

# AVIATION SUPPORT

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 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 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 Aviation Support or Specialist Air Defense.

## 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 utilize 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 Defense: Plan and prepare to use Air Defense techniques and technologies on a range of aviation military training missions.

## Requirements Completion Requirements

Students must successfully complete a minimum of 121 credits, including:

Code	Title	Credit Hours
	Military Studies	12
	Aviation Core	51
	Aviation Electives	25
	General Studies	33
Total Credit Hours		121

Code	Title	Credit Hours
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### Aviation Support Core Courses

Required Credits: 51		
ADF 3103	Air and Space Power	3
ADF 4112	Airspace Management	2
ADF 4134	Aircraft Recognition	4
AVS 1013	Aviation Electric and 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 3053	Electrical Systems	3
AVS 3143	Human Factors	3
AVS 3153	Electronic Warfare Systems	3
AVS 3173	Missile Systems	3
AVS 3193	Aviation Law	3
AVS 4123	Capstone Project I	3
AVS 4133	Capstone Project II	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

### Air Defense Officer Courses

Required Credits: 25		
ADF 3003	Air Defence Systems	3
ADF 3013	Air Defence Tactics	3
ADF 4003	Tactical Communications Systems	3
ADF 4013	Land Forces Organisation and Weapons	3
ADF 4123	Fighter Control	3
ADF 4207	Ground Based Air Defence Systems Operation	7
AVS 2123	Principles of Flight	3

### General Studies

Required Credits: 33

**English, Arabic or other Languages**

Required Credits: 12

**Humanities or Art**

Required Credits: 3

**Information Technology or Mathematics**

Required Credits: 6

**The Natural Sciences**

Required Credits: 3

**The Social or Behavioral Sciences**

Required Credits: 9

## Ideal Study Plan

### Recommended Sequence of Study

**Year 1**

Semester 1		Credit Hours
AES 1013	Arabic Communications I	3
LSS 1003	Life and Future Skills	3
MTS 1002	Leadership	2
	Credit Hours	8
<b>Semester 2</b>		
AES 1003	Emirati Studies	3
MTS 1102	Staff Duties	2
MTS 1112	Topography	2
	Credit Hours	7
<b>Summer</b>		
ICT 2013	Computational Thinking and Coding	3
LSC 1103	Professional Communication and Reporting	3
LSC 1503	Academic Spoken Communication	3
LSM 1103	Technical Mathematics	3
MTS 1123	Air Force History and Organisation	3
PST 1173	Islamic Studies	3
	Credit Hours	18

**Year 2**

Semester 1		Credit Hours
AES 3003	Professional Arabic	3
AHM 1203	Aviation Physics	3
AVS 1023	Aviation Calculus	3
AVS 2113	Meteorology I	3
AVS 2133	Survival	3
MTS 2103	Aircraft Weapons Systems	3
	Credit Hours	18
<b>Semester 2</b>		
ADF 4134	Aircraft Recognition	4
AVS 1013	Aviation Electric and Magnetic Fundamentals	3
AVS 2153	Radar Systems	3
AVS 3033	Navigation	3
AVS 3143	Human Factors	3
AVS 4123	Capstone Project I	3
	Credit Hours	19
<b>Summer</b>		
ADF 3103	Air and Space Power	3
AVS 3053	Electrical Systems	3
AVS 3153	Electronic Warfare Systems	3
AVS 3173	Missile Systems	3
AVS 3193	Aviation Law	3
AVS 4133	Capstone Project II	3
	Credit Hours	18

**Year 3****Semester 1**

ADF 4003	Tactical Communications Systems	3
ADF 4013	Land Forces Organisation and Weapons	3
AVS 2123	Principles of Flight	3
LSS 1123	Basic Research Methods	3
MTS 1133	Warfare Tactics	3
	Credit Hours	15

**Semester 2**

ADF 3003	Air Defence Systems	3
ADF 3013	Air Defence Tactics	3
ADF 4112	Airspace Management	2
ADF 4123	Fighter Control	3
	Credit Hours	11

**Summer**

ADF 4207	Ground Based Air Defence Systems Operation	7
	Credit Hours	7
	Total Credit Hours	121

## Faculty and Academic Staff

**Abdelsalam Elabsy**, PhD, Physics, University of Maine, USA

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