Double Degree

Advanced Mathematics (Honours) / Commerce

3523  |  240 Units of Credit

Overview

The Bachelor of Commerce/Bachelor of Science (Advanced Mathematics) (Honours) (BCom/BSc (Adv Math) (Hons)) is a 5 year dual degree program which will meet the needs of students wanting an advanced program of study in mathematics or statistics, complemented with a strong, focused and highly regarded business course.
Faculty
Faculty of Science
UNSW Business School

Campus
Kensington

Study Level
Undergraduate

Typical duration
5 Years

Intake Period
Term 1, Term 3

Academic Calendar
3+ Calendar

Minimum Units of Credit
240

Award(s)
Bachelor of Science (Advanced Mathematics) (Honours) -
BSc(AdvMath)(Hons)
Bachelor of Commerce -
BCom

UAC Code
424200

CRICOS Code
088857A
Learning Outcomes

3956 - Advanced Mathematics (Honours)

1. Capability and motivation for intellectual development; including capacity for creativity, critical evaluation, entrepreneurship and demonstrating a commitment to their own learning, motivated by personal autonomy, accountability, curiosity and an appreciation of the value of learning.

   Scholars  Leaders  Professionals

2. Effective and appropriate communication in both professional (intra and interdisciplinary) and social (local and international) contexts.

   Global Citizens  Leaders

3. Information literacy including the ability to make appropriate and effective use of information and information technology relevant to their discipline.

   Global Citizens  Professionals

4. Research, enquiry and high level analytical thinking abilities including the ability to construct new concepts or create new understanding through the process of enquiry, critical analysis and problem solving, including constructing a research project, that demonstrates technical skills in research and design.

   Professionals  Scholars

5. Independently identify and formulate solutions to complex problems with intelligence, initiative and judgement in scholarship that demonstrates advanced knowledge and critical thinking of the underlying principles and concepts in Mathematics and Statistics, and knowledge of research principles and methods.

   Scholars  Professionals

6. Teamwork, collaborative and management skills including the ability to recognise opportunities and contribute positively to collaborative scientific research, and to demonstrate a capacity for self management, teamwork, leadership and decision making based on open-mindedness, objectivity and reasoned analysis in order to achieve common goals and further the learning of themselves and others.

   Global Citizens  Leaders  Scholars

7. Appreciation and respect of the social, cultural and global context of science with an ability to communicate across cultures and to develop an international professional network.

   Global Citizens

8. Ethical, social and professional understanding including the ability to critically
reflect upon broad ethical principles and codes of conduct in order to behave consistently with a personal respect and commitment to ethical practice and social responsibility, multicultural, cultural and personal diversity.

Leaders Global Citizens

3502 - Commerce

1. Business knowledge: Students will make informed and effective selection and application of knowledge in a discipline or profession, in the contexts of local and global business.

Professionals Scholars Global Citizens Leaders

2. Problem solving: Students will define and address business problems, and propose effective evidence-based solutions, through the application of rigorous analysis and critical thinking.

Global Citizens Scholars Leaders Professionals

3. Business communication: Students will harness, manage and communicate business information effectively using multiple forms of communication across different channels.

Professionals Global Citizens Scholars Leaders

4. Teamwork: Students will interact and collaborate effectively with others to achieve a common business purpose or fulfil a common business project, and reflect critically on the process and the outcomes.

Leaders Global Citizens Scholars

5. Responsible business practice: Students will develop and be committed to responsible business thinking and approaches, which are underpinned by ethical professional practice and sustainability considerations.

Global Citizens Professionals

6. Global and cultural competence: Students will be aware of business systems in the wider world and actively committed to recognise and respect the cultural norms, beliefs and values of others, and will apply this knowledge to interact, communicate and work effectively in diverse environments.

Global Citizens Leaders

7. Leadership development: Students will develop the capacity to take initiative, encourage forward thinking and bring about innovation, while effectively influencing others to achieve desired results.

Scholars Leaders
Graduate Capabilities:

For more information on Graduate Capabilities, please click on this [link](#).
Stand Alone Programs

Click on the link below to find out more about each individual program.

Program 3956
Advanced Mathematics (Honours)

Program 3502
Commerce
Double Degree Structure

Students must complete 240 UOC.

