

# NATS 7037 NATURAL MEDICINAL PRODUCTS

**Credit Points** 10

**Legacy Code** 301141

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

**Description** This subject has been developed to introduce students to the procedures and processes associated with the production, isolation, characterization and use of medicinal drugs of plant origin. This subject is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this subject is available from the University of Florida.

**School** Science

**Discipline** Forensic Science

**Student Contribution Band** HECS Band 2 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** 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:

1. Understand the biochemical reactions involved in the production of natural medicinal products
2. Understand the effects of external factors on the production of secondary metabolites
3. Be familiar with naturally occurring biologically active compounds such as alkaloids and glycosides
4. Be familiar with the isolation and structural elucidation of plant derived compounds
5. Understand the abuse potential, recognition and analysis of drugs of abuse of natural origin
6. Be familiar with the chemistry and pharmacology of herbal remedies. Problems associated with their lack of standardization and potential drug interactions

## Subject Content

Module 1 Biosynthesis of Natural Products  
 Module 2 Production Ecology of Secondary Metabolites  
 Module 3 Alkaloids  
 Module 4 Glycosides  
 Module 5 Naturally Occurring Drugs of Abuse  
 Module 6 Herbal Remedies  
 Module 7 Analysis for Natural Products

## 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
Final Exam	Not specified	100	N	Individual

Teaching Periods

## Florida Term 3 (2023)

### Online

#### Online

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=NATS7037\\_23-FT3\\_ON\\_2#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS7037_23-FT3_ON_2#subjects))

## Uni of Florida - Term 1 (2024)

### Online

#### Online

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=NATS7037\\_24-FT1\\_ON\\_2#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS7037_24-FT1_ON_2#subjects))

## Uni of Florida - Term 3 (2024)

### Online

#### Online

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

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