

MATH 1030 STATISTICS FOR BUSINESS

Credit Points 10

Legacy Code 200032

Coordinator Neil Hopkins ([https://directory.westernsydney.edu.au/search/name/Neil Hopkins/](https://directory.westernsydney.edu.au/search/name/Neil%20Hopkins/))

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 |
|-----------------|---|---------|-----------|---------------------------|
| Multiple Choice | 60 minutes | 15 | N | Individual |
| Short Answer | 3 hours | 20 | N | Individual |
| Short Answer | 1.5 hours (Over 5 weeks each 30 minutes) | 25 | N | Group |
| Final Exam | 90 minutes | 40 | 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 |
|-----------------|------------|---------|-----------|---------------------------|
| Multiple Choice | 60 minutes | 15 | N | Individual |
| Short Answer | 3 hours | 30 | N | Individual |
| Short Answer | 5 hours | 25 | N | Individual |
| Short Answer | 3 hours | 30 | Y | Individual |

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

Sydney City Campus Term 1

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 |
|-----------------|---|---------|-----------|---------------------------|
| Multiple Choice | 60 minutes | 15 | N | Individual |
| Short Answer | 3 hours | 30 | N | Individual |
| Short Answer | 1.5 hours (Over 5 weeks each 30 minutes) | 25 | N | Group |
| Short Answer | 90 minutes | 30 | Y | Individual |

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

WSU Online TRI-1 (2024)

Wsu Online

Online

Subject Contact Neil Hopkins ([https://directory.westernsydney.edu.au/search/name/Neil Hopkins/](https://directory.westernsydney.edu.au/search/name/Neil%20Hopkins/))

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=MATH1030_24-OT1_OW_2#subjects)

Autumn (2024)

Bankstown City

On-site

Subject Contact Neil Hopkins ([https://directory.westernsydney.edu.au/search/name/Neil Hopkins/](https://directory.westernsydney.edu.au/search/name/Neil%20Hopkins/))

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Campbelltown

On-site

Subject Contact Neil Hopkins ([https://directory.westernsydney.edu.au/search/name/Neil Hopkins/](https://directory.westernsydney.edu.au/search/name/Neil%20Hopkins/))

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Parramatta City - Macquarie St

On-site

Subject Contact Neil Hopkins ([https://directory.westernsydney.edu.au/search/name/Neil Hopkins/](https://directory.westernsydney.edu.au/search/name/Neil%20Hopkins/))

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Parramatta External

Online

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Sydney City Campus - Term 1 (2024)

Sydney City

On-site

Subject Contact Antoinette Cevenini ([https://directory.westernsydney.edu.au/search/name/Antoinette Cevenini/](https://directory.westernsydney.edu.au/search/name/Antoinette%20Cevenini/))

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Sydney City Campus - Term 2 (2024)

Sydney City

On-site

Subject Contact Antoinette Cevenini ([https://directory.westernsydney.edu.au/search/name/Antoinette Cevenini/](https://directory.westernsydney.edu.au/search/name/Antoinette%20Cevenini/))

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=MATH1030_24-SC2_SC_1#subjects)

Spring (2024)

Bankstown City

On-site

Subject Contact Neil Hopkins ([https://directory.westernsydney.edu.au/search/name/Neil Hopkins/](https://directory.westernsydney.edu.au/search/name/Neil%20Hopkins/))

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=MATH1030_24-SPR_BK_1#subjects)

Campbelltown

On-site

Subject Contact Neil Hopkins ([https://directory.westernsydney.edu.au/search/name/Neil Hopkins/](https://directory.westernsydney.edu.au/search/name/Neil%20Hopkins/))

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Parramatta City - Macquarie St

On-site

Subject Contact Neil Hopkins ([https://directory.westernsydney.edu.au/search/name/Neil Hopkins/](https://directory.westernsydney.edu.au/search/name/Neil%20Hopkins/))

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Surabaya Semester 1 (2024)

Surabaya

On-site

Subject Contact Neil Hopkins ([https://directory.westernsydney.edu.au/search/name/Neil Hopkins/](https://directory.westernsydney.edu.au/search/name/Neil%20Hopkins/))

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=MATH1030_24-IS1_SU_1#subjects)

WSU Online TRI-3 (2024)

Wsu Online

Online

Subject Contact Rosalind Priestman ([https://directory.westernsydney.edu.au/search/name/Rosalind Priestman/](https://directory.westernsydney.edu.au/search/name/Rosalind%20Priestman/))

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=MATH1030_24-OT3_OW_2#subjects)

Sydney City Campus - Term 3 (2024)

Sydney City

On-site

Subject Contact Antoinette Cevenini ([https://directory.westernsydney.edu.au/search/name/Antoinette Cevenini/](https://directory.westernsydney.edu.au/search/name/Antoinette%20Cevenini/))

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=MATH1030_24-SC3_SC_1#subjects)