in Criminal Justice	
Diploma in Law Enforcement	
Diploma in Auditing and Discipline Policing	
Students must successfully complete a minimum of 60 semester credits including:	
Security Studies Core Courses:	15 credits.
Security studies Electives:	6 credits
Diploma Major Core courses:	12 credits
Work Experience:	9 credits
General Studies:	18 credits

Diploma in Border Security Operation	
Students must successfully complete a minimum of 63 semester credits including:	
Security Studies Core Courses:	15 credits.
Security studies Electives:	6 credits
Diploma Major Core courses:	15 credits
Work Experience:	9 credits
General Studies:	18 credits

Course Credits

Security Studies Core Courses (compulsory)

Required Credits: 24 (Work Experience is included)

MAS 1003	Introduction to Law	3
PST 1013	Skills & Responsibility I	3
PST 1123	Criminal Law	3
PST 1023	Traffic Law I	3
PST 1003	Criminal Procedure	3
PCJ 2123	Work Experience	9

Security Studies Electives

Required Credits: 6

PST 1003	Human Rights	3
PST 1123	Islamic Culture	3
PST 1033	Infantry Police And Practice Applications	3
PST 1103	Weapon Science And Practice	3
PST 1133	Maintaining Public Order	3
PCJ 2023	Project Management for Law Enforcement	3
PST 2045	Performance Appraisal	3
PST 1153	Computer Skills & IT Correspondence systems	3

Diploma for Criminal justice Core Courses

Required Credits: 12

PCJ 2001	Criminal Investigations I	3
PCJ 2003	Special Criminal Legislation	3
PCJ 2041	Criminal Procedure of Evidence	3
PCJ 2043	Community Policing	3

Diploma for Law Enforcement Core Courses

Required Credits: 12

PLE 2001	Management Punitive and Correctional Establishments	3
PLE 2023	Introduction to Criminology	3
PLE 2041	Management and Police Skills	3
PLE 2063	Police Applications and System Practise	3

Diploma of Border Security Operations Core Courses

Required Credits: 15

BSO 1013	Basic Airport Security I	3
BSO 1023	Aviation Safety and Security	3
BSO 2013	UAE Aviation Law And International Treaties	3
BSO 2023	Residence and Foreigners Affairs Procedures	3
BSO 2063	Quality Control (Airport Security Audit and Inspection)	3

Course Credits

Diploma for Auditing and Discipline Policing Core Courses

Required Credits: 12

PAD 1013	Basic in police audit and discipline	3
PST 1103	Security Awareness	3
PAD 1023	Audit Inspection & Investigation	3
PAD 1103	Operational Auditing (tool, mothed)	3

General Studies

Required Credits: 18

AES 1003	Emirati Studies	3
LSS 2403	Innovation and Entrepreneurship	3
LSS 2533	Research Methods	3
LSC 2183	English For Special Purposes	3
AES 3003	Proccessional Arabic	3
LSS 1003	Life & Study Skills	3

Recommended Sequence of Study

Diploma in Criminal Justice

Course Code	Course Title	Course Credits
Year 1 Semester 1		
Total Credits: 15		
MAS 1003	Introduction to Law (CC)	3
PST 1013	Skills & Responsibility I (CC)	3
LSS 2533	Research Methods (GS)	3
AES 1003	Emirati Studies (GS)	3
AES 3003	Processional Arabic (GS)	3
Year 2 Semester 1		
Total Credits: 18		
PCJ 2001	Criminal Investigations I (CJ)	3
PCJ 2003	Special Criminal Legislation (CJ)	3
PST 1123	Criminal Law (CC)	3
PCJ 2123	Work Experience (CC)	9

Course Code	Course Title	Course Credits
Year 1 Semester 2		
Total Credits: 15		
PST 1023	Traffic Law (CC)	3
PST 1003	Criminal Procedure (CC)	3
LSC 2183	English For Special Purposes (GS)	3
LSS 2403	Innovation and Entrepreneurship (GS)	3
LSS 1003	Life & Study Skills (GS)	3
Year 2 Semester 2		
Total Credits: 12		
PCJ 2041	Criminal Procedure of Evidence (CJ)	3
PCJ 2043	Community Policing (CJ)	3
PST XXXX	Elective Course	3
PST XXXX	Elective Course	3

