

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 Defense Force to provide education for the future Officers of the Police and UAE Defense 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

# Bachelor of Aviation Science

## Admission to program

This program is only open to Officer Cadets already employed by the UAE Defense 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 & Defense Force and HCT to meet the requirements of the UAE Defense 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 Defense Force to enter employment with the UAE Defense 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 defense 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 Defense Force.

The program provides training for general employment as an Officer or specific employment as a specialist through one of three 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 utilize 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

Concentration Code: AFT

### Required courses:

AFT 4006	Aeroplane Ground School Training
AFT 4015	Aeroplane General Handling Ground School
AFT 4025	Aeroplane General Handling Flying
AFT 4101	Aeroplane Instrument Flying Ground School
AFT 4112	Aeroplane Instrument Flying
AFT 4202	Aeroplane Navigation Flying Phase
AFT 4212	Aeroplane Formation Flying Phase
AFT 4221	Aeroplane Night Flying Phase
AVS 3133	Aircraft Performance: Aeroplane

## Helicopter Pilot Concentration

Concentration Code: HFT

### Required courses:

AVS 3163	Principles of Flight Helicopter
AVS 4003	Aircraft Performance: Helicopter
HFT 4002	Helicopter General Handling Ground School I
HFT 4013	Helicopter General Handling Ground School II
HFT 4022	Helicopter General Handling Basic
HFT 4103	Helicopter General Handling Advanced
HFT 4113	Helicopter Instrument Flying Ground School
HFT 4122	Helicopter Instrument Flying
HFT 4203	Helicopter Navigation
HFT 4212	Helicopter Night Flying
HFT 4221	Helicopter Mission Flying

**UAV Pilot Concentration**

Concentration Code: UAV

*Required courses:*

AVS 3133	Aircraft Performance: Aeroplane	
UAV 4003	UAV Pilot Ground School	
UAV 4012	UAV Pilot General Handling Ground School	
UAV 4022	UAV Pilot General Handling Flying	
UAV 4031	UAV Pilot Instrument Flying	
UAV 4041	UAV Pilot Navigation Flying	
UAV 4103	Unmanned Aircraft Operations	
UAV 4113	Unmanned Vehicle Systems	
UAV 4203	UAV Ground School	
UAV 4213	Flight Simulation Training	
UAV 4223	Flight Training	

Course Credits

**Military Studies Courses**

Required credits: 9

MTS 1002	Leadership	2
MTS 1102	Staff Duties	2
MTS 1112	Topography	2
MTS 2103	Aircraft Weapons Systems	3

**Aviation Science Core Courses**

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

Course Credits

**General Studies**

Required Credits: 33

English, Arabic or other Languages	12
Humanities or Art	3
Information Technology or Mathematics	6
The Natural Sciences	3
The Social or Behavioral Sciences	9

Course Credits

**Aviation Science Elective Courses**

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 3163	Principles of Flight Helicopter	3
AVS 4003	Aircraft Performance : Helicopter	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	Flight Simulation Training	3
UAV 4223	Flight Training	3

## Recommended Sequence of Study

### Bachelor in Aviation Science - Common Year

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
<b>Year 1 Semester 1</b>			<b>Year 1 Semester 2</b>		
<b>Required Credits: 8</b>			<b>Required Credits: 7</b>		
AES 1013	Arabic Communications I	3	AES 1003	Emirati Studies	3
LSS 1003	Life & Study Skills	3	MTS 1102	Staff Duties	2
MTS 1002	Leadership	2	MTS 1112	Topography	2
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<b>Year 1 Semester 3</b>					
<b>Required Credits: 15</b>					
ICT 2013	Computational Thinking and Coding	3			
LSC 1103	Academic Reading & Writing I	3			
LSC 1503	Academic Spoken Communication	3			
LSM 1103	Technical Mathematics	3			
LSS 2403	Innovation and Entrepreneurship	3			

