The Graduate Certificate in Data Science covers the foundational skills of data science as applied in computer science, economics and mathematics. It also includes programming, statistics and data systems. Completing these courses will give you a strong foundation and advanced knowledge in data science that are increasingly in high demand.

Study for the Graduate Certificate is fully online and features four courses which can be completed in 8 months. UNSW's online learning environment has been designed to seamlessly fit into your busy schedule and you'll be able to access course resources on any device, at any time.

This program also gives you a pathway to study the Graduate Diploma in Data Science and Master of Data Science.

Learning outcomes

PLO 1. Apply in depth knowledge of statistics, computer science, applied mathematics and business strategies, in data preparation, manipulation, analysis and interpretation.

PLO 2. Prepare, analyse, interpret and present data to inform business decision making.

PLO 3. Collaborate effectively in disciplinary and interdisciplinary teams.

PLO 4. Demonstrate cultural, professional and ethical competence to become a responsible Date Scientist and a global citizen.

PLO 5. Apply enquiry-based learning, including, analysis and critical thinking, reflection and problem solving, to become a lifelong learner and an innovative and self-directed professional.

PLO 6. Communicate effectively in written and oral formats to engage specialist and non-specialist audiences.
Graduate capabilities
For more information on Graduate Capabilities, please click on this link.

Program structure
Students must complete 24 UOC as a standalone program.

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course</th>
<th>UOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZZEN9021</td>
<td>Principles of Programming</td>
<td>6</td>
</tr>
<tr>
<td>ZZSC9001</td>
<td>Foundations of Data Science</td>
<td>6</td>
</tr>
<tr>
<td>ZZSC5905</td>
<td>Statistical Inference of Data Scientists</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>One of the following:</td>
<td></td>
</tr>
<tr>
<td>ZZEN9311</td>
<td>Database Systems</td>
<td>6</td>
</tr>
<tr>
<td>ZZBU5611</td>
<td>Strategic Decision Making</td>
<td>6</td>
</tr>
</tbody>
</table>

Enrolment Disclaimer
Unless advised otherwise by your program authority, you should follow the rules for the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.

Admission requirements

Entry Requirements
Have completed at a minimum an undergraduate degree in Data Science or cognate discipline (e.g., Computer Science, Economics, Mathematics, Statistics).
OR
Have completed an undergraduate degree in a non-cognate discipline AND have sufficient Data Science background as indicated by an average of 65 or above across three Level III courses in Mathematics and/or Statistics and/or Computer Science and/or Econometric
OR
Have completed at a minimum an undergraduate degree in a non-cognate discipline AND have sufficient Data Science background as indicated by at least two years of experience in a data science or data analytics role

Program Requirements
Students in the Graduate Certificate can transfer to the Graduate Diploma or the Masters degree according with the UNSW Academic Progression Procedure. For more information on university policy on progression requirements please visit Academic Progression.

Pathways
Articulation pathways exist to the Graduate Diploma in Data Science (5646) and Master of Data Science (8646) if this program is completed with a minimum WAM of 65.
Additional information

Further Information
Please note that these requirements may be subject to change. Students are advised to follow requirements according to the year they commenced.

Timetables

Contact
Contact UNSW Online’s Student Enrolment Advisors
E: future-student@studyonline.unsw.edu.au
Ph: 1300 974 990
W: https://studyonline.unsw.edu.au/contact

Program fees
At UNSW fees are generally charged at course level and therefore dependent upon individual enrolment and other factors such as student's residency status. For generic information on fees and additional expenses of UNSW programs, click on one of the following:

Domestic Students
International Students