

BACHELOR OF APPLIED DATA SCIENCE

Master big data in three years with the Bachelor of Applied Data Science degree, or develop advanced technical expertise through an additional industry engagement year with the Advanced (Honours) program.

“In this data-dominated era, everything and everyone produces a digital paper trail. If businesses want to gain an edge, they need to be able to tap into those large, elusive data sets to make better decisions about how products are built, markets are found, clients and employees are supported, and sales are generated. Hence the need for data scientists.” – Forbes

If you're interested in mastering big data and helping others to understand it, this is the course for you.

Our Applied Data Science programs address the challenges that large and complex datasets present across research, industry and society.

As a key component of Monash's broader cross-faculty data science initiatives, these courses combine information technology and mathematics, enabling you to apply core skills to real-world projects through both group work and individual study.



For more information about the three year course, visit:
go.monash.edu/BApDataSc



For more information about the Advanced course, visit:
go.monash.edu/bads-adv

CAREERS

Analytics engineer	Data scientist
Business intelligence analyst	Database administrator
Data architect	Fraud analyst
Data mining engineer	Quantitative analyst
Data modeller	Machine learning engineer
Data operations analyst	Statistician
Data quality engineer	

INDUSTRIES

Banking, finance and insurance	Engineering and robotics
Biotechnology and pharmaceuticals	Government and public sector
Cybersecurity	Manufacturing
Digital humanities	Marketing and advertising
Energy, natural resources and utilities	Sports and gaming
	Telecommunications
	Urban planning and transport



“In an era defined by information, data science is the foundational language of discovery. Our programs are designed to transform curious minds into skilled architects of data, capable of extracting meaningful narratives from complexity. By integrating mathematical rigor with hands-on computational practice, we ensure our graduates don’t just observe the digital evolution – they lead it.”

DR HASAN FALLAHGOUL

Course Director, Bachelor of Applied Data Science and Bachelor of Applied Data Science - Advanced (Honours)

COURSE MAP

YEAR 1				
Semester 1	Data challenges 1	Programming	Mathematics	Applied studies
Semester 2	Data challenges 2	Data science	Mathematics	Applied studies
YEAR 2				
Semester 1	Data challenges 3	Data science	Mathematics	Applied studies
Semester 2	Data challenges 4	Data analysis	Mathematics	Applied studies
YEAR 3				
Semester 1	Mathematics	Mathematics	Elective	Elective
Semester 2	Data challenges 5 and 6 (internship)		Deep learning	Data analysis
YEAR 4 (HONOURS - FOR ADVANCED STUDENTS ONLY)				
Semester 1	Research methods	Data science	Elective	Elective
Semester 2	Industry research project			

APPLIED STUDIES

- Applied and statistical mathematics
- Astronomy
- Biological science and genetics
- Business analytics
- Chemical sciences
- Crime and society
- Cybersecurity
- Digital media
- Discrete mathematics
- Drugs and society: An introduction to pharmacology
- Economics
- Introduction to physiology
- Language and society
- Marketing science
- Physics
- Social research
- Software development

INTERNSHIP PARTNERS

- AIA
- AiLECS
- Altis Consulting
- APAC
- Baby Bunting
- Bunnings
- Bureau of Meteorology
- Coloplast ANZ
- CSIRO Atmospheric Research
- DiGiCOR
- HELLA Australia
- Make Data Useful
- Meandu
- Officeworks
- One Task
- St Kilda Football Club
- Tabcorp
- Tennis Australia

MEET OUR ALUMNI



MEHAK

Applied studies: Software development

Current position: Software engineer graduate at NAB

"The highlight of my Bachelor of Applied Data Science degree was the hands-on projects that have allowed me to apply theoretical concepts to real-world scenarios."



MARDI

Applied studies: Ecology and conservation biology

Current position: Senior data analyst at McGrathNicol

"I transferred to this course in my second year with no prior coding experience, and I’m graduating with employable skills, lifelong friends and confidence to begin creating meaningful impact within my chosen field of work."

The information in this flyer was correct at the time of publication (April 2026). Monash University reserves the right to alter this information should the need arise. You should always check with the relevant Faculty office when considering a course. CRICOS Provider: Monash University 00008C. Monash College 01857J. Produced by Monash Science.