**Bachelor in Aviation Science (Fixed Wing Pilot)**

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
<b>Year 2 Semester 4</b>			<b>Year 2 Semester 5</b>		
<b>Required Credits: 21</b>			<b>Required Credits: 20</b>		
AES 3003	Professional Arabic	3	AVS 1003	Aviation IT Systems	3
AHM 1203	Aviation Physics	3	AVS 1013	Aviation Electric & Magnetic Fundamentals	3
AVS 1023	Aviation Calculus	3	AVS 3023	Aero Engines	3
AVS 2113	Meteorology I	3	AVS 3033	Navigation	3
AVS 2123	Principles of Flight	3	AVS 3042	Meteorology II	2
AVS 2133	Survival	3	AVS 3103	Airmanship	3
AVS 2143	Aircraft Systems and Components	3	MTS 2103	Aircraft Weapons Systems	3
<b>Year 2 Semester 6</b>			<b>Year 3 Semester 7</b>		
<b>Required Credits: 18</b>			<b>Required Credits: 16</b>		
AVS 3003	Avionics	3	AFT 4006	Aeroplane Ground School Training	6
AVS 3013	Instruments	3	AFT 4015	Aeroplane General Handling Ground School	5
AVS 3113	Aviation Safety	3	AVS 4012	Aviation Physiology	2
AVS 3123	Advanced Navigation	3	LSS 1123	Basic Methods of Scientific Research & Development	3
AVS 3133	Aircraft Performance : Aeroplane	3	<b>Year 3 Semester 8</b>		
AVS 3143	Human Factors	3	<b>Required Credits: 11</b>		
<b>Year 3 Semester 9</b>			AFT 4025	Aeroplane General Handling Flying	5
<b>Required Credits: 8</b>			AFT 4101	Aeroplane Instrument Flying Ground School	1
AFT 4202	Aeroplane Navigation Flying Phase	2	AFT 4112	Aeroplane Instrument Flying	2
AFT 4212	Aeroplane Formation Flying Phase	2	AVS 4126	Project	3
AFT 4221	Aeroplane Night Flying Phase	1			
AVS 4126	Project	3			

**Bachelor in Aviation Science (Helicopter Pilot)**

Course Code	Course Title	Course Credits
<b>Year 2 Semester 4</b>		
<b>Required Credits: 21</b>		
AES 3003	Professional Arabic	3
AHM 1203	Aviation Physics	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

<b>Year 2 Semester 6</b>		
<b>Required Credits: 18</b>		
AVS 3003	Avionics	3
AVS 3013	Instruments	3
AVS 3113	Aviation Safety	3
AVS 3123	Advanced Navigation	3
AVS 3143	Human Factors	3
AVS 3163	Principles of Flight Helicopter	3

<b>Year 3 Semester 7</b>		
<b>Required Credits: 15</b>		
AVS 4003	Aircraft Performance : Helicopter	3
AVS 4012	Aviation Physiology	2
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
LSS 1123	Basic Methods of Scientific Research & Development	3

<b>Year 3 Semester 9</b>		
<b>Required Credits: 9</b>		
AVS 4126	Project	3
HFT 4203	Helicopter Navigation	3
HFT 4212	Helicopter Night Flying	2
HFT 4221	Helicopter Mission Flying	1

Course Code	Course Title	Course Credits
<b>Year 2 Semester 5</b>		
<b>Required Credits: 20</b>		
AVS 1003	Aviation IT Systems	3
AVS 1013	Aviation Electric & Magnetic Fundamentals	3
AVS 3023	Aero Engines	3
AVS 3033	Navigation	3
AVS 3042	Meteorology II	2
AVS 3103	Airmanship	3
MTS 2103	Aircraft Weapons Systems	3

<b>Year 3 Semester 8</b>		
<b>Required Credits: 11</b>		
AVS 4126	Project	3
HFT 4103	Helicopter General Handling Advanced	3
HFT 4113	Helicopter Instrument Flying Ground School	3
HFT 4122	Helicopter Instrument Flying	2



