UNSW Course Outline

AVIA5003 Aviation and Security - 2024

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General Course Information

Course Code : AVIA5003
Year : 2024
Term : Term 2
Teaching Period : T2
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

With aviation continuing to experience unprecedented times, challenges with increasing operations in Australia, in addition to a shortage of industry workers and the strain on aviation infrastructure, the potential for terrorist and criminal activitiesinvolving the industry remains a

possibility. The combination of these factors highlights the need for a focus on aviation security and related systems.

Aviation is a complex set of procedures and activities that when brought together results in a secure and efficient transport system. Any interruption to that system can and will have far reaching effects on public confidence and their expectations, government oversight, delays and costs to industry, and the potential for loss of live and suffering.

Aviation security as applied to airlines and airports must be risk based and outcomes focused. It must be tailored to the specifics of the airline or airport. Aviation security takes a layered approach to protecting an aircraft, passengers and crew. There is no one single measure that can be applied to mitigate the risk to zero. All risks must be identified and mitigated to an acceptable level. Aviation security is about reducing the risk whilst adding these elements to the aircraft.

This fully online, distance education course provides students with the opportunity to explore and evaluate contemporary security issues, aviation security standards and recommended practices, aviation security principles and procedures through case study-based learning and in a self-paced manner. The course will explore topics including the Australian regulatory environment, security in airports and airlines, risk and threat management, and security management systems. Students will also have the opportunity to test their understanding through assessments that draw on the concepts explored in the case studies.

Course Aims

The aim of the course is to introduce the student to the regulatory environment and develop the skills necessary to navigate legislation to achieve a sustainable, economical and efficient security outcome within the bounds set by the various regulators.

The course aims to provide a broad overview of the major elements underpinning the aviation security framework. It aims to give students an appreciation that this security environment changes rapidly, and therefore aviation security systems need to be agile yet resistant to attacks. Students will be provided with the opportunity to develop critical thinking and problem-solving skills when determining a prescriptive or outcomes-based aviation security framework is better for industry and/or Government.

Finally, this course aims to provide an environment for students to be actively engaged in the learning process. Activities are linked to both research and the real world, and allow students to reflect on how security in aviation relates to their career and the broader aviation industry. A supportive environment is provided, but there is an expectation that students will take

responsibility for their own learning and also learn co-operatively with their peers. Student assessment is designed to reflect the learning outcomes, and meaningful and timely feedback will be provided on coursework.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Describe an understanding of the historical development of aviation security and the international and Australian frameworks underpinning the aviation security regulatory environment
CLO2 : Recall the different regulatory approaches to dealing with aviation security
CLO3 : Explain an understanding of the principles of dealing with aviation security risks
CLO4 : Explain the difference between a prescriptive and outcomes based regulatory framework for aviation security.
CLO5 : Develop skills in asking appropriate security questions when dealing with security threats and/or risks, and exploring potential security outcomes.

Course Learning Outcomes	Assessment Item
CLO1 : Describe an understanding of the historical development of aviation security and the international and Australian frameworks underpinning the aviation security regulatory environment	• Regulatory Search • Aviation Security Essay
CLO2 : Recall the different regulatory approaches to dealing with aviation security	• Regulatory Search • Aviation Security Essay
CLO3 : Explain an understanding of the principles of dealing with aviation security risks	• CEO Briefing • Aviation Security Essay
CLO4 : Explain the difference between a prescriptive and outcomes based regulatory framework for aviation security.	• Aviation Security Essay
CLO5 : Develop skills in asking appropriate security questions when dealing with security threats and/or risks, and exploring potential security outcomes.	• CEO Briefing • Aviation Security Essay

Learning and Teaching Technologies

Moodle - Learning Management System | Zoom

Learning and Teaching in this course

The course is delivered electronically via UNSW Moodle website, on a distance-learning basis.

The core component of delivery is the course manual. The course manual approach allows

students to study at their own pace, in accordance with their particular work schedules and locations, subject to having studied sufficient material to be able to address the assessments as they come due. The course manual provides a considerable range of articles, references and case studies the student can absorb. Academic review and feedback is delivered via e-mail or Moodle.

Students are encouraged to ask questions relating to the course material during the course directly via email or via Moodle forums. Students are also encouraged to provide relevant examples of the principles learnt during the course in order to ensure they have captured the essence of the reading and the principles to be applied.

Students are encouraged to seek understanding from other students via the Moodle forums to further their understanding and potentially link it to a real life current or future application of the principle. It is likely many of the students will already be working inside the aviation industry with a wide set of experiences to bring to the discussion, albeit from different career paths.

Questions and emails can be sent at any time and will be answered as soon as possible.

A Zoom meeting will be scheduled each Wednesday evening from 7pm until 8pm (Sydney Australia time) to cover the previous week's readings, clarify any questions, discuss any timely events or disucss any other security related topic of interest.

