

# NURS 2040 PHARMACOLOGY IN NURSING

**Credit Points** 10

**Legacy Code** 401450

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

**Description** It is imperative that registered nurses have a solid understanding of pharmacology. This subject introduces principles and core concepts of pharmacology with a distinct emphasis on safe medication administration in nursing. Students will acquire knowledge of pharmacokinetics and pharmacodynamics and systematically develop an understanding of actions and reactions of commonly prescribed drugs to individual people across the lifespan. Electronic medication management systems, patient education and engagement in medication management are addressed in this subject.

**School** Nursing & Midwifery

**Discipline** General Nursing

**Student Contribution Band** HECS Band 1 10cp

Check your fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 2 subject

**Co-requisite(s)** NURS 2036

## Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4692 Bachelor of Nursing (Graduate Entry), 4780 Bachelor of Nursing - WSU Online.

## Learning Outcomes

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

1. Identify the principles and core concepts of pharmacokinetics and pharmacodynamics
2. Describe the mechanisms of actions and reactions of commonly prescribed drugs to individual people across the lifespan
3. Appraise up-to-date evidence, best practice guidelines and recommended evidence for drug therapies
4. Apply knowledge of state and territory legislation and health service policies for medication prescription, storage, use and administration
5. Reflect on safe administration of medication

## Subject Content

1. Principles of pharmacology
  - a. Pharmacokinetics
  - b. Pharmacodynamics
  - c. Variability of drug action and reactions to people across lifespan
  - d. Individual differences
2. Commonly prescribed drugs
  - a. Anti-infective and anti-allergic agents (antimicrobials, antivirals, antiparasitics, antifungals, and vaccines; anti-histamines and immunosuppressants)
  - b. Analgesics (opioids, non-opioids and non-steroidal anti-inflammatory drugs)
  - c. Drugs for gastrointestinal disorders (anti-emetics, laxatives, anti-diarrhoeal agents, vitamin supplements)

- d. Drugs for cardiovascular disorders (anti-hypertensives, anti-angina drugs, lipid-lowering agents, anticoagulants, antiplatelets, thrombolytics, drugs for heart failure and antidysrhythmic agents)
  - e. Drugs for respiratory disorders (drugs for rhinitis, asthma and chronic obstructive pulmonary disease)
  - f. Drugs modifying endocrine system (birth control pills, anti-diabetic agents, drugs for thyroid disorders)
  - g. Anxiolytics and hypnotics
3. Nursing considerations for quality use and administration of medicines
    - a. Psycho-socio-cultural aspects of pharmacotherapeutics
    - b. Medication safety and reporting medication incidents including adverse drug reactions, medication errors and near misses
    - c. Interprofessional and intraprofessional communication related to safe medication management and practices
    - d. Electronic medication management systems
    - e. Medication adherence including legislative and organisational requirements for storage, use and administration
    - f. Patient education and engagement in medication management

## 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
Quiz	40 minutes x 1	30	N	Individual
Portfolio	1000 words or equivalent	30	N	Individual
Viva Voce	20 minutes	40	Y	Individual
Participation	All teaching weeks	S/U	Y	Individual

## WSU Online

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
Quiz	30 minutes x 2	30	N	Individual
Portfolio	1000 words or equivalent	30	N	Individual
Viva Voce	20 minutes	40	Y	Individual

Teaching Periods

## WSU Online TRI-1 (2024)

### Wsu Online

#### Online

**Subject Contact** Jacqueline Rojo ([https://directory.westernsydney.edu.au/search/name/Jacqueline Rojo/](https://directory.westernsydney.edu.au/search/name/Jacqueline%20Rojo/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=NURS2040\\_24-OT1\\_OW\\_2#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NURS2040_24-OT1_OW_2#subjects))

## Autumn (2024)

### Campbelltown

#### On-site

**Subject Contact** Jacqueline Rojo ([https://directory.westernsydney.edu.au/search/name/Jacqueline Rojo/](https://directory.westernsydney.edu.au/search/name/Jacqueline%20Rojo/))

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### Hawkesbury

#### On-site

**Subject Contact** Jacqueline Rojo ([https://directory.westernsydney.edu.au/search/name/Jacqueline Rojo/](https://directory.westernsydney.edu.au/search/name/Jacqueline%20Rojo/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=NURS2040\\_24-AUT\\_HW\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NURS2040_24-AUT_HW_1#subjects))

### Liverpool

#### On-site

**Subject Contact** Jacqueline Rojo ([https://directory.westernsydney.edu.au/search/name/Jacqueline Rojo/](https://directory.westernsydney.edu.au/search/name/Jacqueline%20Rojo/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=NURS2040\\_24-AUT\\_LP\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NURS2040_24-AUT_LP_1#subjects))

### Parramatta - Victoria Rd

#### On-site

**Subject Contact** Jacqueline Rojo ([https://directory.westernsydney.edu.au/search/name/Jacqueline Rojo/](https://directory.westernsydney.edu.au/search/name/Jacqueline%20Rojo/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=NURS2040\\_24-AUT\\_PS\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NURS2040_24-AUT_PS_1#subjects))

## WSU Online TRI-2 (2024)

### Wsu Online

#### Online

**Subject Contact** Jacqueline Rojo ([https://directory.westernsydney.edu.au/search/name/Jacqueline Rojo/](https://directory.westernsydney.edu.au/search/name/Jacqueline%20Rojo/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=NURS2040\\_24-OT2\\_OW\\_2#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NURS2040_24-OT2_OW_2#subjects))

## WSU Online TRI-3 (2024)

### Wsu Online

#### Online

**Subject Contact** Laura Mellish ([https://directory.westernsydney.edu.au/search/name/Laura Mellish/](https://directory.westernsydney.edu.au/search/name/Laura%20Mellish/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=NURS2040\\_24-OT3\\_OW\\_2#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NURS2040_24-OT3_OW_2#subjects))