**Bachelor in Aviation Science (UAV Pilot)**

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

## Academic Staff

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

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

**Mohammad Javid Saleem**, Bachelor, Arts, University of Punjab, Pakistan

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

**Mostafa Moussa Emam**, PhD, Engineering Physics, Military Technical College, Cairo, Egypt

**Muhammad Shoaib**, PhD, Applied Mathematics, Glasgow Caledonian University, UK

**Nery Alvarado**, Masters, TESOL - Media-Assisted Language Teaching and Learning, University of Brighton, UK

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

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

**Randy Scott**, Masters, Industrial Education, Truman State University in Kirksville, Missouri USA

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

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

**Saad Ali Ahmed Moustafa**, Master of Arts in Arabic Grammar, Morphology and Poetry Scaling, Darul Uloom Deoband India

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

**Sule Duzgun**, Masters, English as a Foreign Language, Bilkent University Ankara, Turkey

**Vasiliki Gkikopoulou**, Masters, Applied Linguistics, University of Leeds, UK

**Ziaul Chaudhri**, Bachelor of Science, Aviation, University of Peshawar, Pakistan

# 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.

## Completion Requirements

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

Course Credits

<b>Military Studies Courses</b>		
Required credits: 12		
MTS 1002	Leadership	2
MTS 1102	Staff Duties	2
MTS 1112	Topography	2
MTS 1123	Air Force History & Organization	3
MTS 2103	Aircraft Weapons Systems	3
<b>Aviation Support Core Courses</b>		
Required credits: 51		
ADF 3103	Air and Space Power	3
ADF 4112	Airspace Management	2
ADF 4134	Aircraft Recognition	4
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 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 4126	Project	6

Course Credits

<b>Air Defense Officer Courses</b>		
Required credits: 25		
ADF 3003	Air Defense Systems	3
ADF 3013	Air Defense Tactics	3
ADF 4003	Tactical Communications Systems	3
ADF 4013	Land Forces Organization & Weapons	3
ADF 4123	Fighter Control	3
ADF 4207	Ground Based Air Defense Systems Operation	7
AVS 2123	Principles of Flight	3
<b>General Studies</b>		
Required Credits: 33		
English, Arabic or other Languages		12
Humanities or Art		3
Information Technology or Mathematics		6
The Natural Sciences		3
The Social or Behavioral Sciences		9

# Recommended Sequence of Study

## Bachelor of Science in Aviation Support (Air Defense Officer)

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
<b>Year 1 Semester 1</b>			<b>Year 1 Semester 2</b>		
Required Credits: 8			Required Credits: 7		
AES 1013	Arabic Communications I	3	AES 1003	Emirati Studies	3
LSS 1003	Life & Study Skills	3	MTS 1102	Staff Duties	2
MTS 1002	Leadership	2	MTS 1112	Topography	2
<b>Year 1 Semester 3</b>			<b>Year 2 Semester 5</b>		
Required Credits: 18			Required Credits: 19		
ICT 2013	Computational Thinking and Coding	3	ADF 4134	Aircraft Recognition	4
LSC 1103	Academic Reading & Writing I	3	AVS 1003	Aviation IT Systems	3
LSC 1503	Academic Spoken Communication	3	AVS 1013	Aviation Electric & Magnetic Fundamentals	3
LSM 1103	Technical Mathematics	3	AVS 2153	Radar Systems	3
LSS 2403	Innovation and Entrepreneurship	3	AVS 3033	Navigation	3
MTS 1123	Air Force History & Organization	3	AVS 3143	Human Factors	3
<b>Year 2 Semester 4</b>			<b>Year 3 Semester 7</b>		
Required Credits: 18			Required Credits: 12		
AES 3003	Professional Arabic	3	ADF 4003	Tactical Communications Systems	3
AHM 1203	Aviation Physics	3	ADF 4013	Land Forces Organization & Weapons	3
AVS 1023	Aviation Calculus	3	AVS 2123	Principles of Flight	3
AVS 2113	Meteorology I	3	LSS 1123	Basic Methods of Scientific Research & Development	3
AVS 2133	Survival	3			
MTS 2103	Aircraft Weapons Systems	3			
<b>Year 2 Semester 6</b>			<b>Year 3 Semester 8</b>		
Required Credits: 15			Required Credits: 14		
ADF 3103	Air & Space Power	3	ADF 3003	Air Defense Systems	3
AVS 3053	Electrical Systems	3	ADF 3013	Air Defense Tactics	3
AVS 3153	Electronic Warfare Systems	3	ADF 4112	Airspace Management	2
AVS 3173	Missile Systems	3	ADF 4123	Fighter Control	3
AVS 3193	Aviation Law	3	AVS 4126	Project	3
<b>Year 3 Semester 9</b>			<b>Year 3 Semester 9</b>		
Required Credits: 10			Required Credits: 10		
ADF 4207	Ground Based Air Defense Systems Operations	7			
AVS 4126	Project	3			

## Academic Staff

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

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## Security Studies College

### Degrees Offered

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

### Admission to programs

These programs are open to students in security related departments and employees in the Border Security field.

