



UNSW Course Outline

AVIA5007 Airport Operations Management - 2024

Published on the 04 Sep 2024

General Course Information

Course Code : AVIA5007

Year : 2024

Term : Term 3

Teaching Period : T3

Is a multi-term course? : No

Faculty : Faculty of Science

Academic Unit : School of Aviation

Delivery Mode : Online

Delivery Format : Standard

Delivery Location : Kensington

Campus : Sydney

Study Level : Postgraduate

Units of Credit : 6

Useful Links

[Handbook Class Timetable](#)

Course Details & Outcomes

Course Description

Airport Operations Management is a fully online, distance education course that provides a broad understanding of the key elements of Airport Operations so that regardless of the student's specific personal involvement in aviation, they can take a realistic view of airport

operations management, financing, regulation, risk mitigation and community impacts. This course covers day-to-day operational issues such as managing annual budgets, fees (landing, passenger, shops, car parking, etc.) determination methods, emergency planning in all aspects, relationships with airlines, short term political issues management, slot management-peak time issues and managing concessions. It also explores other airport business opportunities, aircraft parking control, relationship with other industry bodies, and general administrative tasks at airports such as roads, signs, flight information, electricity and water.

Course Aims

The aim of this course is to provide students with an insight into the complexities and wide-ranging nature of the issues confronting an airport operator. The course aims to support students with developing an appreciation that the safe and efficient operation of airports underpins the safety and efficiency of airline and other aircraft operations, since all journeys by air begin and end on the ground. Regardless of the industry sector with which students are involved, the course aims to provide an understanding of what is involved in the management of airport operations to equip students with a broader, more balanced and flexible approach to the job they perform.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Discuss the primary strategies for assessing and ensuring an airport operator provides a safe environment for aircraft operations, with reference to relevant airport ownership models and management structures, airport financial arrangements and the legislative framework.
CLO2 : Explain the environmental impact of airport operations on the community, and the purpose of airport emergency planning.
CLO3 : Conduct independent research and apply analytical skills for finding solutions to complex and difficult issues within diverse airport contexts.
CLO4 : Present clear and concise solutions in written communication form for addressing complex and difficult airport operations challenges.
CLO5 : Apply knowledge gained in other disciplines or life experience to managing airport operations issues/problems.
CLO6 : Effectively apply key skills needed for effectively conducting day-to-day duties in an airport operations management role.

Course Learning Outcomes	Assessment Item
CLO1 : Discuss the primary strategies for assessing and ensuring an airport operator provides a safe environment for aircraft operations, with reference to relevant airport ownership models and management structures, airport financial arrangements and the legislative framework.	<ul style="list-style-type: none">• Research Assignment 1• Research Assignment 3
CLO2 : Explain the environmental impact of airport operations on the community, and the purpose of airport emergency planning.	<ul style="list-style-type: none">• Research Assignment 2• Research Assignment 1• Research Assignment 3
CLO3 : Conduct independent research and apply analytical skills for finding solutions to complex and difficult issues within diverse airport contexts.	<ul style="list-style-type: none">• Research Assignment 2• Research Assignment 1• Research Assignment 3
CLO4 : Present clear and concise solutions in written communication form for addressing complex and difficult airport operations challenges.	<ul style="list-style-type: none">• Research Assignment 2• Research Assignment 1• Research Assignment 3
CLO5 : Apply knowledge gained in other disciplines or life experience to managing airport operations issues/problems.	<ul style="list-style-type: none">• Research Assignment 2• Research Assignment 1• Research Assignment 3
CLO6 : Effectively apply key skills needed for effectively conducting day-to-day duties in an airport operations management role.	<ul style="list-style-type: none">• Research Assignment 2• Research Assignment 1• Research Assignment 3

Learning and Teaching Technologies

Moodle - Learning Management System

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Research Assignment 1 Assessment Format: Individual	20%	Start Date: Not Applicable Due Date: Week 7 : 25/10/2024 11:59PM
Research Assignment 2 Assessment Format: Individual	30%	Start Date: Not Applicable Due Date: Week 10 : 15/11/2024 11:59PM
Research Assignment 3 Assessment Format: Individual	50%	Start Date: Not Applicable Due Date: 29/11/2024 11:59PM

Assessment Details

Research Assignment 1

Assessment Overview

Research Assignment 1 requires you to prepare a maximum 2000-word report based on a scenario where you adopt the role of an airport operations manager.

