

MATH 1030 STATISTICS FOR BUSINESS

Credit Points 10

Legacy Code 200032

Coordinator Neil Hopkins (<https://directory.westernsydney.edu.au/search/name/Neil Hopkins/>)

Description Statistics for Business introduces the basic concepts and techniques of statistics that are particularly relevant to problem solving in business. It also provides a sound base for more advanced study in statistics and forecasting in subsequent sessions. Topics include: presentation of data; descriptive statistics; the role of uncertainty in business decision making; hypothesis testing; and basic forecasting.

School Computer, Data & Math Sciences

Discipline Statistics

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 1 subject

Equivalent Subjects MATH 1032 Statistics for Science MATH 1028 Statistical Decision Making MATH 1003 Biometry ECON 1006 Introduction to Economic Methods MATH 1012 Management Analytics MATH 1031 Statistics for Business (WSTC) MATH 1004 Biometry (WSTC) MATH 1029 Statistical Decision Making (WSTC)

Assumed Knowledge

HSC Mathematics/Mathematics Extension 1 is desirable.

Learning Outcomes

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

1. organise and summarise data numerically
2. recognize the foundation behind inferential statistics
3. identify the underlying assumptions associated with each statistical technique and interpret the results
4. formulate economic and financial hypotheses into statistically testable forms
5. manipulate, analyse and graph data using Excel
6. employ the appropriate statistical methods and techniques in given situations

Subject Content

Data presentation and descriptive statistics

Elementary probability

Random variables and probability distributions

Normal distributions and sampling distributions

Parameter estimation and hypothesis testing - single population

Parameter estimation and hypothesis testing - two populations

Simple linear regression analysis and correlation

Analysis of categorical data

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
Multiple Choice	60 minutes	15	N	Individual	Y
Short Answer	90 minutes	20	N	Individual	Y
Short Answer	1.5 hours (Over 5 weeks each 30 minutes)	25	N	Group	Y
Final Exam	90 minutes	40	Y	Individual	Y

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	Mandatory
Quiz	30 minutes each quiz	15	N	Individual	Y
Quiz	60 minutes	25	N	Individual	Y
Short Answer	N/A	20	N	Individual	Y
Final Exam	2 hours	40	Y	Individual	Y

Autumn 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	Mandatory
Multiple Choice	60 minutes	15	N	Individual	Y
Short Answer	3 hours	20	N	Individual	Y
Short Answer	5 hours	25	N	Individual	Y
Final Exam	3 hours	40	Y	Individual	Y

Prescribed Texts

- Selvanathan, E. A., Selvanathan, S., & Keller, G. (2017). *Business statistics : Australia and New Zealand* (7th ed.). South Melbourne, Victoria: Cengage Learning

Teaching Periods

Autumn (2025)

Bankstown City

On-site

Subject Contact Neil Hopkins (<https://directory.westernsydney.edu.au/search/name/Neil Hopkins/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=MATH1030_25-AUT_BK_1#subjects)

Campbelltown

On-site

Subject Contact Neil Hopkins (<https://directory.westernsydney.edu.au/search/name/Neil Hopkins/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=MATH1030_25-AUT_CA_1#subjects)

Parramatta City - Macquarie St

On-site

Subject Contact Neil Hopkins (<https://directory.westernsydney.edu.au/search/name/Neil Hopkins/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=MATH1030_25-AUT_PC_1#subjects)

Parramatta External

Online

Subject Contact Neil Hopkins (<https://directory.westernsydney.edu.au/search/name/Neil Hopkins/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=MATH1030_25-AUT_PX_2#subjects)

Sydney City Campus - Term 1 (2025)

Sydney City

On-site

Subject Contact Antoinette Cevenini (<https://directory.westernsydney.edu.au/search/name/Antoinette Cevenini/>)

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WSU Online TRI-2 (2025)

Ws Online

Online

Subject Contact Neil Hopkins (<https://directory.westernsydney.edu.au/search/name/Neil Hopkins/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=MATH1030_25-OT2_OW_2#subjects)

Sydney City Campus - Term 2 (2025)

Sydney City

On-site

Subject Contact Antoinette Cevenini (<https://directory.westernsydney.edu.au/search/name/Antoinette Cevenini/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=MATH1030_25-SC2_SC_1#subjects)

Spring (2025)

Bankstown City

On-site

Subject Contact Neil Hopkins (<https://directory.westernsydney.edu.au/search/name/Neil Hopkins/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=MATH1030_25-SPR_BK_1#subjects)

Campbelltown

On-site

Subject Contact Neil Hopkins (<https://directory.westernsydney.edu.au/search/name/Neil Hopkins/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=MATH1030_25-SPR_CA_1#subjects)

Parramatta City - Macquarie St

On-site

Subject Contact Neil Hopkins (<https://directory.westernsydney.edu.au/search/name/Neil Hopkins/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=MATH1030_25-SPR_PC_1#subjects)

Surabaya Semester 1 (2025)

Surabaya

On-site

Subject Contact Neil Hopkins (<https://directory.westernsydney.edu.au/search/name/Neil Hopkins/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=MATH1030_25-IS1_SU_1#subjects)

Sydney City Campus - Term 3 (2025)

Sydney City

On-site

Subject Contact Antoinette Cevenini (<https://directory.westernsydney.edu.au/search/name/Antoinette Cevenini/>)

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