Study Abroad and Exchange at UTS: Data Analytics

Choose either three or four subjects to design your own Data Analytics program. Select from more than one faculty area or specialisation. This guide shows subjects for the following faculties:

- Business – Undergraduate
- Business – Postgraduate
- Engineering – Undergraduate
- Information Technology – Undergraduate
- Science – Undergraduate
- Science – Postgraduate
- Analytics and Data Science – Postgraduate

When can I study?

Study abroad and Exchange is available:

<table>
<thead>
<tr>
<th>Period</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>February – June</td>
<td>A: Autumn Session</td>
</tr>
<tr>
<td>July – November</td>
<td>S: Spring Session</td>
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</tbody>
</table>

Please note:

- In Australia, **Autumn Session** occurs in the first half of the year. **Spring Session** occurs in the second half of the year.
- Some of the subjects in this guide may have prerequisites. If you apply for a subject with one or more prerequisites, you will need to demonstrate that you have the prior skills and knowledge necessary to undertake the subject. Please check the access conditions before selecting a subject.
- Most subjects are offered in both sessions, except where indicated A or S. Please check the timetable in case of a change.
- Undergraduate students are not normally permitted to study postgraduate subjects.

Further Details:

- For details on subjects, including prerequisites, refer to the UTS Handbook: [www.handbook.uts.edu.au](http://www.handbook.uts.edu.au)
- For availability of subjects, check the timetable at [https://www.uts.edu.au/current-students/timetable/uts-timetable-planner](https://www.uts.edu.au/current-students/timetable/uts-timetable-planner)
- To find out more about UTS Study Abroad and Exchange programs, visit: [https://www.uts.edu.au/future-students/international/study-abroad-and-exchange-students/welcome](https://www.uts.edu.au/future-students/international/study-abroad-and-exchange-students/welcome)
- For general enquiries contact: T: (+612) 9514 7915, E: studyabroad.exchange@uts.edu.au

Key: (Information included: Subject Number, Subject Name, Level and Session offered)

- L1 (Level 1) Usually undertaken in first year (similar to 100 level, introductory level)
- L2 (Level 2) Usually undertaken in second year (similar to 200 level, prior knowledge is required)
- L3 (Level 3) Usually undertaken in third year (similar to 300 level, advanced level)
Business – Undergraduate

**22576** Business Analytics L2 A or S

Engineering - Undergraduate

**48023** Programming Fundamentals L1 A or S
**48221** Engineering Computations L1 A or S
**48024** Applications Programming* L2 A or S

Information Technology - Undergraduate

**31250** Introduction to Data Analytics L1 A or S
**41040** Introduction to Artificial Intelligence L1 S
**42028** Deep Learning and Convolutional Neural Network L2 A
**41170** Introduction to Quantum Computing L2 A
**31256** Image Processing and Pattern Recognition L2 S
**31005** Machine Learning L2 S

Science - Undergraduate

**33130** Mathematics 1 L1 A or S
**35010** Foundation Mathematics L1 A or S
**33116** Statistical Design and Analysis L1 A
**37252** Regression and Linear Models L2 A or S
**35255** Forensic Statistics L2 S
**37357** Generalised Linear Models L2 S
**37356** Statistical Design and Models for Evaluation Studies L3 A

Business – Postgraduate

**21946** Supply Chain Management Analytics L2 A
**24750** Marketing Analytics L2 A
**21745** Services and Network Productivity with Data Analytics L1 S
**25752** Bank Lending and Analytics L2 A or S

Information Technology – Postgraduate

**42913** Social and Information Network Analysis L2 A
**32513** Advanced Data Analytics Algorithms L2 S

Science – Postgraduate

**37262** Mathematical Statistics L2 A
**37356** Statistical Design and Models for Evaluation Studies L2 A
**37242** Introduction to Optimisation L2 A
**37161** Probability and Random Variables L2 S
**37459** Multivariate Data Analysis L2 S
**37253** Sample Surveys L2 S

Analytics and Data Science – Postgraduate

**36100** Data Science for Innovation L1 A or S
**36106** Machine Learning Algorithms and Applications L1 A
**36104** Data Visualisation and Narratives L1 A
**36103** Statistical Thinking for Data Science L1 S
**36102** iLab 1 L1 S
**36109** Data and Decision Making L1 S
**36105** iLab 2 L2 S