

MASTER OF HEALTH DATA ANALYTICS

JOIN OUR NEWEST MASTERS DEGREE OFFERING

Take a deep dive into the intersection of biostatistics, health data and machine learning with this cross-Faculty course that focuses on the role of data analytics in driving improvements to health outcomes and efficiencies to health service providers and planners.

The field of Health Data Analytics is experiencing a jobs boom, and is filled with diverse and well-remunerated opportunities.

The COVID-19 pandemic and growing exposure to machine learning and statistical models in everyday life has highlighted the possibilities offered by big data and technology to health. Health Data Analysts help health stakeholders ensure the masses of data available are used to full potential, transforming healthcare in the process.

This cross-disciplinary course provides knowledge and skills that'll help you apply quantitative skills to some of healthcare's biggest challenges.

In the Master of Health Data Analytics you will:

- Gain a strong understanding of biostatistics, epidemiological principles and statistical software
- Learn about health systems, relevant data sets and their applications to health.
- Understand the role of technology including AI and machine learning in healthcare
- Gain skills around programming, modelling and data visualisation
- Complete a small project relevant to the field

COURSE STRUCTURE

| Part A | Part B | Part C |
|--------------------|-------------------------------|-------------------------------|
| Advanced expertise | Applied health data analytics | Health data analytics streams |

Students will have the opportunity to engage in a small practical research project. This may involve being embedded into a large ongoing research project, or a specially created individual project.

Course code

M6036

Study mode

Multi-modal: Blend of online and on-campus learning, located at The Alfred Campus and Clayton Campus.

Intakes

First semester: March

Durations

Full time: 2 years

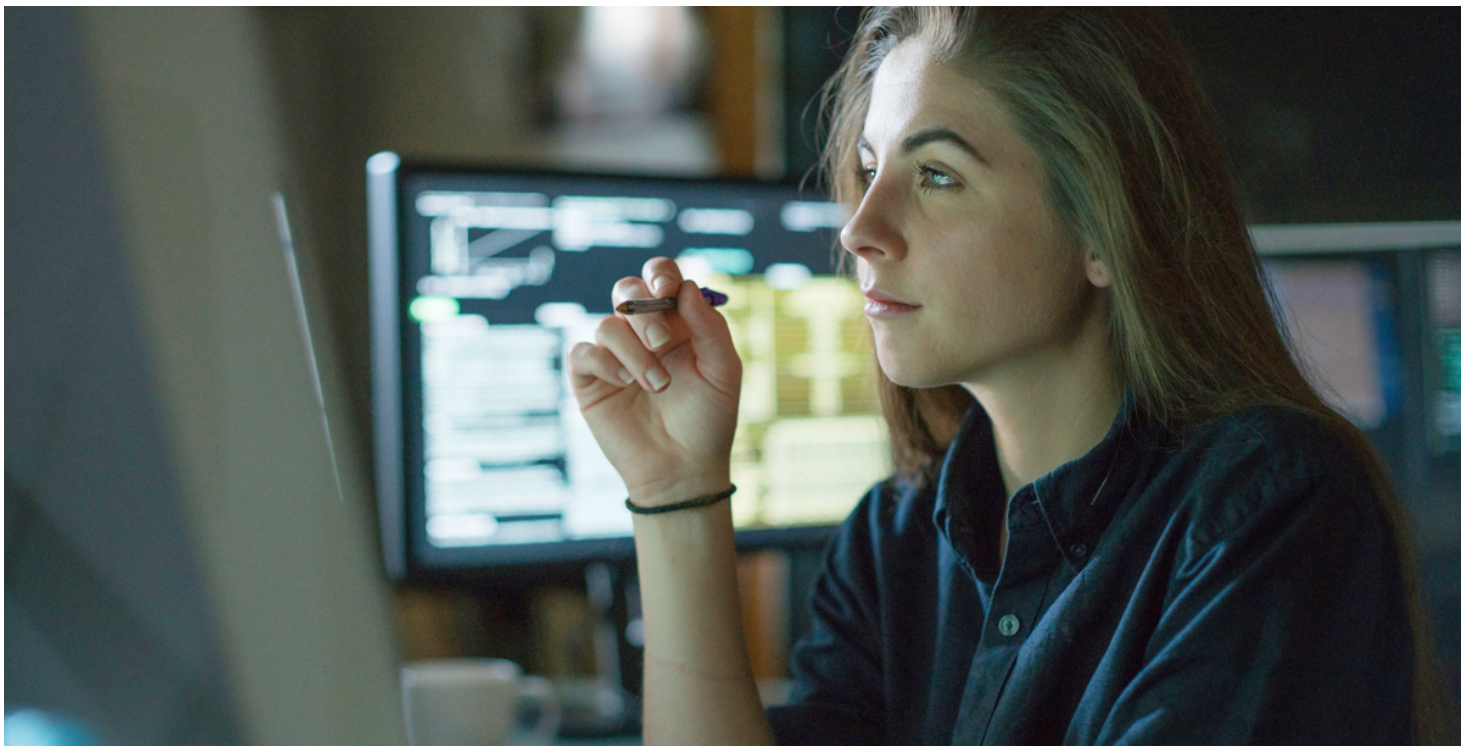
Part time: 4 years



"The ability to locate and interrogate large health datasets allows you to answer some really diverse and important health questions. I've applied my knowledge to questions around road trauma outcomes, and to help improve the National Disability Insurance Scheme."

Dr Melita Giummarra

Health Data Researcher and Director of Research Programs at the National Disability Insurance Agency



ENTRY REQUIREMENTS

This course is ideal for recent graduates or mature-age students with an interest in quantitative skills and health. Successful applicants require an Australian bachelor degree or equivalent in a non-cognate discipline with at least a Weighted Average Mark (WAM) of 60 per cent, or an equivalent GPA or qualification and experience approved by the Faculty.

LEARN FROM EXPERTS

Course lecturers are drawn from experts across Monash's School of Public Health and Preventive Medicine, Faculty of Information Technology, and Faculty of Business and Economics. This unique blend of expertise sets us apart from other courses offered in Australia.

CAREER OPPORTUNITIES

The Master of Health Data Analytics is designed to meet the high demand for data analysts to tackle real-world health challenges, such as quantifying the effectiveness of new treatments for research or pharmaceutical companies, implementing sophisticated modelling of patient outcomes and pathways, and developing algorithms for diagnostic imaging classification.

Graduates may find themselves working across government health departments, health services, academia and/or industry.

Exciting projects relying on the skills of Health Data Analysts include the development and implementation of algorithms for diagnostic imaging classification, as used in radiology and pathology, that may improve turnaround times and reduce system wastage. Predictive modelling of Medicare or private health insurance claims allows governments and insurers to plan around future usage.



We're excited to welcome our first cohort to this new course, offering a unique blend of expertise across machine learning, biostatistics, and health. It meets a need in the jobs market for people able to harness big data and technology to drive improvements to health and healthcare.

Prof Andrew Forbes
Course Co-convenor

LEARN MORE

For further information, including entry requirements, fees and scholarships, visit study.monash or contact:

FUTURE STUDENT ENQUIRIES

T +61 3 9902 6011
<https://www.monash.edu/students/support/connect/contact-us>