# MASTER OF BUSINESS INFORMATION SYSTEMS (MBIS)

CRICOS code: 079053A

- Ranked top 100 in the world for Information Systems (QS World University Rankings by subject 2018)

## MONASH UNIVERSITY IS RANKED:

- 60 in the world universities (QS World University Rankings 2018)
- 80 in the world universities (Times Higher Education World University Rankings 2018)
- 78 in the world (Academic Ranking of World Universities 2017)

## CAREER OUTCOMES

- Business Analyst
- Systems Analyst
- Consultant
- Project Leader
- IT Manager
- Information Management Specialist
- Archivist or Librarian

## AREAS OF EXPERTISE

- Business intelligence
- Enterprise systems
- Information systems design
- IT strategy and management
- Knowledge management
- Librarianship and information science
- Project management

### AFTER COMPLETING

**FIT5057** Project management students are able to sit for either the:

- Certified Associate in Project Management (CAPM), or
- Project Management Professional (PMP) exam, with the Project Management Institute (PMI) at no charge

## INTAKES

February and July

## ENTRY REQUIREMENTS

### ACADEMIC QUALIFICATION

Depending upon your prior qualifications and experience you will be eligible for entry credit which reduces the duration of the program.

- **2 years –** Bachelor's degree in any field
- **1.5 years –** Bachelor's degree in a related field OR Bachelor's degree in any field + expertise in a relevant field
- **1 year –** Bachelor's degree in a related field OR Bachelor's degree in any field + expertise in a relevant field
- Monash University Pass average

### ENGLISH REQUIREMENTS

**IELTS/TOEFL**

IELTS: 6.5 overall and no other band less than 6.0

TOEFL iBT: 79 overall, 21 writing, 13 reading, 12 listening, 18 speaking

**Not enough score for direct entry?**

Apply for the Monash Bridging Program

### FURTHER INFORMATION

monashcollege.edu.au/courses/english/monash-english-bridging

## COURSE STRUCTURE

### 4 FOUNDATION UNITS

**FIT9123** Introduction to business information systems
**FIT9130** Systems analysis and design
**FIT9131** Foundations of programming
**FIT9132** Introduction to databases

### 1 CORE UNIT

**FIT5057** Project management

### 5 UNITS SELECTED FROM:

**FIT5088** Information and knowledge management systems
**FIT5094** IT for management decision making
**FIT5097** Business intelligence modelling
**FIT5101** Enterprise systems
**FIT5102** IT strategy and governance
**FIT5105** Information access and use
**FIT5106** Information organisation
**FIT5107** Managing business records
**FIT5111** Information systems development practices
**FIT5133** Enterprise architecture and management
**FIT5145** Introduction to data science
**FIT5146** Data curation and management
**FIT5152** User interface design and usability
**FIT5159** IT for financial decisions
**FIT5160** Business process modelling, design and simulation
**FIT5178** Applied project management
**FIT5180** Business and legal issues in project management
**FIT5194** Computer based global project management
**FIT5195** Business intelligence and data warehousing
**FIT5205** Data in society
**FIT5206** Digital continuity

### 2 ELECTIVE UNITS (FROM THE ABOVE LIST)

Or any Faculty of IT Level 5 units or Level 5 units offered by any other faculty of the University with course director approval.

### 4 MINOR THESIS RESEARCH UNITS

**FIT5125** IT research methods
**FIT5126** Masters thesis part 1
**FIT5127** Masters thesis part 2
**FIT5128** Masters thesis final

OR

### 4 INDUSTRY EXPERIENCE UNITS

**FIT5120** Industry experience studio project (equivalent of 2 units)
**FIT5122** Professional practice
One FIT Level 5 unit

### FURTHER INFORMATION

infotech.monash.edu/current/course-information/bis-pg-electives.html

## COURSE CODE

C6003

## DURATION

2 years, 1.5 years OR 1 year full time

## CAMPUS

Caulfield

## FEES PER YEAR

A$

## STUDY GRANT/ SCHOLARSHIPS

A$

## INDUSTRY EXPERIENCE

### INVOLVES

- Project work for real clients
- Professional practice training
- Small research project

## MORE INFORMATION

monash.edu/pubs/handbooks/courses/C6003.html

MONASH University

GROUP OF EIGHT AUSTRALIA

Produced by SMC Monash: 18P-0352. May 2018. CRICOS provider: Monash University 00008C.

