

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 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 |
|------|-------|--------------|
|------|-------|--------------|

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 |
| Semester 2 | | |
| AES 1003 | Emirati Studies | 3 |
| MTS 1102 | Staff Duties | 2 |
| MTS 1112 | Topography | 2 |
| | Credit Hours | 7 |
| Summer | | |
| 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 3 | | |
| AES 3003 | | 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 |
| Semester 4 | | |
| 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 |
| Summer | | |
| 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 5**

| | | |
|----------|--------------------------------------|----|
| 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 6

| | | |
|----------|---------------------|----|
| 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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