Diploma in Law Enforcement

Course Code	Course Title	Course Credits
Year 1 Semester 1		
Total Credits: 15		
MAS 1003	Introduction to Law (CC)	3
PST 1013	Skills & Responsibility I (CC)	3
LSS 2533	Research Methods (GS)	3
AES 1003	Emirati Studies (GS)	3
AES 3003	Processional Arabic (GS)	3
Year 2 Semester 1		
Total Credits: 18		
PLE 2001	Management Punitive and Correctional Establishments(LE)	3
PLE 2023	Introduction to Criminology(LE)	3
PST 1123	Criminal Law (CC)	3
PCJ 2123	Work Experience (CC)	9

Course Code	Course Title	Course Credits
Year 1 Semester 2		
Total Credits: 15		
PST 1023	Traffic Law (CC)	3
PST 1003	Criminal Procedure (CC)	3
LSC 2183	English For Special Purposes (GS)	3
LSS 2403	Innovation and Entrepreneurship (GS)	3
LSS 1003	Life & Study Skills (GS)	3
Year 2 Semester 2		
Total Credits: 12		
PLE 2041	Management and Police Skills (LE)	3
PLE 2063	Police Applications and System Practice (LE).	3
PST XXXX	Elective Course	3
PST XXXX	Elective Course	3

Diploma for Auditing and Discipline Policing

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Year 1 Semester 1			Year 1 Semester 2		
Total Credits: 15			Total Credits: 15		
MAS 1003	Introduction to Law (CC)	3	PST 1023	Traffic Law (CC)	3
PST 1013	Skills & Responsibility I (CC)	3	PST 1003	Criminal Procedure (CC)	3
LSS 2533	Research Methods (GS)	3	LSC 2183	English For Special Purposes (GS)	3
AES 1003	Emirati Studies (GS)	3	LSS 2403	Innovation and Entrepreneurship (GS)	3
AES 3003	Processional Arabic (GS)	3	LSS 1003	Life & Study Skills (GS)	3
Year 2 Semester 1			Year 2 Semester 2		
Total Credits: 18			Total Credits: 12		
PAD 1013	Basic in police audit and discipline(AP)	3	PAD 1023	Audit Inspection & Investigation (AP)	3
PST 1103	Security Awareness(AP)	3	PAD 1103	Operational Auditing (tool, Method) (AP)	3
PST 1123	Criminal Law (CC)	3	PST XXXX	Elective Course	3
PCJ 2123	Work Experience (CC)	9	PST XXXX	Elective Course	3

Diploma for Border Security Operations

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Year 1 Semester 1			Year 1 Semester 2		
Total Credits: 15			Total Credits: 15		
MAS 1003	Introduction to Law (CC)	3	PST 1023	Traffic Law (CC)	3
PST 1013	Skills & Responsibility I (CC)	3	PST 1003	Criminal Procedure (CC)	3
LSS 2533	Research Methods (GS)	3	LSC 2183	English For Special Purposes (GS)	3
AES 1003	Emirati Studies (GS)	3	LSS 2403	Innovation and Entrepreneurship (GS)	3
AES 3003	Processional Arabic (GS)	3	LSS 1003	Life & Study Skills (GS)	3
Year 2 Semester 1			Year 2 Semester 2		
Total Credits: 18			Total Credits: 15		
BSO 1013	Basic Airport Security I (BS)	3	BSO 2013	UAE Aviation Law And International Treaties (BS)	3
BSO 1023	Aviation Safety and Security(BS)	3	BSO 2023	Residence and Foreigners Affairs Procedures(BS)	3
PST 1123	Criminal Law (CC)	3	BSO 2063	Quality Control (Airport Security Audit and Inspection) (BS).	3
PCJ 2123	Work Experience (CC)	9	PST XXXX	Elective Course	3
			PST XXXX	Elective Course	3

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Rashid Bin Saeed al Maktoum Naval College

Bachelor of Naval Science

Admission to program

This program is only open to Officer Cadets already employed by the UAE Defence Force. Admission 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 number of cadets admitted to the Naval College is determined by the general policy of GHQ.

Program Mission

The program provides graduates with the scientific/ technological knowledge, communication and leadership skills required for the exploitation of the increasingly complex technologies involved in modern naval operations. The planned integration of curriculum is aimed at producing graduates with the necessary scientific, technical, communication and cognitive skills which will enable them to function effectively as naval officers, whilst ensuring that the HCT Graduate Outcomes for graduates of the Higher Colleges of Technology are met. The program will produce graduates capable of working as effective executive officers in the UAE Navy.

Program Description

The program has been designed to provide concurrent academic and military studies. When cadets are at the Naval College, the emphasis of their training will be on academic and professional studies to develop their intellectual capabilities, professional knowledge and vocational utility. The other important emphasis will be on military education and training to develop the qualities of character and leadership that are appropriate to officers in the UAE Naval Forces.