# MASTER OF DATA SCIENCE

CRICOS code: 085349A

- Ranked top 100 in the world for Information Systems (QS World University Rankings by subject 2018)

## MONASH UNIVERSITY IS RANKED:

- 60 in the world universities (QS World University Rankings 2018)
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- 78 in the world (Academic Ranking of World Universities 2017)

## CAREER OUTCOMES

- Data Analyst
- Chief Data Officer
- Data scientist
- Quantitative analyst
- Quantitative researchers

## COURSE CODE

C6004

## INTAKES

February and July

## FEES PER YEAR

A$

## STUDY GRANT/ SCHOLARSHIPS

A$

## ENTRY REQUIREMENTS

### ACADEMIC QUALIFICATION

- **2 years –** Bachelor's degree in any field
- **1.5 years –** Bachelor's degree in a related field OR Bachelor's degree in any field + expertise in a relevant field
- **1 year –** Bachelor's degree in a related field OR Bachelor's degree in any field + expertise in a relevant field

From S1, 2019, MDS will require at least a 60% GPA for entry (up from 55%). Therefore, minimum credit (rather than pass), Monash equivalent.

### ENGLISH REQUIREMENTS

**IELTS/TOEFL**

IELTS: 6.5 overall and no other band less than 6.0

TOEFL iBT: 79 overall, 21 writing, 13 reading, 12 listening, 18 speaking

Not enough score for direct entry?

Apply for the Monash Bridging Program

### FURTHER INFORMATION

monashcollege.edu.au/courses/english/monash-english-bridging

## COURSE STRUCTURE

### 4 FOUNDATION UNITS

**FIT9133** Programming foundations in Python

**FIT9132** Introduction to databases

**MAT9004** Mathematical foundations for data science

And one of:

**FIT9123** Introduction to business information systems

**FIT9134** Computer architecture and operating systems

### 3 CORE UNITS

**FIT5145** Introduction to data science

**FIT5196** Data wrangling

**FIT5197** Modelling for data analysis

### 5 ELECTIVE UNITS

#### OPTION 1 – DATA SCIENCE STREAM

Four units from:

**FIT5097** Business intelligence modelling

**FIT5146** Data curation and management

**FIT5147** Data exploration and visualisation

**FIT5148** Distributed databases and big data

**FIT5149** Applied data analysis

**FIT5202** Data processing for big data

**FIT5205** Data in society

**FIT5206** Digital continuity

OR

#### OPTION 2 – ADVANCED DATA ANALYTICS STREAM

**FIT5147** Data exploration and visualisation

**FIT5148** Distributed databases and big data

**FIT5149** Applied data analysis

**FIT5201** Data analysis algorithms

AND

One approved data science elective

### 4 MINOR THESIS RESEARCH UNITS

**FIT5125** IT research methods

**FIT5126** Masters thesis part 1

**FIT5127** Masters thesis part 2

**FIT5128** Masters thesis final

OR

### 4 INDUSTRY EXPERIENCE UNITS

**FIT5120** Industry experience studio project (equivalent of 2 units)

**FIT5122** Professional practice

One unit from the approved Data Science elective list

## DURATION

2 years, 1.5 years OR 1 year full time

## CAMPUS

Caulfield

## INDUSTRY EXPERIENCE

### INVOLVES

- Project work for real clients
- Professional practice training
- Small research project

## MORE INFORMATION

monash.edu.au/pubs/handbooks/courses/C6004.html

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Produced by SMC Monash: 18P-0352. May 2018. CRICOS provider: Monash University 00008C.

# MASTER OF INFORMATION TECHNOLOGY (MIT)

CRICOS code: 079055K

- Ranked top 100 in the world for Information Systems (QS World University Rankings by subject 2018)

## MONASH UNIVERSITY IS RANKED:

- 60 in the world universities (QS World University Rankings 2018)
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- 78 in the world (Academic Ranking of World Universities 2017)

## CAREER OUTCOMES

- Software Engineer
- Data Architect
- Mobile Applications Developer
- Solution Architect

## AREAS OF EXPERTISE

- Data management technology
- Mobile and distributed systems
- Machine learning
- Software engineering
- Cloud and cybersecurity

## COURSE CODE

C6001

## INTAKES

February and July

## FEES PER YEAR

A$

## STUDY GRANT/ SCHOLARSHIPS

A$

## ENTRY REQUIREMENTS

### ACADEMIC QUALIFICATION

- **2 years –** Bachelor's degree in any field
- **1.5 years –** Bachelor's degree in a related field OR Bachelor's degree in any field + expertise in a relevant field
- **1 year –** Bachelor's degree in a related field OR Bachelor's degree in any field + expertise in a relevant field
- Monash University Pass average

### ENGLISH REQUIREMENTS

**IELTS/TOEFL**

IELTS: 6.5 overall and no other band less than 6.0

TOEFL iBT: 79 overall, 21 writing, 13 reading, 12 listening, 18 speaking

Not enough score for direct entry?

