

# NATS 7003 BIOLOGICAL AGENTS 2

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Teaching Periods

**Credit Points** 10

**Legacy Code** 301155

**Coordinator** Chris Lennard ([https://directory.westernsydney.edu.au/search/name/Chris Lennard/](https://directory.westernsydney.edu.au/search/name/Chris%20Lennard/))

**Description** This unit builds on the knowledge gained in the Biological Agents 1 and develops students' understanding of the tools and processes involved in the field of biosecurity. This unit is taught by the University of Canberra as part of a collaborative venture between the University of Canberra and Western Sydney University. Note: Further information on this unit is available from the University of Canberra.

**School** Science

**Discipline** Forensic Science

**Student Contribution Band** HECS Band 2 10cp

**Level** Postgraduate Coursework Level 7 subject

## Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

## Learning Outcomes

On successful completion of this subject, students should be able to:

- gather, analyse, evaluate, interpret and present information relevant to biosecurity in a systematic, creative and insightful way
- identify potential biosecurity threats and use reflective practice and independent critical thinking to determine the appropriate tools and procedures to implement for rapid and effective solutions
- use foresight, initiative and leadership skills to implement effective decisions and cope with novel situations, both independently and collaboratively

## Subject Content

Module 1: Introduction to Biosecurity

Module 2: Molecular and Genetic Tools and Procedures

Module 3: Proteomic and Immunological Tools and Procedures

Module 4: Microbiological Tools and Procedures

Module 5: Microbial Forensics and Bioforensics Tools and Procedures

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Item	Length	Percent	Threshold	Individual/ Group Task
Final Exam	Not specified	100	N	Individual

Prescribed Texts

- Microbial Forensics Bruce Budowle, Steven E. Schutzer, Roger G. Breeze, and Paul S. Keim Academic Press; 2nd edition, 2010 ISBN: 9780123820068