As part of the report, you are required to respond to a consultancy report relating to management of airside operations and identified concerns. You will be assessed on your ability to communicate effectively and provide a reasoned and legitimate written argument.

The assignment is due in Week 7. Details of the assignment including format instructions will be released in Week 1 of the Term.

Marks for this assignment and detailed feedback will be provided within 10 working days after submission.

Course Learning Outcomes

- CLO1 : Discuss the primary strategies for assessing and ensuring an airport operator provides a safe environment for aircraft operations, with reference to relevant airport ownership models and management structures, airport financial arrangements and the legislative framework.
- CLO2 : Explain the environmental impact of airport operations on the community, and the purpose of airport emergency planning.
- CLO3 : Conduct independent research and apply analytical skills for finding solutions to complex and difficult issues within diverse airport contexts.

- CLO4 : Present clear and concise solutions in written communication form for addressing complex and difficult airport operations challenges.
- CLO5 : Apply knowledge gained in other disciplines or life experience to managing airport operations issues/problems.
- CLO6 : Effectively apply key skills needed for effectively conducting day-to-day duties in an airport operations management role.

Assessment Length

2,000 word report

Assessment information

Details of the research assignments will be provided in the Moodle.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Generative AI Permission Level

Simple Editing Assistance

In completing this assessment, you are permitted to use standard editing and referencing functions in the software you use to complete your assessment. These functions are described below. You must not use any functions that generate or paraphrase passages of text or other media, whether based on your own work or not.

If your Convenor has concerns that your submission contains passages of AI-generated text or media, you may be asked to account for your work. If you are unable to satisfactorily demonstrate your understanding of your submission you may be referred to UNSW Conduct & Integrity Office for investigation for academic misconduct and possible penalties.

For more information on Generative AI and permitted use please see [here](#).

Research Assignment 2

Assessment Overview

Research Assignment 2 requires you to prepare a maximum 2000-word induction based on a scenario where you adopt the role of an airport operations manager. The assignment is due in Week 10.

For your submission, you will have the option to prepare the induction as a written report, or a PowerPoint presentation with speaking notes. However, you are required to adhere to the instructions provided for the respective format. Details of the assignment including format instructions will be released in Week 1 of the Term.

Feedback is available within 10 days following submission.

Course Learning Outcomes

- CLO2 : Explain the environmental impact of airport operations on the community, and the purpose of airport emergency planning.
- CLO3 : Conduct independent research and apply analytical skills for finding solutions to complex and difficult issues within diverse airport contexts.
- CLO4 : Present clear and concise solutions in written communication form for addressing complex and difficult airport operations challenges.
- CLO5 : Apply knowledge gained in other disciplines or life experience to managing airport operations issues/problems.
- CLO6 : Effectively apply key skills needed for effectively conducting day-to-day duties in an airport operations management role.

Assessment Length

maximum 2000-word

Assessment information

Details of the research assignments will be provided in the Moodle

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Generative AI Permission Level

Simple Editing Assistance

In completing this assessment, you are permitted to use standard editing and referencing functions in the software you use to complete your assessment. These functions are described below. You must not use any functions that generate or paraphrase passages of text or other media, whether based on your own work or not.

If your Convenor has concerns that your submission contains passages of AI-generated text or media, you may be asked to account for your work. If you are unable to satisfactorily demonstrate your understanding of your submission you may be referred to UNSW Conduct & Integrity Office for investigation for academic misconduct and possible penalties.

For more information on Generative AI and permitted use please see [here](#).

Research Assignment 3

Assessment Overview

For Assignment 3, you will be required to answer a set of multiple questions. For each question, you will also need to write a paragraph explaining why this option is the most appropriate and

also why each of the other options are either not correct or fit less well. Your response for each question should be a maximum of 200 words.

This assessment will be released from the start of the official UNSW Examination Week. You are to submit the answers by the end of the official UNSW examination period as one combined submission file.

Feedback is available through inquiry with the course convenor.

Course Learning Outcomes

- CLO1 : Discuss the primary strategies for assessing and ensuring an airport operator provides a safe environment for aircraft operations, with reference to relevant airport ownership models and management structures, airport financial arrangements and the legislative framework.
- CLO2 : Explain the environmental impact of airport operations on the community, and the purpose of airport emergency planning.
- CLO3 : Conduct independent research and apply analytical skills for finding solutions to complex and difficult issues within diverse airport contexts.
- CLO4 : Present clear and concise solutions in written communication form for addressing complex and difficult airport operations challenges.
- CLO5 : Apply knowledge gained in other disciplines or life experience to managing airport operations issues/problems.
- CLO6 : Effectively apply key skills needed for effectively conducting day-to-day duties in an airport operations management role.

Assessment Length

maximum of 2000 words each question

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Generative AI Permission Level

Simple Editing Assistance

In completing this assessment, you are permitted to use standard editing and referencing functions in the software you use to complete your assessment. These functions are described below. You must not use any functions that generate or paraphrase passages of text or other media, whether based on your own work or not.

If your Convenor has concerns that your submission contains passages of AI-generated text or media, you may be asked to account for your work. If you are unable to satisfactorily demonstrate your understanding of your submission you may be referred to UNSW Conduct &

Integrity Office for investigation for academic misconduct and possible penalties.

For more information on Generative AI and permitted use please see [here](#).

General Assessment Information

UNSW Aviation's decision for Short Extension Policy

The School of Aviation has carefully reviewed its range of assignments and projects to determine their suitability for automatic short extensions as set out by the UNSW Short Extension Policy. After careful consideration of our course offerings and our current structure, we have determined that our current deadline structures already accommodate the possibility of unexpected circumstances that may lead students to require additional days for submission. **Consequently, the School of Aviation has decided to not adopt the Short Extension provision for all its courses and has reassured that flexibility is integrated into our assessment deadlines.** The decision is subject to revision in response to the introduction of new course offerings. Students may still apply for Special Consideration via the usual procedures.

The criteria for assessment of all written work will be:

1. overall understanding of the assignment requirement, demonstrated in terms of material selected for inclusion in and development and structure of the student response;
2. appropriate weight and balance given to the components of the assignment;
3. evidence of understanding of the concepts and problems being studied or reviewed;
4. evidence of relevant independent research;
5. ability to analyse and synthesise material;
6. ability to apply solutions in the aviation field from the student's own areas of experience;
7. ability to write in a concise and simple manner while solving complex and difficult issues
8. appropriate style of response utilised eg – report, briefing paper, paper for presentation, a critique etc;

9. presentation of the response allows the reader easy and clear access to the material presented and an understanding of the structure of the response;
10. appropriate referencing of researched material.

In general terms the assignments will be marked on:

- coverage - criteria 1, 2, 3 and 4 (45%);
- analytical skills and problem solving - criteria 5 and 6 (45%); and
- presentation – criteria 7, 8, 9, 10 (10%).

Grading Basis

Standard

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 9 September - 15 September	Topic	Unit 1 : An Introduction to Airport
Week 2 : 16 September - 22 September	Topic	Unit 2 : Airport Safety Regulation
Week 3 : 23 September - 29 September	Topic	Unit 3 : Airport Safety Management Systems
Week 4 : 30 September - 6 October	Topic	Unit 4 : Aerodrome Manual (Airport Emergency Plan)
Week 5 : 7 October - 13 October	Topic	Unit 5 : Airside Safety Management
Week 6 : 14 October - 20 October	Topic	Unit 6 : Airspace Protection
Week 7 : 21 October - 27 October	Topic	Unit 7 : Airport Environmental Management
Week 8 : 28 October - 3 November	Topic	Unit 8 : Aerodrome Works
Week 9 : 4 November - 10 November	Topic	Unit 9 : Apron Management
Week 10 : 11 November - 17 November	Topic	Unit 10 : Terminal and Landside Management

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

General Schedule Information

UNSW Aviation's decision to not release Lecture Recordings:

The School of Aviation prides itself on offering education that supports students in their personalised learning journey. This involves providing opportunities for students to engage with academics and key aviation experts to identify and address learning gaps, develop core skills and knowledge, and foster an environment of collaboration and meaningful discussion with the

UNSW Aviation community. To support this vision, UNSW Aviation has decided to require students to attend all synchronous lectures (in-person or online) and not release class recordings to the student cohort. If students cannot attend a class and require learning support due to unforeseen circumstances, they should contact their Course Coordinator or Program Coordinator to discuss options for support and making up for missed class time.

Course Resources

Recommended Resources

Recommended Texts

Ashford, N., et al, 2013, Airport Operations, 3rd Ed, McGraw Hill, New York.

Ashford, N. et al 2011, Airport Engineering – Planning, Design and Development of 21st-Century Airports, 4th edn, John Wiley & Sons, Hoboken, New Jersey.

Bartsch, R.I., 2012, Aviation Law in Australia, 4th Ed, Thomson Reuters Australia, Sydney

De Neufville R.& Odoni A. et al, 2013, Airport Systems, Planning, Design and Management, McGraw, New York.

Doganis, R., 2005, The Airport Business, 2nd Ed, Routledge, London and New York.

Forsyth, Peter (ed), 2004, The Economic Regulation of Airports, Ashgate, London. Graham, A., 2014, Managing Airports, 4th Ed, Routledge, London.

Kazda, A. & Caves, R.E. 2015, Airport Design and Operation, 3rd Ed, Emerald Group Publishing Limited, Bingley.

Young, S. & Wells, A., 2011, Airport Planning & Management, 6th Ed, McGraw Hill, New York.

Wensveen, J., 2015, Air Transportation A Management Perspective, 8th Ed, Taylor & Francis, London, United Kingdom

Aviation Internet Sites

Airservices Australia <https://www.airservicesaustralia.com/>

Aviation Statistics <https://www.bitre.gov.au/statistics/aviation>

Bureau of Infrastructure, Transport & Regional Economics (BITRE) <https://bitre.gov.au/>

Department of Infrastructure and Regional Development <https://infrastructure.gov.au/>

Australian Transport Safety Bureau <http://www.atsb.gov.au/>

Civil Aviation Safety Authority <https://www.casa.gov.au/>

Aviation and Maritime Security Division <https://www.homeaffairs.gov.au/about-us/our-portfolios/transport-security>

Australian Aviation Acts and Regulations <https://www.legislation.gov.au/>

International Civil Aviation Organisation (ICAO) <https://www.icao.int/Pages/default.aspx>

International Air Transport Association (IATA) <http://www.iata.org/>

Airports Council International (ACI) <http://www.aci.aero/>

Federal Aviation Administration <https://www.faa.gov/>

Western Sydney Airport <https://westernsydney.com.au/>

Sydney Airport <https://www.sydneyairport.com.au/>

Brisbane Airport <http://www.bne.com.au/>

Course Evaluation and Development

The myExperience Survey aims to boost student feedback which creates a culture of continuous improvement by identifying, responding to, and acting on student feedback.

