

# INFO 9003 HIGHER DEGREE RESEARCH THESIS - MATHEMATICS SCIENCES

**Credit Points** 80

**Legacy Code** 800223

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

**School** Graduate Research School

**Discipline** Information Technology, Not Elsewhere Classified.

**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** PhD and Research Masters Level 9 subject

Teaching Periods

## Research Quarter 3 (2024)

### Bankstown City

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFO9003\\_24-RQ3\\_BK\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFO9003_24-RQ3_BK_1#subjects))

### Campbelltown

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFO9003\\_24-RQ3\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFO9003_24-RQ3_CA_1#subjects))

### Hawkesbury

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFO9003\\_24-RQ3\\_HW\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFO9003_24-RQ3_HW_1#subjects))

### Penrith (Kingswood)

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFO9003\\_24-RQ3\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFO9003_24-RQ3_KW_1#subjects))

### Parramatta - Victoria Rd

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFO9003\\_24-RQ3\\_PS\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFO9003_24-RQ3_PS_1#subjects))

## Research Quarter 4 (2024)

### Bankstown City

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFO9003\\_24-RQ4\\_BK\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFO9003_24-RQ4_BK_1#subjects))

### Campbelltown

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFO9003\\_24-RQ4\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFO9003_24-RQ4_CA_1#subjects))

### Hawkesbury

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFO9003\\_24-RQ4\\_HW\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFO9003_24-RQ4_HW_1#subjects))

### Penrith (Kingswood)

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFO9003\\_24-RQ4\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFO9003_24-RQ4_KW_1#subjects))

### Parramatta - Victoria Rd

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFO9003\\_24-RQ4\\_PS\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFO9003_24-RQ4_PS_1#subjects))

## Research Quarter 1 (2025)

### Bankstown City

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ1\\_BK\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ1_BK_1#subjects))

### Campbelltown

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ1\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ1_CA_1#subjects))

### Hawkesbury

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ1\\_HW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ1_HW_1#subjects))

## Penrith (Kingswood)

### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ1\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ1_KW_1#subjects))

## Parramatta - Victoria Rd

### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ1\\_PS\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ1_PS_1#subjects))

## Research Quarter 2 (2025)

### Bankstown City

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ2\\_BK\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ2_BK_1#subjects))

### Campbelltown

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ2\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ2_CA_1#subjects))

### Hawkesbury

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ2\\_HW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ2_HW_1#subjects))

## Penrith (Kingswood)

### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ2\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ2_KW_1#subjects))

## Parramatta - Victoria Rd

### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ2\\_PS\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ2_PS_1#subjects))

## Research Quarter 3 (2025)

### Bankstown City

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ3\\_BK\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ3_BK_1#subjects))

## Campbelltown

### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ3\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ3_CA_1#subjects))

## Hawkesbury

### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ3\\_HW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ3_HW_1#subjects))

## Penrith (Kingswood)

### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ3\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ3_KW_1#subjects))

## Parramatta - Victoria Rd

### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ3\\_PS\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ3_PS_1#subjects))

## Research Quarter 4 (2025)

### Bankstown City

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ4\\_BK\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ4_BK_1#subjects))

### Campbelltown

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ4\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ4_CA_1#subjects))

### Hawkesbury

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ4\\_HW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ4_HW_1#subjects))

## Penrith (Kingswood)

### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ4\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ4_KW_1#subjects))

## Parramatta - Victoria Rd

### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=INFO9003\\_25-RQ4\\_PS\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO9003_25-RQ4_PS_1#subjects))