Bachelor of Advanced Mathematics (Honours) (144 UOC)
1. An approved Advanced Mathematics (Honours) major and
2. SCIF1131;
3. 48 units of credit Honours Year; and
4. Science elective courses

Bachelor of Commerce (96 UOC)
1. Compulsory core courses (24 UOC)
2. Flexible core courses (24 UOC)
3. Major requirements (48 UOC)

Major Specialisation Requirements

3956 - Advanced Mathematics (Honours)
Students must complete at least one of the specialisations below.

MAJOR:

MATHA1 | 90 UOC
Applied Mathematics

MATHP1 | 90 UOC
Pure Mathematics

MATHU1 | 90 UOC
Advanced Statistics

Honours Specialisation Requirements

3956 - Advanced Mathematics (Honours)
Students must complete at least one of the specialisations below.

HONOURS:

MATHAH | 48 UOC
Business Majors

3502 - Commerce

Major Requirements: 48 UOC in an approved disciplinary stream containing at least 18 UOC at level 3. (Note that the 48 UOC includes the first disciplinary course(s) in the Core (Compulsory or Flexible). This means that, for the majority of majors, students will complete 42 UOC in specified disciplinary courses outside the core, (except for the Real Estate Studies major.)

Please Note:
- The Business Law major (TABLE1) is not available to students enrolled in 4733 Commerce/Law.
- Commerce/Education (secondary) 3462 students can only choose one major from:
  (a) Business Economics
  (b) Financial Economics
  (c) Business Strategy and Economic Management

MAJOR:

ACCT1  |  48 UOC
Accounting

COMMF1  |  48 UOC
Real Estate Studies

COMMJ1  |  48 UOC
Business Analytics

ECONF1  |  48 UOC
Business Economics
<table>
<thead>
<tr>
<th>Code</th>
<th>Hours</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON1</td>
<td>48</td>
<td>Business Strategy &amp; Econ Mngmt</td>
</tr>
<tr>
<td>ECONJ1</td>
<td>60</td>
<td>Financial Economics</td>
</tr>
<tr>
<td>FINSA1</td>
<td>48</td>
<td>Finance</td>
</tr>
<tr>
<td>FINSR1</td>
<td>48</td>
<td>Financial Technology</td>
</tr>
<tr>
<td>IBUSA1</td>
<td>48</td>
<td>International Business</td>
</tr>
<tr>
<td>INFSA1</td>
<td>48</td>
<td>Information Systems</td>
</tr>
<tr>
<td>MARKA1</td>
<td>48</td>
<td>Marketing</td>
</tr>
<tr>
<td>MGMTA1</td>
<td>48</td>
<td>Management</td>
</tr>
<tr>
<td>MGMTH1</td>
<td>48</td>
<td>Human Resource Management</td>
</tr>
<tr>
<td>TABLA1</td>
<td>48</td>
<td>Business Law</td>
</tr>
<tr>
<td>TABLC1</td>
<td>48</td>
<td>Taxation</td>
</tr>
</tbody>
</table>

**Level 1 Core Course**
Students must take the following course.

**SCIF1131 | 6 UOC**
Introductory Skills for Science

---

**Business Core Courses**

3502 - Commerce

Students must take 24 UOC of the following courses.

Please Note:
- Students in program Engineering, Advanced Mathematics, Science, Advanced Science and Computer Science combined with Commerce are not required to take ECON1203, as the requirements are being fulfilled by MATH courses within the non-commerce side of these programs. Hence students must complete another 6 UOC of UNSW Business School electives to fulfil the requirement for 96 UOC of UNSW Business School courses within this double degree.
- Students should select the MATH or PSYC course required for their Science major. If a Science major does not require a MATH or PSYC course (for example the Pathology and Vision Science majors) or if the Science major does not require one of the statistics courses listed above, students should complete ECON1203. MATH and PSYC count towards Science and ECON1203 count towards Commerce. If you have completed a Science course that excludes ECON1203, then you will need to study another 6UOC of UNSW Business School elective in order to meet the 96UOC from the Business School requirement.

**ACCT1501 | 6 UOC**
Accounting and Financial Management 1A

**ECON1101 | 6 UOC**
Microeconomics 1

**ECON1203 | 6 UOC**
Business and Economic Statistics

**MGMT1001 | 6 UOC**
Managing Organisations and People
Flexible Core Courses

3502 - Commerce

Student must take at least 24 UOC of the following courses.

Please note:
- Commerce/Law 4733 student are not permitted to take TABL1710. Please choose another flexible core.
- Commerce/Media (PR and Advertising) 3559, MARK1012 is a shared course between B com and B media, by default, MARK1012 will always count towards the Commerce component and students will need to complete another Media elective to make up the required UOC for the Media component study.

ACCT1511 | 6 UOC  
Accounting and Financial Management 1B

COMM1000 | 6 UOC  
Creating Social Change: From Innovation to Impact

ECON1102 | 6 UOC  
Macroeconomics 1

FINS1613 | 6 UOC  
Business Finance

INFS1602 | 6 UOC  
Digital Transformation in Business

MARK1012 | 6 UOC  
Marketing Fundamentals

MGMT1101 | 6 UOC  
Global Business Environment

TABL1710 | 6 UOC  
Business and the Law

Business Free Electives
3502 - Commerce

Student must complete 6 - 18 UOC Business free electives dependant on their major to meet minimum 96 UOC Commerce program requirement.

*any course offered by UNSW Business School*

**Level 2 Maturity Requirements**

3956 - Advanced Mathematics (Honours)

Students may commence Level 2 courses upon successful completion of 30 UOC of Level 1 courses.

*any level 2 course*

**Level 3 Maturity Requirements**

3956 - Advanced Mathematics (Honours)

Students may commence Level 3 courses upon successful completion of 72 UOC.

*any level 3 course*

**Maximum Level 1 UOC**

3956 - Advanced Mathematics (Honours)

A maximum of 72 UOC of Level 1 courses can be taken, including any General Education or mainstream Level 1 course taken to fulfil either the General Education or the Free Elective requirement.

*any level 1 course*

**Minimum Level 1 Science Courses**

3956 - Advanced Mathematics (Honours)

Students must complete a minimum of 24 UOC of the following courses.

*any level 1 Anatomy course*

*any level 1 Computer Science course*
any level 1 Food Technology course

any level 1 course offered by Faculty of Science

any level 1 Neuroscience course

any level 1 Pathology course

any level 1 Pharmacology course

any level 1 Physiology course

Minimum Level 3 Science Courses

3956 - Advanced Mathematics (Honours)

Students must complete a minimum of 30 UOC of the following courses.

any level 3 Anatomy course

any level 3 Computer Science course

any level 3 Food Technology course

any level 3 course offered by Faculty of Science

any level 3 Neuroscience course

any level 3 Pathology course

any level 3 Pharmacology course

any level 3 Physiology course

any level 3 Medical Science course
**Maximum Level 1 UOC**

3502 - Commerce

Students may complete up to a maximum of 60 UOC of level 1 courses for the Commerce component of the double degree.

*any course offered by UNSW Business School*

**Minimum Faculty UOC**

3502 - Commerce

Students must complete a minimum of 96 UOC of the following courses.

*any course offered by UNSW Business School*

**Major Course Substitution**

3523 - Advanced Mathematics (Honours) / Commerce

For any majors that require ECON1202, MATH1011/MATH1031/MATH1131/MATH1141/MATH1151 completed under the Advanced Maths (Hons) component will act as a substitute so in these cases a student should not do ECON1202 but instead complete another Major elective to meet the 48UOC requirement.

**Major Declaration**

3956 - Advanced Mathematics (Honours)

Students must complete exactly one approved Bachelor of Science (Advanced Mathematics) (Honours) major, and this must be declared before enrolling in Level III courses. Students cannot undertake a double major in this program.

**LEVEL 2 AND 3 MATURITY REQUIREMENTS**

3502 - Commerce

Student must have completed 24 UOC before taking any level 2 courses.
Student must have completed 48 UOC before taking any level 3 courses.

Please read the Double Degree Program rules as some specific rules apply to
particular Double Degree combinations.

**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.
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
- Commonwealth Supported Students
- International Students
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions
© UNSW Sydney (CRICOS Provider No.: 00098G), 2019. The information contained in this Handbook is indicative only. While every effort is made to keep this information up-to-date, the University reserves the right to discontinue or vary arrangements, programs and courses at any time without notice and at its discretion. While the University will try to avoid or minimise any inconvenience, changes may also be made to programs, courses and staff after enrolment. The University may also set limits on the number of students in a course.

Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179