



UNSW Course Outline

BABS3041 Immunology - 2024

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General Course Information

Course Code : BABS3041

Year : 2024

Term : Term 1

Teaching Period : T1

Is a multi-term course? : No

Faculty : Faculty of Science

Academic Unit : School of Biotechnology and Biomolecular Sciences

Delivery Mode : In Person

Delivery Format : Standard

Delivery Location : Kensington

Campus : Sydney

Study Level : Undergraduate

Units of Credit : 6

Useful Links

[Handbook Class Timetable](#)

Course Details & Outcomes

Course Description

This Immunology course is designed for students majoring in Medical Microbiology, Biotechnology, Biomolecular Science, Medical Science, and other fields related to human health. The course offers students the opportunity to develop their understanding, skills, and critical thinking in the field of immunology.

The course first introduces the components of the immune system, including their development, structures, functions, interactions, and regulations during immune responses. Subsequently, the course introduces the applied and clinical aspects of immunology, including allergy, immunodeficiency, immune system and cancer, vaccination, autoimmunity, engineering antibodies, diagnostic immunology, and immunological research strategies. The practical classes provide students with hands-on experience on critical immunological techniques such as immunological assays. Moreover, the course guides students in critically analyzing immunological matters and literature relevant to the community.

Course Aims

The aim of this course is to assist students in advancing their comprehension, skills, and critical thinking within the discipline of immunology. The lecture materials aim to provide a comprehensive knowledge of the structure, functions, interactions of components of the human immune system, and clinical applications. The practical classes aim to reinforce the core immunological concepts covered in lectures and introduce students to important immunological laboratory techniques and assays.

Relationship to Other Courses

Pre-requisite(s): (BIOC2101 or BIOC2181 and MICR2011)

or (BIOC2101 or BIOC2181 and BABS2202).

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Describe different components of the immune system and their responses to infection and cancer.
CLO2 : Explain how immunological abnormalities may cause human diseases.
CLO3 : Explain how immunological interventions may prevent and treat human diseases.
CLO4 : Apply diagnostic laboratory techniques to diagnose immunological disorders.
CLO5 : Design laboratory experiments to address immunological questions.

Course Learning Outcomes	Assessment Item
CLO1 : Describe different components of the immune system and their responses to infection and cancer.	<ul style="list-style-type: none">• Test 1• Test 2• Final Exam
CLO2 : Explain how immunological abnormalities may cause human diseases.	<ul style="list-style-type: none">• Final Exam
CLO3 : Explain how immunological interventions may prevent and treat human diseases.	<ul style="list-style-type: none">• Final Exam
CLO4 : Apply diagnostic laboratory techniques to diagnose immunological disorders.	<ul style="list-style-type: none">• Final Exam
CLO5 : Design laboratory experiments to address immunological questions.	<ul style="list-style-type: none">• Practical Assignment• Final Exam

Learning and Teaching Technologies

Moodle - Learning Management System

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Practical Assignment Assessment Format: Individual	20%	
Test 1 Assessment Format: Individual	20%	
Test 2 Assessment Format: Individual	20%	
Final Exam Assessment Format: Individual	40%	

Assessment Details

Practical Assignment

Assessment Overview

The assignment will examine your ability to apply knowledge and skills that you have learnt from the lectures, laboratory classes or other sources to solve real-life problems.

You will submit an experimental design with no specific word limit on topics that will be provided in week 5

The task is due at the end of Week 9 with marks and feedback released online in Moodle within 10 working days of submission.

Course Learning Outcomes

- CLO5 : Design laboratory experiments to address immunological questions.

Test 1

Assessment Overview

You will complete Test 1 in week 3 of the course. This test examines the content from lectures 1-6 and the practical class held in week 2.

Test 1 will be invigilated and held in the laboratory class prior to the start of the week 3 practical class.

Test 1 has a duration of 35 minutes. Question types typically include multiple choice questions and short-answer questions.

Your test marks and feedback will be made available on Moodle within 10 working days from the date of Test 1. Individual feedback is available upon request.

Course Learning Outcomes

- CLO1 : Describe different components of the immune system and their responses to infection and cancer.

Test 2

Assessment Overview

You will complete Test 2 in week 5 of the course. This test examines the content from lectures 7-12.

Test 2 will be invigilated and held in the laboratory class prior to the start of the week 5 practical class.

Test 2 has a duration of 35 minutes. Question types typically include multiple choice questions and short-answer questions.

Your test marks and feedback will be made available on Moodle within 2 weeks from the date of Test 2. Individual feedback is available upon request.

Course Learning Outcomes

- CLO1 : Describe different components of the immune system and their responses to infection and cancer.

Final Exam

Assessment Overview

This examination is designed to assess your knowledge of the material presented from Lectures 13-24 and the flow cytometry practical sessions.

The test is 1.5 hours in duration and is scheduled during the formal examination period. The test typically consists of short answer and essay type questions.

Additional information will be provided during the course.

Feedback is available through inquiry with the course convenor.

Course Learning Outcomes

- CLO1 : Describe different components of the immune system and their responses to infection and cancer.
- CLO2 : Explain how immunological abnormalities may cause human diseases.
- CLO3 : Explain how immunological interventions may prevent and treat human diseases.
- CLO4 : Apply diagnostic laboratory techniques to diagnose immunological disorders.
- CLO5 : Design laboratory experiments to address immunological questions.

General Assessment Information

Grading Basis

Standard

Course Schedule

Attendance Requirements

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

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Li Zhang					No	Yes
	Li Zhang					No	No
Convenor	Li Zhang					No	No

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](#)