Overview

If you are commencing in Semester 2 2020 under the Government's Higher Education Relief Package due to COVID-19, please refer to the advice in the Additional Information section below.

The Graduate Certificate in Space Operations is a multidisciplinary program awarded by the School of Engineering and Information Technology. It is designed for scholars and professionals with appropriate undergraduate qualifications in management, humanities, and engineering, or those with extensive relevant professional experience. The program develops awareness of the technical, strategic, and economic drivers required to conceive, design, and operate spacecraft within the rapidly changing global space sector. The program analyses the intersection between the technical and strategic forces that influence operational decisions within the space domain and explores the changing landscape for the utilization of space for military, civilian, and commercial applications.

The Graduate Certificate in Space Operations aims to allow students to develop a high level of understanding of the issues associated with the planning, operation and acquisition of space systems. A specific emphasis is placed on examining opportunities for Australia to grow its strategic space capability while responsibly operating within the space domain to ensure the sustainment of the space environment into the future.
Faculty
UNSW Canberra at ADFA

Campus
Canberra

Study Level
Postgraduate

Typical duration
0.5 Years

Delivery Mode
Fully online

Intake Period
Semester 2

Academic Calendar
UNSW Canberra Calendar

Minimum Units of Credit
24

Award type
Graduate Certificate

Award(s)
Graduate Certificate in Space Operations -
GradCertSpaceOps
Learning Outcomes

1. Communicate effectively to a range of audiences and be capable of independent and collaborative inquiry, working effectively with others.

2. Demonstrate interdisciplinary knowledge and skills and an ability to apply those in a range of space operations contexts.

3. Demonstrate advanced critical thinking and problem solving skills, particularly as applied to the knowledge areas of space operations.

4. Demonstrate an awareness of international issues as they relate to space operations.

Graduate Capabilities:

For more information on Graduate Capabilities, please click on this link.
**Program Structure**

Students must complete 24 UOC as a standalone program.

**Core Courses**

Students must take at least 12 UOC, up to a maximum of 24 UOC of the following courses.

- **ZEIT8007**  |  6 UOC  
  Space Operations

- **ZEIT8011**  |  6 UOC  
  Space Systems Technology

- **ZEIT8012**  |  6 UOC  
  Space Systems Engineering Management

- **ZHSS8504**  |  6 UOC  
  Space Conflict and Competition

**Prescribed Electives**

Students can take up to a maximum of 12 UOC of the following courses.

- **ZEIT8009**  |  6 UOC  
  Global Navigation Satellite Systems (GNSS)

- **ZEIT8018**  |  6 UOC  
  Cyber Resilience: Management Governance and Acquisition

- **ZEIT8032**  |  6 UOC  
  Information Assurance Principles

- **ZEIT8033**  |  6 UOC  
  Critical Infrastructure Security Policy and Governance
ZEIT8219 | 6 UOC
Satellite Communications

ZEIT8221 | 6 UOC
Spaceborne Imaging Technology

ZEIT8230 | 6 UOC
Requirements Practice

ZEIT8231 | 6 UOC
Test and Evaluation

ZEIT8303 | 6 UOC
Project Management Body of Knowledge

ZEIT8403 | 6 UOC
Capability Option Analysis

ZHSS8403 | 6 UOC
Global Security

ZHSS8410 | 6 UOC
Australian Defence Policy: Concepts and Challenges

ZHSS8435 | 6 UOC
Contemporary Strategy

ZHSS8463 | 6 UOC
The Politics of International Law

ZHSS8467 | 6 UOC
Military Game Changers in 21st Century Warfare

ZPEM8208 | 6 UOC
Human Factors and the Technological Interface
Enrolment Disclaimer

Unless advised otherwise by your program authority, you should follow the rules for the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.
Related Programs

Master of Space Engineering - **MSpaceEng**

**8622 Space Engineering**

Faculty: UNSW Canberra at ADFA
Campus: Canberra
Units of Credit: 48
Typical Duration: 1 Years

Read More

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Master of Space Operations - **MSpaceOps**

**8624 Space Operations**

Faculty: UNSW Canberra at ADFA
Campus: Canberra
Units of Credit: 48
Typical Duration: 1 Years

Read More
Admission Requirements

Entry Requirements

To gain entry into a Graduate Certificate of Space Operations (7353), an applicant must meet one of the following entry requirements:

1. Completion of a Bachelor degree in a related discipline* from a recognised institution; or

2. Completion of a Bachelor degree in a non-related discipline; and completion of at least three years relevant full-time professional experience; or

5. Evidence of other qualifications and professional experience to be assessed as acceptable grounds for admission into the program by the relevant Program Authority. In certain circumstances, students may be required to undertake and successfully complete a relevant non-award course as a condition for admission into the program. This non-award course may also be credited towards the program upon admission.

*Related Discipline/s: Management, Engineering, Humanities.

For more information about admission requirements for various UNSW programs, visit the following website(s):

Domestic Students

International Student
Additional Information

Domestic students commencing in Semester 2 2020 under the Government's COVID-19 Higher Education Relief Package can enrol in a maximum of 4 courses (24 units of credit) in Semester 2 2020 at the discounted fee rates.

Further information about the COVID-19 Higher Education Relief Package is at https://student.unsw.edu.au/herp

Students should enrol in the following courses available online:

Core courses (total of 12 units of credit): ZEIT8011 Space Systems Technology + ZHSS8504 Space Conflict and Competition

Program Fees

At UNSW fees are generally charged at course level and therefore dependent upon individual enrolment and other factors such as student's residency status. For generic information on fees and additional expenses of UNSW programs, click on one of the following:

- Domestic Students
- Commonwealth Supported Students
- International Students

Additional Expenses

Computer and internet access as well as texts.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions