

# FINC 7006 FINANCIAL MODELLING

**Credit Points** 10

**Legacy Code** 51054

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

**Description** This subject is essential in preparing students for applied financial analysis and modelling applications used extensively in a number of postgraduate finance subjects. It familiarises students with the strengths and limitations of contemporary quantitative modelling techniques using multivariate statistical procedures and optimisation approaches. Students are also familiarised with relevant software.

**School** Business

**Discipline** Econometrics

**Student Contribution Band** HECS Band 4 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 a postgraduate Business program.

## Learning Outcomes

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

1. Undertake tests of economic and financial hypotheses using empirical data and summarise their results in a sensible reporting format;
2. Apply quantitative analysis techniques;
3. Implement the basic elements of financial modelling and forecasting;
4. Use computer software to analyse financial problems;
5. Demonstrate ability to construct financial models.

## Subject Content

Introduction to Financial Modelling and Financial Data  
 Correlation Analysis  
 Introduction to Simple Regression  
 Multiple Regressions  
 Regression with Dummy Variables  
 Regression with Lagged Explanatory Variables  
 Univariate Time Series Analysis  
 Regression with Time Series Variables  
 Financial Volatility  
 Revision and writing an Empirical Project

## 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
Intra-session Exam	90 minutes	30	N	Individual
Report	4,500 words	20	N	Group
Final Exam	2 hours	50	N	Individual

### Prescribed Texts

- Koop, Gary. 2006, Analysis of Financial Data, John Wiley and Sons Ltd, West Sussex, England.

### Teaching Periods

## Quarter 1 (2024)

### Parramatta City - Macquarie St

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=FINC7006\\_24-Q1\\_PC\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=FINC7006_24-Q1_PC_1#subjects))