The course survey will open towards the end of Term. Students are encouraged to participate in the survey via Moodle, myUNSW, or through the direct myExperience link.

Please provide constructive feedback and focus on your learning experience in relation to the course material. While the survey is confidential, it is not anonymous. Comments that breach the Student Code of Conduct, that are hurtful, racist, sexist or ill natured, may lead to disciplinary action.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Gregory Hay				via email and/or Moodle forums	No	Yes

Other Useful Information

Academic Information

Upon your enrolment at UNSW, you share responsibility with us for maintaining a safe, harmonious and tolerant University environment.

You are required to:

- Comply with the University's conditions of enrolment.
- Act responsibly, ethically, safely and with integrity.
- Observe standards of equity and respect in dealing with every member of the UNSW community.
- Engage in lawful behaviour.
- Use and care for University resources in a responsible and appropriate manner.
- Maintain the University's reputation and good standing.

For more information, visit the [UNSW Student Code of Conduct Website](#).

Academic Honesty and Plagiarism

Referencing is a way of acknowledging the sources of information that you use to research your assignments. You need to provide a reference whenever you draw on someone else's words, ideas or research. Not referencing other people's work can constitute plagiarism.

Further information about referencing styles can be located at <https://student.unsw.edu.au/referencing>

Academic integrity is fundamental to success at university. Academic integrity can be defined as a commitment to six fundamental values in academic pursuits: honesty, trust, fairness, respect, responsibility and courage. At UNSW, this means that your work must be your own, and others' ideas should be appropriately acknowledged. If you don't follow these rules, plagiarism may be detected in your work.

Further information about academic integrity, plagiarism and the use of AI in assessments can

be located at:

- The [Current Students site](#),
- The [ELISE training site](#), and
- The [Use of AI for assessments](#) site.

The Student Conduct and Integrity Unit provides further resources to assist you to understand your conduct obligations as a student: <https://student.unsw.edu.au/conduct>

Submission of Assessment Tasks

Penalty for Late Submissions

UNSW has a standard late submission penalty of:

- 5% per day,
- for all assessments where a penalty applies,
- capped at five days (120 hours) from the assessment deadline, after which a student cannot submit an assessment, and
- no permitted variation.

Any variations to the above will be explicitly stated in the Course Outline for a given course or assessment task.

Students are expected to manage their time to meet deadlines and to request extensions as early as possible before the deadline.

Special Consideration

If circumstances prevent you from attending/completing an assessment task, you must officially apply for special consideration, usually within 3 days of the sitting date/due date. You can apply by logging onto myUNSW and following the link in the My Student Profile Tab. Medical documentation or other documentation explaining your absence must be submitted with your application. Once your application has been assessed, you will be contacted via your student email address to be advised of the official outcome and any actions that need to be taken from there. For more information about special consideration, please visit: <https://student.unsw.edu.au/special-consideration>

Important note: UNSW has a “fit to sit/submit” rule, which means that if you sit an exam or submit a piece of assessment, you are declaring yourself fit to do so and cannot later apply for Special Consideration. This is to ensure that if you feel unwell or are faced with significant circumstances beyond your control that affect your ability to study, you do not sit an examination

or submit an assessment that does not reflect your best performance. Instead, you should apply for Special Consideration as soon as you realise you are not well enough or are otherwise unable to sit or submit an assessment.

Faculty-specific Information

Additional support for students

- [The Current Students Gateway](#)
- [Student Support](#)
- [Academic Skills and Support](#)
- [Student Wellbeing, Health and Safety](#)
- [Equitable Learning Services](#)
- [UNSW IT Service Centre](#)
- Science EDI Student [Initiatives](#), [Offerings](#) and [Guidelines](#)

School Contact Information

Email:

aviation@unsw.edu.au

Telephone:

Undergraduate Courses - +61 2 9385 5756 (Katie Wang)

Postgraduate Courses - +61 2 9385 5787 (Michelle Lee)