### Program Mission

- **Diploma in Criminal Justice:** This program is designed to enable students to implement the criminal justice system, communicate effectively with the public, understand criminology concepts and terminology, explain local legislation related to the criminal justice, and to use technology and techniques aligned with the security code of conduct in crime scene management.
- **Diploma in Law Enforcement:** This program is designed to build competencies in the field of security operations. It enables students to understand the terminology used in security operations, develops security skills and the ability to communicate effectively with public from various backgrounds. On completing this program, the student will understand the mechanisms of applying regulations and instructions within the framework of security operations and the use of modern techniques and technology. This program provides students with the ability to determine the best method of dealing with unusual situations or crises and to manage security events professionally.
- **Diploma in Border Security Operations:** This program is designed to develop the competencies of border security personnel. The program develops the understanding of the procedures used in border security operations and builds the skill of communicating with the public during the application of local legislation. On completing this program, the student will have the ability to prepare reports and to use modern technology in controlling baggage and passenger inspection, and freight and mail in accordance with international standards related to mainland, sea and air border procedures.
- **Diploma in Auditing and Security Discipline:** This program is designed to develop students' efficiency in the field of inspection and discipline, and their ability to deal with internal and external audience effectively. Graduates will acquire the ability to apply the procedures of controlling and auditing the functional framework in line with relevant security policies. In addition, students

will develop the ability to use modern techniques and technology in the effective preparation of audit reports and inspections within the security framework.

### Program Descriptions

The programs are designed to develop the core knowledge, skills, and competencies required to work as law enforcement officers. Students are provided with hands-on training as staff officers in relevant field departments. Each Diploma is aligned to the Qualifications Framework of the Emirates.

### 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 a law enforcement officer.
- Communicate effectively and concisely relevant criminal law procedures following best security professional practice.
- Apply operational rules and solve problems encountered in the role of law enforcement officer while observing the code of conduct and values.
- Use technology systems effectively to support operational security tasks.

### Completion Requirements

Course Credits

Diploma in Criminal Justice	
Diploma in Law Enforcement	
Diploma in Auditing and Discipline Security	
Students must successfully complete a minimum of 63 semester credits including:	
Security Studies Core Courses:	15
Electives:	9
Diploma Major Core courses:	12
General Studies:	21
Work Experience:	6
Diploma in Border Security Operation	
Students must successfully complete a minimum of 66 semester credits including:	
Security Studies Core Courses:	15
Electives:	6
Diploma Major Core courses:	18
Work Experience:	6
General Studies:	21

Course Credits

**General Studies**

**Required Credits: 21**

English, Arabic or other Languages	6
Humanities or Arts	6
Information Technology or Mathematics	3
The Natural Sciences	3
The Social or Behavioral Sciences	3

**Security Studies Core Courses**

**Required Credits: 21 (Work Experience included)**

MAS 1003	Introduction to Legal Sciences Studies	3
PST 1003	Criminal Law	3
PST 1023	Criminal Procedure	3
PST 1033	Infantry Police and Practice Applications	0
PST 1043	Security Organization and Administration	3
PST 1103	Weapon Science and Practice	0
PST 1133	Concepts and Principles of Traffic	3
PST 2009	Work Experience	6

**Diploma in Criminal justice  
Core Courses**

**Required Credits: 12**

PCJ 2003	Law and Procedure of Evidence	3
PCJ 2033	Crime Detection	3
PCJ 2043	Community Policing	3
PCJ 2053	Special Criminal Legislations	3

**Diploma in Criminal justice  
Electives**

**Required Credits: 9**

BSO 2103	Residence and Foreigners Affairs Procedures	3
PLE 2013	Management Punitive and Correctional Establishments	3
PLE 2053	Introduction to Criminology	3
PST 1153	Basics and Principles of Security Operations	3

**Diploma in Law Enforcement  
Core Courses**

**Required Credits: 12**

PLE 2013	Management Punitive and Correctional Establishments	3
PLE 2053	Introduction to Criminology	3
PLE 2113	Security Applications and System Practice	3
PST 1153	Basics and Principles of Security Operations	3

Course Credits

**Diploma in Law Enforcement  
Electives**

**Required Credits: 9**

BSO 2103	Residence and Foreigners Affairs Procedures	3
BSO 2143	Basic Skills of Customs Operations	3
BSO 2123	Basic Security of Mainland and Naval Ports	3
PCJ 2003	Law and Procedure of Evidence	3
PCJ 2033	Crime Detection	3
PCJ 2043	Community Policing	3
PCJ 2053	Special Criminal Legislations	3
PST 2023	Public Relations and Communication Skills	3

**Diploma in Border Security Operations  
Core Courses**

**Required Credits: 18**

BSO 2003	Basics of Civilian Aviation Security	3
BSO 2013	Security of Aviation and Aircraft	3
BSO 2023	UAE Aviation Law and International Treaties	3
BSO 2103	Residence and Foreigners Affairs Procedures	3
BSO 2123	Basic Security of Mainland and Naval Ports	3
BSO 2143	Basic Skills of Customs Operations	3

**Diploma in Border Security Operations  
Electives**

**Required Credits: 6**

PCJ 2003	Law and Procedure of Evidence	3
PCJ 2033	Crime Detection	3
PCJ 2043	Community Policing	3
PCJ 2053	Special Criminal Legislation	3
PLE 2013	Management Punitive and Correctional Establishments	3
PLE 2053	Introduction to Criminology	3
PST 1153	Basics and Principles of Security Operations	3

**Diploma in Auditing and Discipline Security  
Core Courses**

**Required Credits: 12**

PAD 2003	Basic in Police Audit and Discipline	3
PAD 2013	Audit Inspection and Investigation	3
PAD 2103	Operational Auditing	3
PST 2013	Security Awareness	3

**Diploma in Auditing and Security Discipline  
Electives**

**Required Credits: 9**

BSO 2103	Residence and Foreigners Affairs Procedures	3
PCJ 2003	Law and Procedure of Evidence	3
PCJ 2033	Crime Detection	3
PCJ 2043	Community Policing	3
PCJ 2053	Special Criminal Legislation	3
PST 1153	Basics and Principles of Security Operations	3



# Recommended Sequence of Study

## Diploma in Criminal Justice

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
<b>Year 1 Semester 1</b>			<b>Year 1 Semester 2</b>		
<b>Total Credits: 15</b>			<b>Total Credits: 15</b>		
AES 1003	Emirati Studies	3	ICT 2013	Computational Thinking and Coding	3
AES 1013	Arabic Communications I	3	LSC 1103	Academic Reading and Writing I	3
LSS 1003	Life and Study Skills	3	PST 1003	Criminal Law	3
MAS 1003	Introduction to Legal Sciences Studies	3	PST 1033	Infantry Police and Practice	0
PST 1043	Security Organization and Administration	3	PST 1163	Islamic Studies	3
PST 1103	Weapon Science and Practice	0	PST 1133	Concepts and Principles of Traffic	3
<b>Year 2 Semester 1</b>			<b>Year 2 Semester 2</b>		
<b>Total Credits: 15</b>			<b>Total Credits: 18</b>		
PCJ 2033	Crime Detection	3	LSN 1113	Introduction to Sustainability	3
PCJ 2053	Special Criminal Legislations	3	PCJ 2003	Law and Procedure of Evidence	3
PST 1023	Criminal Procedures	3	PCJ 2043	Community Policing	3
PST XXXX	Elective Course	3	PST 2009	Work Experience	6
PST XXXX	Elective Course	3	PST XXXX	Elective Course	3

## Diploma in Law Enforcement

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
<b>Year 1 Semester 1</b>			<b>Year 1 Semester 2</b>		
<b>Total Credits: 15</b>			<b>Total Credits: 15</b>		
AES 1003	Emirati Studies	3	ICT 2013	Computational Thinking and Coding	3
AES 1013	Arabic Communications I	3	PST 1003	Criminal Law	3
LSS 1003	Life and Study Skills	3	PST 1033	Infantry Police and Practice	0
MAS 1003	Introduction to Legal Science Studies	3	PST 1163	Islamic Studies	3
PST 1043	Security Organization and Administration	3	PST 1133	Concepts and Principles of Traffic	3
PST 1103	Weapon Science and Practice	0	PST XXXX	Elective Course	3
<b>Year 2 Semester 1</b>			<b>Year 2 Semester 2</b>		
<b>Total Credits: 15</b>			<b>Total Credits: 18</b>		
PLE 2013	Management Punitive and Correctional Establishments	3	LSC 1103	Academic Reading and Writing I	3
PLE 2053	Introduction to Criminology	3	LSN 1113	Introduction to Sustainability	3
PLE 2113	Security Applications and System Practice	3	PST 1153	Basic and Principles of Security Operations	3
PST 1023	Criminal Procedures	3	PST 2009	Work Experience	6
PST XXXX	Elective Course	3	PST XXXX	Elective Course	3

### Diploma in Border Security Operation

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
<b>Year 1 Semester 1</b>			<b>Year 1 Semester 2</b>		
<b>Total Credits: 15</b>			<b>Total Credits: 15</b>		
AES 1003	Emirati Studies	3	ICT 2013	Computational Thinking and Coding	3
AES 1013	Arabic Communications I	3	LSC 1103	Academic Reading and Writing I	3
LSS 1003	Life and Study Skills	3	PST 1003	Criminal Law	3
MAS 1003	Introduction to Legal Science Studies	3	PST 1103	Weapon Science and Practice	0
PST 1033	Infantry Police and Practice	0	PST 1133	Concepts and Principles of Traffic	3
PST 1043	Security Organization and Administration	3	PST 1163	Islamic Studies	3
<b>Year 2 Semester 1</b>			<b>Year 2 Semester 2</b>		
<b>Total Credits: 18</b>			<b>Total Credits: 18</b>		
BSO 2003	Basics of Civilian Aviation Security	3	BSO 2103	Residence and Foreigners Affairs Procedures	3
BSO 2013	Security of Aviation and Aircraft	3	BSO 2123	Basic Security of Mainland and Naval Ports	3
BSO 2023	UAE Aviation Law And International Treaties	3	BSO 2143	Basic Skills of Customs Operations	3
LSN 1113	Introduction to Sustainability	3	PST 2009	Work Experience	6
PST 1023	Criminal Procedures	3	PST XXXX	Elective Course	3
PST XXXX	Elective Course	3			

### Diploma in Auditing and Security Discipline

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
<b>Year 1 Semester 1</b>			<b>Year 1 Semester 2</b>		
<b>Total Credits: 15</b>			<b>Total Credits: 15</b>		
AES 1003	Emirati Studies	3	ICT 2013	Computational Thinking and Coding	3
AES 1013	Arabic Communications I	3	LSC 1103	Academic Reading and Writing I	3
LSS 1003	Life and Study Skills	3	PST 1003	Criminal Law	3
MAS 1003	Introduction to Legal Science Studies	3	PST 1163	Islamic Studies	3
PST 1033	Infantry Police and Practice	0	PST 1103	Weapon Science and Practice	0
PST 1043	Security Organization and Administration	3	PST 1133	Concepts and Principles of Traffic	3
<b>Year 2 Semester 1</b>			<b>Year 2 Semester 2</b>		
<b>Total Credits: 15</b>			<b>Total Credits:18</b>		
PAD 2003	Basics of Police Audit and Discipline	3	LSN 1113	Introduction to Sustainability	3
PST 1023	Criminal Procedures	3	PAD 2013	Audit Inspection and Investigation	3
PST 2013	Security Awareness	3	PAD 2103	Operational Auditing	3
PST XXXX	Elective Course	3	PST 2009	Work Experience	6
PST XXXX	Elective Course	3	PST XXXX	Elective Course	3

## Academic Staff

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# Bachelor of Naval Science

## Admission to program

This program is only open to Officer Cadets already employed by the UAE Defense 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, Emirati 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 Naval College's 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. Recognize 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  
2018 Program Matrix**

		Course Credits
<b>General Studies</b>		
<b>Total Credits: 33</b>		
English, Arabic or other Languages		12
Humanities or Art		3
Information Technology or Mathematics		6
The Natural Sciences		3
The Social or Behavioral Sciences		9
<b>Naval Science and Engineering Core Courses</b>		
<b>Total Credits: 30</b>		
MTH 1203	Calculus 1	3
NSE 1003	Fluid Mechanics for Naval Applications	3
NSE 1013	Damage Control	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 2033	Principles of Naval Architecture	3
NSE 2043	Ship Propulsion I	3
NSE 2103	Ship Propulsion II	3
NSE 2203	Electronics for Naval Applications	3
		Course Credits
<b>Naval Professional Core Courses – Diploma Exit</b>		
<b>Total Credits: 31</b>		
NAV 1104	Navigation I	4
NAV 2004	Navigation II	4
NAV 2104	Navigation III	4
NPS 2004	Seamanship I	4
NPS 2013	Naval Communications	3
NPS 2103	Naval Leadership and Management	3
NPS 2113	Seamanship II	3
NWR 1103	Naval Warfare and Operations I	3
NWR 2103	Naval Warfare and Operations II	3
<b>Midshipman Sea Training Courses</b>		
<b>Total Credits: 15</b>		
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