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Regulatory Search Assessment Format: Individual	25%	Start Date: Week 1 Due Date: 23/06/2024 11:00PM
CEO Briefing Assessment Format: Individual	25%	Start Date: Week 1 Due Date: 21/07/2024 11:00PM
Aviation Security Essay Assessment Format: Individual	50%	Start Date: Week 1 Due Date: 16/08/2024 11:00PM

Assessment Details

Regulatory Search

Assessment Overview

This assignment will test your ability to answer specific questions by referencing appropriate

legislation. By accessing various information sources, you will answer a set of prescribed short-answer questions related to key pieces of legislation impacting the security of the aviation industry. Details of the assignment will be released in Week 1 of the course.

You will need to submit your answers to the assignment using the assignment question and answer sheet template provided on the course page and submit the assignment via Moodle in Week 4. Marks and detailed feedback will be provided within 10 working days after the submission deadline.

Course Learning Outcomes

- CLO1 : Describe an understanding of the historical development of aviation security and the international and Australian frameworks underpinning the aviation security regulatory environment
- CLO2 : Recall the different regulatory approaches to dealing with aviation security

Submission notes

Please refer to Assessments Hub on Moodle

Assignment submission Turnitin type

This is not a Turnitin assignment

CEO Briefing

Assessment Overview

You are to assume the role of an Airline Security Manager who has been requested to provide a maximum three-page submission to their CEO. You will be assessed on your ability to be concise, articulate the purpose of the submission, state and describe the top three issues of this proposal, detail and explain any options that should be considered or could be implemented, and provide any recommendations, if any.

Details of the assignment and request to be answered will be released via Moodle in Week 1. This assignment is to be submitted via Moodle in Week 8. Marks and detailed feedback will be provided within 10 working days after submission .

Course Learning Outcomes

- CLO3 : Explain an understanding of the principles of dealing with aviation security risks
- CLO5 : Develop skills in asking appropriate security questions when dealing with security threats and/or risks, and exploring potential security outcomes.

Submission notes

Please refer to Assessments Hub on Moodle

Aviation Security Essay

Assessment Overview

You are required to write an essay response of maximum 5,000 words in response to a specific question provided. The question covers the security regulatory environment and comprises several parts. You will be assessed on your ability to illustrate your answer with aviation security related examples taken from ICAO Annex 17, the Aviation Transport Security Act 2004 and/or the Aviation Transport Security Regulations 2005.

Details of this assignment will be made available to you from Week 1 of the course. You will need to submit this assessment during the Final Assessment Week (see assignment details for specific due date). Marks and general cohort feedback will be provided within 10 working days after submission.

Course Learning Outcomes

- CLO1 : Describe an understanding of the historical development of aviation security and the international and Australian frameworks underpinning the aviation security regulatory environment
- CLO2 : Recall the different regulatory approaches to dealing with aviation security
- CLO3 : Explain an understanding of the principles of dealing with aviation security risks
- CLO4 : Explain the difference between a prescriptive and outcomes based regulatory framework for aviation security.
- CLO5 : Develop skills in asking appropriate security questions when dealing with security threats and/or risks, and exploring potential security outcomes.

Assessment Length

maximum 5,000 words

Submission notes

Please refer to Assessments Hub on Moodle

Assignment submission Turnitin type

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

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.

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Unless otherwise specified, the following criteria will be applied in assessing your written work:

• Evidence of understanding of the legal concepts, theories and ideas developed in the subject;

• Ability to apply these concepts to situations from your own experience;

• Capacity to structure an exercise or assignment logically and limit it to the length required;

• Degree to which the material submitted for assessment addresses the specified or negotiated assignment requirements

<u>Grading Basis</u>

Standard

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 27 May - 2 June	Topic	Unit 1 : An introduction to Aviation Security
Week 2 : 3 June - 9 June	Topic	Unit 2 : Threat and Risk Assessment
Week 3 : 10 June - 16 June	Topic	Unit 3 : The Chicago Convention
Week 4 : 17 June - 23 June	Topic	Unit 4 : The International Aviaition Security Conventions
Week 5 : 24 June - 30 June	Topic	Unit 5 : The Australian Security Environment
Week 6 : 1 July - 7 July	Topic	Unit 6 : The International Regulatory Environemnt (Major Regulators)
Week 7 : 8 July - 14 July	Topic	Unit 7 : Airport Security
Week 8 : 15 July - 21 July	Topic	Unit 8 : Aircraft Operators
Week 9 : 22 July - 28 July	Topic	Unit 9 : Australian Transport Security Programs
Week 10 : 29 July - 4 August	Topic	Unit 10 : Security Management Systems (SeMS)

Attendance Requirements

Not Applicable - as no class attendance is required

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

There is no prescribed text for this course, however you should be familiar with:

1. *ICAO Annex 17 of the Chicago Convention;*
2. *The Aviation Transport Security Act 2004;*
3. *The Aviation Transport Security Regulations 2005,*
4. *The Crimes Aircraft Act 1991;*

Current Australian legislation can be downloaded from www.legislation.gov.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	Trevor Jones				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 Plagarism

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

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Telephone:

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