The program includes academic courses with naval relevance and focus, which are integrated with the professional courses and targeted specifically at the future executive officers of the UAE Navy. It provides cadets with the best possible combination of military knowledge, naval science, leadership and management skills and practical professional training.

To provide a broad base of academic skills and intellectual capacity, the program includes a general foundation of management, Islamic studies, physics, mathematics, information technology, scientific and technical courses, in addition to fundamental courses in English language and effective communication. These courses develop cadets' ability to reflect on their personal performance

and capability as professional naval officers. They will, in addition, develop awareness of their nation and the world around them. Key communication skills, together with appropriate cognitive skills such as critical thinking and quantitative reasoning, will also be developed during the program.

To complete the cadets' development, the program provides a sequence of professional courses in naval sciences selected to equip them with the knowledge required to assume a leadership position in the UAE Naval Forces. The midshipmen training program works in conjunction with the professional naval courses to provide students with a diverse learning experience.

Program Goals

The aim of the program is to produce naval leaders of character and vision. Officers will ascribe to the College core values of integrity first, service before self, and excellence in all that they do. To that end, the curriculum is designed to ensure that each graduate enters the UAE Navy with the unique combination of education and professional skills required by a naval officer.

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

- Demonstrate a knowledge base in marine science, navigation and technology, suitable for a career as a marine professional
- Employ the necessary seamanship, communication and navigation skills to safely operate military vessels
- Show appropriate officer-like qualities of discipline, leadership, management and physical fitness
- Deploy a range of scientific, technical, communication and transferable skills which will enhance their effectiveness in their chosen career
- Manage and reflect on their own work, lifelong-learning and professional development

Program Learning Outcomes – Diploma:

- PLO 1. Demonstrate traits of sound discipline, leadership, decision making, intellectual curiosity, ability to communicate effectively, work in teams, and the knowledge and determination to uphold the values of UAE.
- PLO 2. Demonstrate sound knowledge of General Studies and Naval Science subjects as applied in Naval environments.
- PLO 3. Apply basic Navigation skills to ensure safe passage at sea. Recognise the navigational aids, their operation, and understand the maritime operating environments.
- PLO 4. Recognize seamanship gear and its operation in conduct of operations including anchor and cable work, rope work, boat work, berthing, replenishment, and search and rescue missions.
- PLO 5. Demonstrate a basic knowledge of naval warfare, operations and tactics including, general operations, above water warfare, underwater warfare and air warfare.

Program Learning Outcomes – Bachelor:

- PLO 1. Ability to exhibit situational appreciation, analytical and leadership qualities. Display effective attitude and beliefs to perform the role of military commanders.
- PLO 2. Demonstrate the ability to make rational operational decisions based on sound knowledge of naval equipment, machinery, weapons and sensors.
- PLO 3. Ability to take decisions under various Naval Warfare and Operations to ensure safety of naval platforms.
- PLO 4. Demonstrate complete understanding of handling naval platforms Damage Control and NBCD states.
- PLO 5. Confidently exhibit navigational, communications, and operational skills in multi-platform, multi-threat naval scenarios.
- PLO 6. Demonstrate sound knowledge of Rules of Road, and Rules of Engagements at sea.

Completion Requirements**Bachelor of Naval Science with Diploma Exit
2017 Program Matrix**

General Studies (GS)		
Total Credits: 33		
LSC 1103	Academic Reading and Writing I	3
LSC 1503	Academic Spoken Communication	3
ICT 2013	Computational Thinking and Coding	3
AES 3003	Professional Arabic	3
AES 1013	Arabic Communications I	3
LSS 1003	Life and Study Skills	3
AES 1003	Emirati Studies	3
PHY 1103	Physics I	3
LSM 1103	Technical Mathematics	3
LSS 2403	Innovation & Entrepreneurship	3
LSS 1123	Basic Methods of Scientific Research and Development	3
Naval Science and Engineering Core Courses		
Total Credits: 24		
NSE 1003	Fluid Mechanics for Naval Applications	3
NSE 2003	Ship Electrical Technology	3
NSE 2013	Principles of Naval Sensors	3
NSE 2023	Maritime Environment and Law of the Sea	3
NSE 1013	Ship Structure and Damage Control I	3
NSE 2033	Ship Structure and Damage Control II	3
NSE 2043	Ship Propulsion I	3
NSE 2103	Ship Propulsion II	3
Naval Professional Core Courses – Diploma Exit		
Total Credits: 30		
NPS 2103	Naval Leadership and Management	3
NPS 2004	Seamanship I	3
NPS 2113	Seamanship II	3
NAV 1104	Navigation I	4
NAV 2004	Navigation II	4
NAV 2104	Navigation III	4
NWR 1103	Naval Warfare and Operations I	3
NWR 2103	Naval Warfare and Operations II	3
NPS 2013	Naval Communications	3
Midshipman Sea Training Courses		
Total Credits: 15		
NPS 3003	Midshipman Sea Time - Seamanship	3
NPS 3013	Midshipman Sea Time - Navigation	3
NPS 3023	Midshipman Sea Time - Naval Engineering	3
NPS 3033	Midshipman Sea Time - Naval Operations & Communications	3
NPS 3043	Midshipman Sea Time - Fleet Work Simulator	3