**Continuation to Bachelor Following Diploma Exit  
2018 Program Matrix**

		Course Credits
<b>Naval Professional Core Courses - Naval Science Bachelor Degree</b>		
<b>Total Credits: 24</b>		
NAV 4002	OOW Consolidation and Bridge Management	2
NAV 4014	Ocean Navigation	4
NAV 4023	Coastal Navigation	3
NAV 4033	Restricted Waters Navigation	3
NPS 4002	Bridge & Ship Systems	2
NPS 4123	Communications & Intelligence	3
NPS 4133	Capstone Project	3
NWR 4004	Bridge Warfare and Tactical Maneuvering	4
<b>Completion Requirement – Bachelor’s Degree</b>		
<b>Students must successfully complete a minimum of 133 semester credits including</b>		
General Studies		33
Naval Science and Engineering Core Courses		30
Naval Professional Core Courses		55
Midshipman Sea Training Courses		15
<b>Total</b>		<b>133</b>
<b>Completion Requirement – Diploma Exit</b>		
<b>Students must successfully complete a minimum of 103 semester credits including</b>		
General Studies		27
Naval Science and Engineering Core Courses		30
Naval Professional Core Courses		31
Midshipman Sea Training Courses		15
<b>Total Credits</b>		<b>103</b>

# Recommended Sequence of Study

## Bachelor in Naval Science

Course Code	Course Title	Course Credits	Course Code	Course Title	Course Credits
<b>Year 1 Semester I</b>			<b>Year 1 Semester II</b>		
<b>Total Credits: 9</b>			<b>Total Credits: 26</b>		
AES 1013	Arabic Communications I	3	LSC 1103	Academic Reading and Writing I	3
LSM 1103	Technical Mathematics	3	LSC 1503	Academic Spoken Communication	3
LSS 1003	Life and Study Skills	3	MTH 1203	Calculus 1	3
NPS 2004	Seamanship I	CC	NAV 1104	Navigation I	4
			NPS 2004	Seamanship I	4
			NSE 2003	Ship Electrical Technology	3
			NWR 1103	Naval Warfare and Operations I	3
			PHY 1103	Physics I	3
<b>Year 2 Semester III</b>			<b>Year 2 Semester IV</b>		
<b>Total Credits: 22</b>			<b>Total Credits: 31</b>		
AES 1003	Emirati Studies	3	ICT 2013	Computational Thinking and Coding	3
NAV 2004	Navigation II	4	LSS 1123	Basic Methods of Scientific Research and Development	3
NPS 2013	Naval Communications	3	NAV 2104	Navigation III	4
NPS 2113	Seamanship II	CC	NPS 2103	Naval Leadership and Management	3
NSE 1003	Fluid Mechanics for Naval Applications	3	NPS 2113	Seamanship II	3
NSE 1013	Damage Control	3	NSE 2013	Principles of Naval Sensors	3
NSE 2043	Ship Propulsion I	3	NSE 2023	Maritime Environment and Law of the Sea	3
NSE 2203	Electronics for Naval Applications	3	NSE 2033	Principles of Naval Architecture	3
			NSE 2103	Ship Propulsion II	3
			NWR 2103	Naval Warfare and Operations II	3
<b>Year 3 Semester V</b>					
<b>At Sea - Midshipman Training</b>					
<b>Total Credits: 15</b>					
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			
<b>Diploma exit after Semester 5</b>					
<b>Year 4 Semester VI</b>			<b>Year 4 Semester VII</b>		
<b>Total Credits: 16</b>			<b>Total Credits: 14</b>		
NAV 4014	Ocean Navigation	4	AES 3003	Professional Arabic	3
NAV 4023	Coastal Navigation	3	LSS 2403	Innovation and Entrepreneurship	3
NAV 4033	Restricted Waters Navigation	3	NAV 4002	Officer of Watch Consolidation and Bridge Management	2
NPS 4002	Bridge and Ship Systems	2	NPS 4123	Communications and Intelligence	3
NWR 4004	Bridge Warfare and Tactical Maneuvering	4	NPS 4133	Capstone Project	3

CC stands for Continuing Course

## Academic Staff

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