



UNSW

UNSW Course Outline

AVIA4003 Aviation Honours - Full Time - 2024

Published on the 20 May 2024

General Course Information

Course Code : AVIA4003

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 : In Person

Delivery Format : Standard

Delivery Location : Kensington

Campus : Sydney

Study Level : Undergraduate

Units of Credit : 16

Useful Links

[Handbook Class Timetable](#)

Course Details & Outcomes

Course Description

This course is only available to students enrolled in an Honours Program in the School of Aviation on a full-time basis and enrolment must be approved by the School's Honours Coordinator.

Students will achieve a deep understanding of a specific aspect of aviation while developing a range of skills that are highly valued in industry. Students conduct research on a topic selected by them in consultation with their supervisor and submit an independent research thesis. A series of cross-functional collaboration meetings supports the students' development of research skills. Attendance of School colloquia and presentations builds students' knowledge of academic and industry developments within aviation.

To engage in the Honours program on a full-time basis, students will need to enrol in AVIA4003 over 3 Terms.

To engage in the Honours program on a part-time basis, students will need to enrol in AVIA4004 over 6 Terms.

Entry Requirements:

- Credit-plus (i.e., WAM 65) average in BAv

Application Process:

- Application for entry into the Aviation Honours Program is made via the Science Faculty after obtaining the agreement of a research supervisor.

Components (assessable items) of the Honours Program

- Research skills cross-functional collaboration meetings (0%)
- Research proposal (first term of enrolment; 0%)
- Literature review (second term of enrolment; 0%)
- Midway Presentation (second term of enrolment; 0%)
- Final Presentation (third term of enrolment; 15%)
- Thesis and Thesis Defence (third term of enrolment; 85%)

Examination Procedure

- All summative assessments (5 and 6) are marked by at least two academics.
- Final Grade Based on performance across all summative assessments.

Range of Grades

- Honours Class I (85% or above)
- Honours Class II Division I (75% to 84%)
- Honours Class II Division II (65% to 74%)
- Honours Class III (50% to 64%)
- Fail (49% or below)

Course Aims

The aim of the Honours program is to provide students with the opportunity to undertake research and acquire advanced disciplinary knowledge. This is fostered through various milestones throughout the program, such as attendance at research skills cross-functional collaboration meetings and research seminars, submission of a literature review, and presentation of research work part-way through candidature. Students are also supported by academics and disciplinary experts to understand the expectations for their work, and to receive feedback throughout their candidature as a way to improve and refine their skills.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Communicate through verbal and written mediums specialised knowledge within a systematic and coherent body of knowledge relevant to the aviation research project.
CLO2 : Undertake scientific research by systematically following steps of good research with consideration of real-world problems, relevant literature and gaps in current knowledge, methodology, data collection and analysis, discussion of results and answering research questions.
CLO3 : Explain the research process and how to use it effectively for other aviation industry projects in the future.
CLO4 : Develop a research proposal on a specific aviation topic.
CLO5 : Write a research report evidencing good practice in report writing.
CLO6 : Use effective and strategic written and verbal communication skills for presenting complex ideas for various audiences and formats to convey research findings.

Course Learning Outcomes	Assessment Item
CLO1 : Communicate through verbal and written mediums specialised knowledge within a systematic and coherent body of knowledge relevant to the aviation research project.	<ul style="list-style-type: none"> • Research Skills Cross-Functional Collaboration Meetings • Literature Review • Midway Presentation • Final Presentation • Written Thesis and Thesis Defence
CLO2 : Undertake scientific research by systematically following steps of good research with consideration of real-world problems, relevant literature and gaps in current knowledge, methodology, data collection and analysis, discussion of results and answering research questions.	<ul style="list-style-type: none"> • Research Proposal • Research Skills Cross-Functional Collaboration Meetings • Literature Review • Midway Presentation • Final Presentation • Written Thesis and Thesis Defence
CLO3 : Explain the research process and how to use it effectively for other aviation industry projects in the future.	<ul style="list-style-type: none"> • Research Proposal • Research Skills Cross-Functional Collaboration Meetings • Literature Review • Midway Presentation • Final Presentation • Written Thesis and Thesis Defence
CLO4 : Develop a research proposal on a specific aviation topic.	<ul style="list-style-type: none"> • Research Proposal • Research Skills Cross-Functional Collaboration Meetings
CLO5 : Write a research report evidencing good practice in report writing.	<ul style="list-style-type: none"> • Literature Review • Written Thesis and Thesis Defence • Research Skills Cross-Functional Collaboration Meetings
CLO6 : Use effective and strategic written and verbal communication skills for presenting complex ideas for various audiences and formats to convey research findings.	<ul style="list-style-type: none"> • Midway Presentation • Final Presentation • Research Skills Cross-Functional Collaboration Meetings

Learning and Teaching Technologies

Moodle - Learning Management System | Microsoft Teams

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Research Skills Cross-Functional Collaboration Meetings Assessment Format: Individual	0%	Start Date: Not Applicable Due Date: Not Applicable
Research Proposal Assessment Format: Individual	0%	Start Date: Not Applicable Due Date: Not Applicable
Literature Review Assessment Format: Individual	0%	Start Date: Not Applicable Due Date: Not Applicable
Midway Presentation Assessment Format: Individual	0%	Start Date: Not Applicable Due Date: Not Applicable
Final Presentation Assessment Format: Individual	15%	Start Date: Not Applicable Due Date: Not Applicable
Written Thesis and Thesis Defence Assessment Format: Individual	85%	Start Date: Not Applicable Due Date: Not Applicable

Assessment Details

Research Skills Cross-Functional Collaboration Meetings

Assessment Overview

You are required to attend and participate in a series of research skills cross-functional collaboration meetings, designed to support your development of knowledge and skills needed to successfully complete your Honours program and become a skilled researcher. The meetings will also provide an opportunity for you to grow your aviation research network and share various insights and perspectives related to the aviation research space.

These meetings will be held at various stages across the program. This assessment does not contribute any weighting to your final Honours grade. However, it is a requirement that you attend and actively participate in these meetings to fulfil the requirements for successful completion of the Honours program. Guidelines and expectations for active participation will be provided to you at the start of your Honours program. Exceptions for attendance will need to be formally requested through the Honours coordinator and approved on a case-by-case basis.

Course Learning Outcomes

- CLO1 : Communicate through verbal and written mediums specialised knowledge within a systematic and coherent body of knowledge relevant to the aviation research project.
- CLO2 : Undertake scientific research by systematically following steps of good research with consideration of real-world problems, relevant literature and gaps in current knowledge,

methodology, data collection and analysis, discussion of results and answering research questions.

- CLO3 : Explain the research process and how to use it effectively for other aviation industry projects in the future.
- CLO4 : Develop a research proposal on a specific aviation topic.
- CLO5 : Write a research report evidencing good practice in report writing.
- CLO6 : Use effective and strategic written and verbal communication skills for presenting complex ideas for various audiences and formats to convey research findings.

Assignment submission Turnitin type

Not Applicable

Research Proposal

Assessment Overview

This task will be due in your first Term of Honours enrolment only.

You are required to submit a maximum 1500-word research proposal to your supervisor and Honours program coordinator. This will be marked by your primary supervisor. The research proposal is typically due in Week 6 of your first term of enrolment. However, the due date will be announced by your Honours program coordinator.

This formative assessment has no weighting in the final Honours grade. However, it is a hurdle task for you to progress further in the Honours program from this point and is therefore one of the requirements for you to successfully complete the Honours Program.

Your primary supervisor will provide you with written feedback.

Course Learning Outcomes

- CLO2 : Undertake scientific research by systematically following steps of good research with consideration of real-world problems, relevant literature and gaps in current knowledge, methodology, data collection and analysis, discussion of results and answering research questions.
- CLO3 : Explain the research process and how to use it effectively for other aviation industry projects in the future.
- CLO4 : Develop a research proposal on a specific aviation topic.

Assessment information

The research proposal needs to include a detailed Gantt Chart including milestones. When sending the research proposal to the Honours Coordinator the candidate needs to confirm that project dates and milestones have been agreed with the supervisor.

Hurdle rules

Sufficient research proposal as judged by the supervisor and Honours Coordinator.

Literature Review

Assessment Overview

This task will be due in your second Term of Honours enrolment only.

You are required to submit a maximum 3,000-word preliminary introduction and literature review of your research area to your primary supervisor and Honours program coordinator. The research proposal is typically due in Week 5 of your second term of enrolment. However, the due date will be announced by your Honours program coordinator.

This formative assessment has no weighting in the final Honours grade. However, it is a hurdle task for you to progress further in the Honours program from this point and is therefore one of the requirements for you to successfully complete the Honours Program.

Your work will be marked by your primary supervisor. The purpose of this task is to ensure that the student is working towards the expected schedule for all Honours students and to provide timely feedback on their work. Your primary supervisor will provide written feedback on your literature review.

Course Learning Outcomes

- CLO1 : Communicate through verbal and written mediums specialised knowledge within a systematic and coherent body of knowledge relevant to the aviation research project.
- CLO2 : Undertake scientific research by systematically following steps of good research with consideration of real-world problems, relevant literature and gaps in current knowledge, methodology, data collection and analysis, discussion of results and answering research questions.
- CLO3 : Explain the research process and how to use it effectively for other aviation industry projects in the future.
- CLO5 : Write a research report evidencing good practice in report writing.

Hurdle rules

Sufficient literature review as judged by the supervisor and Honours Coordinator.

Midway Presentation

Assessment Overview

This task will be due in your second Term of Honours enrolment only.

You are required to present your work-in-progress to an audience including academics,

researchers and other research students. This will likely occur in Week 5 of your second term of enrolment.

The presentation must not be longer than 15 mins in duration. This is followed by 10 mins of Q&A for you to answer questions asked by the audience on your work. The audience provides feedback on the presentation skills and research content.

This formative assessment has no weighting in the final Honours grade. However, it is a hurdle task for you to progress further in the Honours program from this point and is therefore one of the requirements for you to successfully complete the Honours Program.

The purpose of this task is to ensure that you are working towards the expected schedule for all Honours students and for you to receive timely feedback on their work.

Course Learning Outcomes

- CLO1 : Communicate through verbal and written mediums specialised knowledge within a systematic and coherent body of knowledge relevant to the aviation research project.
- CLO2 : Undertake scientific research by systematically following steps of good research with consideration of real-world problems, relevant literature and gaps in current knowledge, methodology, data collection and analysis, discussion of results and answering research questions.
- CLO3 : Explain the research process and how to use it effectively for other aviation industry projects in the future.
- CLO6 : Use effective and strategic written and verbal communication skills for presenting complex ideas for various audiences and formats to convey research findings.

Hurdle rules

Attend and present in Midway Presentation is a requirement to continue in the honours Program.

Final Presentation

Assessment Overview

This task will be due in your final Term of Honours enrolment only.

You are required to present your research findings to an audience including lecturers and researchers. The presentation must not be longer than 30 mins in duration. This is followed by 10 mins of questions and answers. You will be assessed on your presentation and communication of your research process and output.

The due date of the thesis is typically Week 9 of the final term of enrolment. However, the final date will be determined and announced by the Honours coordinator.

You will be graded by the academics in the audience, and your final average mark is given to you. This assessment task contributes to 15% of the final grade.

You will receive the written comments provided by academics via email from the Honours coordinator within 5 working days after your final presentation.

Course Learning Outcomes

- CLO1 : Communicate through verbal and written mediums specialised knowledge within a systematic and coherent body of knowledge relevant to the aviation research project.
- CLO2 : Undertake scientific research by systematically following steps of good research with consideration of real-world problems, relevant literature and gaps in current knowledge, methodology, data collection and analysis, discussion of results and answering research questions.
- CLO3 : Explain the research process and how to use it effectively for other aviation industry projects in the future.
- CLO6 : Use effective and strategic written and verbal communication skills for presenting complex ideas for various audiences and formats to convey research findings.

Assessment Length

30 min presentation

Submission notes

Power Point slides and short abstract need to be sent to the convenor by email no later than 2 business days at 10am before the presentation date that has been announced by the convenor.

Assignment submission Turnitin type

Not Applicable

Hurdle rules

Attendance and presentation of final presentation is required to continue in the Honours Program.

Written Thesis and Thesis Defence

Assessment Overview

This task will be due in your final Term of Honours enrolment.

This assessment comprises of 2 parts;

- (i) a written report of the project in the form of a thesis,
- (ii) a subsequent thesis defence.