Distribution of Courses – Diploma Exit	
Total Credits for Naval Science Diploma Exit: 102	
General Studies Courses	33
Naval Science and Engineering Core Courses	24
Naval Professional Core Courses –Diploma Exit	30
Midshipman Sea Training Courses	15

**Continuation to Bachelor Following Diploma Exit
2017 Program Matrix**

Naval Professional Core Courses - Naval Science Bachelor Degree		
Total Credits: 29		
NAV 4003	Navigation Team Training	3
NPS 4003	Bridge & Ship Systems	3
NAV 4014	Ocean Navigation	4
NAV 4023	Coastal Navigation	3
NAV 4033	Restricted Waters Navigation	3
NWR 4013	Above Water Warfare	3
NWR 4003	Surface & Subsurface Warfare	3
NPS 4124	Communications & Intelligence	4
NPS 4133	Capstone Project	3

Distribution of Courses – Bachelor Exit	
Total Credits for Naval Science Diploma Exit	102
Naval Professional Core Courses –Bachelor Exit	29
Total Credits for Naval Science Bachelor Degree	131

Recommended Sequence of Study

Bachelor in Naval Science

Year 1: Semesters I and II

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
Semester I			Semester II		
Total Credits: 15			Total Credits: 25		
AES 1013	Arabic Communications I	3	AES 1003	Emirati Studies	3
PHY 1103	Physics I	3	NWR 1103	Naval Warfare and Operations I	3
LSM 1103	Technical Mathematics	3	NAV 1104	Navigation I	4
LSS 1003	Life and Study Skills	3	NSE 1003	Fluid Mechanics for Naval Applications	3
NPS 2004	Seamanship I	3	NSE 2003	Ship Electrical Technology	3
			LSC 1503	Academic Spoken Communication	3
			NPS 2113	Seamanship II	3
			LSC 1103	Academic Reading and Writing I	3

Year 2: Semester III and IV

Semester III			Semester IV		
Total Credits: 22			Total Credits: 25		
NSE 1013	Ship Structure and Damage Control I	3	NSE 2033	Ship Structure and Damage Control II	3
AES 3003	Professional Arabic	3	ICT 2013	Computational Thinking and Coding	3
LSS 2403	Innovation and Entrepreneurship	3	LSS 1123	Basic Methods of Scientific Research and Development	3
NPS 2013	Naval Communications	3	NPS 2103	Naval leadership and Management	3
NAV 2004	Navigation II	4	NWR 2103	Naval Warfare and Operations II	3
NSE 2013	Principles of Naval Sensors	3	NAV 2104	Navigation III	4
NSE 2043	Ship Propulsion I	3	NSE 2023	Maritime Environment and Law of the Sea	3
			NSE 2103	Ship Propulsion II	3

At Sea Year 3: Semester V

Semester V - Midshipman Training		
Total Credits: 15		
NPS 3003	Midshipman Sea Time - Seamanship	3
NPS 3013	Midshipman Sea Time - Navigation	3
NPS 3023	Midshipman Sea Time - Naval Engineering	3
NPS 3033	Midshipman Sea Time - Naval Operations and Communications	3
NPS 3043	Midshipman Sea Time - Fleet Work Simulator	3

Diploma exit after Semester 5

At Naval Forces Institute - Year 4: Semesters VI and VII

Semester VI			Semester VII		
Total Credits: 16			Total Credits: 13		
NAV 4014	Ocean Navigation	4	NAV 4003	Navigation team Training	3
NAV 4023	Coastal Navigation	3	NPS 4124	Communications and Intelligence	4
NAV 4033	Restricted Waters Navigation	3	NWR 4003	Surface and Sub-Surface Warfare	3
NPS 4003	Bridge and Ship Systems	3	NPS 4133	Capstone Project	3
NWR 4013	Above Water Warfare	3			

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