

NURS 2043 PHARMACOLOGY AND MICROBIOLOGY FOR MIDWIFERY

Credit Points 10

Coordinator Farnoosh Asghar Vahedi ([https://directory.westernsydney.edu.au/search/name/Farnoosh Asghar Vahedi/](https://directory.westernsydney.edu.au/search/name/Farnoosh%20Asghar%20Vahedi/))

Description The purpose of this subject is twofold. It develops students' knowledge in pharmacology including, pharmacokinetics, pharmacodynamics and the quality use of medicine in midwifery. The subject also builds knowledge in microbiology and the impact of microorganisms on maternal, fetal and newborn health and examines the body's natural defences including the microbiome.

School Nursing & Midwifery

Discipline Midwifery

Student Contribution Band HECS Band 1 10cp

Check your fees via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 2 subject

Pre-requisite(s) NURS 1010 - Midwifery Knowledge 2
NURS 1013 - Midwifery Professional Practice 2

Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Learning Outcomes

1. Explain principles of pharmacotherapeutics, pharmacology and pharmacokinetics
2. Explain the quality use of medicine during pregnancy, childbirth and the puerperium including indications, classification, and potential adverse events, for safe drug administration
3. Analyse the role of microorganisms in health breakdown within the community and health care facilities with particular relevance to midwifery
4. Describe the role of the immune system and the body's defence mechanisms

Subject Content

- Principles of pharmacokinetics and pharmacodynamics
- Administration routes
- Quality use of medicines in midwifery (Mothersafe)
- Common medication groups for midwifery
- Common medications used during pregnancy, labour and birth and in the postnatal period
- Legislation related to medication administration and responsibilities of health professionals
- Scheduling of drugs
- Non-pharmacological and complementary therapies
- Immunisation
- Storage of drugs including cold chain
- Fundamental microbiology
- Host-microbe interactions

- The immune system
- Infection control
- The body's defence mechanisms
- The microbiome

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.

Type	Length	Percent	Threshold	Individual/ Group Task	Mandatory
Case Study	500 words	30	N	Individual	Y
Case Study	500 words	30	N	Individual	Y
Final Exam	2 hours	40	N	Individual	Y

Prescribed Texts

- Bullock, S. & Manias, E. (2017). *Fundamentals of pharmacology*. Melbourne: Pearson Australia
- Lee, G. & Bishop, P. (2016). *Microbiology and infection control for health professionals* (6th ed.). Melbourne: Pearson Australia
- Pairman, S., Tracy, S., Dahlen, H., Dixon, L. (2019). *Midwifery: Preparation for practice*, (4th ed.). Chatswood, N.S.W: Elsevier, Australia

Teaching Periods

Autumn (2025)

Parramatta - Victoria Rd

On-site

Subject Contact Farnoosh Asghar Vahedi ([https://directory.westernsydney.edu.au/search/name/Farnoosh Asghar Vahedi/](https://directory.westernsydney.edu.au/search/name/Farnoosh%20Asghar%20Vahedi/))

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NURS2043_25-AUT_PS_1#subjects)