Written thesis:

You are required to submit a written thesis that does not exceed 20,000 words (not including appendices and reference list). The thesis should follow the format of a Masters' or PhD thesis in style. However, you should discuss the exact chapter structure with their supervisor.

The due date of the thesis is typically Week 10 of the final term of enrolment. However, the final date will be determined and announced by the Honours coordinator.

You will have your thesis critically assessed internally by at least two reviewers from the School of Aviation. Each member of your review committee will then independently read and assess the final thesis without consultation with each other.

Although the thesis is preliminarily assessed at this stage, there is no raw mark awarded. Instead, the assessment is used to inform the questions posed by the examiners in the thesis defence, which forms part of the final thesis assessment.

Thesis defence:

After the submission of your thesis, you will undergo an interview in a Q&A format with your two thesis examiners, your supervisor and moderated by the Honours program coordinator. This conversation is expected to be 20 to 30 minutes in duration. The examiners will inquire about your research process, experience in conducting your research, decisions made that shaped your research, technical questions regarding methodology, and other research-related topics. You will receive immediate informal verbal feedback on your defence. Once a final decision has been made on your grade, written feedback from the examiners will be shared with you.

Course Learning Outcomes

- CLO1 : Communicate through verbal and written mediums specialised knowledge within a systematic and coherent body of knowledge relevant to the aviation research project.
- CLO2 : Undertake scientific research by systematically following steps of good research with consideration of real-world problems, relevant literature and gaps in current knowledge, methodology, data collection and analysis, discussion of results and answering research questions.
- CLO3 : Explain the research process and how to use it effectively for other aviation industry projects in the future.
- CLO5 : Write a research report evidencing good practice in report writing.

Assessment Length

12,000 - 20,000 words without references and appendices

Submission notes

send your thesis to the convenor by email in word and pdf format before the announced date

Assessment information

The thesis will be checked for plagiarism using standard software.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

General Assessment Information

Grading Basis

Standard

Requirements to pass course

Attend all workshops.

Participate in all presentations.

Submit all required documents such as research proposal, literature review, etc. on time.

Submit thesis and present thesis results.

Receive overall grade of at least 50.

Course Schedule

Attendance Requirements

Full-time students are expected to work daily in the School's office.

All research workshops and seminars have to be attended and active participation is expected.

General Schedule Information

Research workshops and seminars are scheduled by the course convenor and students informed accordingly about date, time and location.

Midway presentation, final presentation, due date for thesis and thesis defence meeting are scheduled by the course convenor and students informed accordingly about date, time and location.

Course Resources

Recommended Resources

Useful Resources:

Bell, J. (1999). Doing your Research Project: a Guide for First-Time Researchers in Education and Social Science. Milton Keynes, England: Open University Press. Earlier editions: S 370.78/100, G 370.78/100 A.

Blaxter, L., Hughes, C. and Tight, M. (1996). How to Research. Buckingham: Open University Press, 1996. Earlier editions: G 001.42/34

Corbetta, P. (2003). Social Research: Theory, Methods and Techniques. Thousand Oaks, Calif.: Sage Publications.

Creswell, J.W. (2003). Research Design: Qualitative, Quantitative, and Mixed Method Approaches (2nd Ed.). Thousand Oaks, Calif.: Sage Publications. S 300.72/239 C.

Gray, D.E. (2004). Doing Research in the Real World. Thousand Oaks, Calif.: Sage Publications.

Gujarati, D (2004) Basic Econometrics 4th Ed, McGraw-Hill

Moore, D.S. and McCabe, G.P. (2003). Introduction to the Practice of Statistics (3rd Ed.). New York, NY: W.H. Freeman and Company.

Rozakis, L.E. (2004). Complete Idiot's Guide to Research Methods. Alpha books.

Wiggins, M.W. and Stevens, C. (1999). Aviation Social Science: Research Methods in Practice. Aldershot, UK: Ashgate.

All of the above are available via the UNSW Bookshop/Library. Other textbooks, journal articles, conference proceedings, reports, etc. are available, and will depend on your chosen topic for research.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Mirjam Wi edemann		office 217, School of Aviation	+61 2 9348 1689	by email Monday to Friday and by appointment	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)