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### FURTHER INFORMATION

monashcollege.edu.au/courses/english/monash-english-bridging

## COURSE STRUCTURE

### 4 FOUNDATION UNITS

**FIT9131** Programming foundations in Java

**FIT9132** Introduction to databases

**FIT9134** Computer architecture and operating systems

**FIT9135** Data communications

### 2 CORE UNITS

**FIT5136** Software engineering

**FIT5057** Project management

### 4 UNITS SELECTED FROM:

**FIT5003** Software security

**FIT5032** Internet application development

**FIT5037** Network security

**FIT5042** Enterprise application development on the web

**FIT5046** Mobile and distributed systems

**FIT5047** Intelligent systems

**FIT5083** Network infrastructure

**FIT5133** Enterprise architecture and management

**FIT5137** Database analysis and processing

**FIT5138** Advanced software engineering

**FIT5139** Advanced distributed and parallel systems

**FIT5140** Advanced mobile systems

**FIT5141** Advanced topics in information technology

**FIT5142** Advanced data mining

**FIT5145** Introduction to data science

**FIT5148** Distributed databases and big data

**FIT5163** Information and computer security

**FIT5166** Information retrieval systems

**FIT5171** System validation and verification, quality and standards

**FIT5195** Business intelligence and data warehousing

**FIT5211** Algorithms and data structures

### 2 ELECTIVE UNITS (FROM THE ABOVE LIST)

Or any Faculty of IT Level 5 units or Level 5 units offered by any other faculty of the University with course director approval.

### 4 MINOR THESIS RESEARCH UNITS

**FIT5125** IT research methods

**FIT5126** Masters thesis part 1

**FIT5127** Masters thesis part 2

**FIT5128** Masters thesis final

OR

### 4 INDUSTRY EXPERIENCE UNITS

**FIT5120** Industry experience studio project (equivalent of 2 units)

**FIT5122** Professional practice

One FIT Level 5 unit

## DURATION

2 years, 1.5 years OR 1 year full time

## CAMPUS

Caulfield

## INDUSTRY EXPERIENCE

### INVOLVES

- Project work for real clients
- Professional practice training
- Small research project

## MORE INFORMATION

monash.edu.au/pubs/handbooks/courses/C6001.html

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Produced by SMC Monash: 18P-0352. May 2018. CRICOS provider: Monash University 00008C.

# MASTER OF NETWORKS AND SECURITY (MNS)

CRICOS code: 085538G

- Ranked top 100 in the world for Information Systems (QS World University Rankings by subject 2018)

## MONASH UNIVERSITY IS RANKED:

- 60 in the world universities (QS World University Rankings 2018)
- 80 in the world universities (Times Higher Education World University Rankings 2018)
- 78 in the world (Academic Ranking of World Universities 2017)

## CAREER OUTCOMES

- IT Security Engineer
- Network Based Applications Developer
- Secure Software Developer
- Cybersecurity Specialist
- Chief Information Security Officer

## AREAS OF EXPERTISE

- Secure software design and architecture
- System security analysis
- Penetration testing
- Enterprise security management
- Network architecture and design
- Network administration and management

## COURSE CODE

C6002

## DURATION

2 years or 1.5 years full time

## INTAKES

February and July

## CAMPUS

Caulfield

## FEES PER YEAR

A$

## STUDY GRANT/ SCHOLARSHIPS

A$

## ENTRY REQUIREMENTS

### ACADEMIC QUALIFICATION

- **2 years –** undergraduate degree in any field, with at least a 55% average, or qualification deemed by the faculty to be a satisfactory equivalent
- **1.5 years –** Undergraduate degree in a cognate discipline including computing, computer science, software engineering, computer systems, electrical, electronic or communication engineering with at least a 55% average, or qualification deemed by the faculty to be a satisfactory equivalent
- **1 year –** Bachelor's degree in a related field OR Bachelor's degree in any field + expertise in a relevant field
- Monash University Pass average

### ENGLISH REQUIREMENTS

**IELTS/TOEFL**

IELTS: 6.5 overall and no other band less than 6.0

TOEFL iBT: 79 overall, 21 writing, 13 reading, 12 listening, 18 speaking

Not enough score for direct entry?

Apply for the Monash Bridging Program

### FURTHER INFORMATION

monashcollege.edu.au/courses/english/monash-english-bridging

## COURSE STRUCTURE

### 4 FOUNDATION UNITS

**FIT9131** Programming foundations in Java
OR **FIT9133** Programming foundations in Python

**FIT9132** Introduction to databases

**FIT9134** Computer architecture and operating systems

**FIT9135** Data communications

### 2 CORE UNITS

**FIT5057** Project management

**FIT5163** Information and computer security

### 2 UNITS FROM NETWORKS STREAM AND 2 UNITS FROM SECURITY STREAM

#### NETWORKS

**FIT5010** Network protocol standards

**FIT5011** Network design and performance

**FIT5034** Quality of service and network management

**FIT5083** Network infrastructure

#### SECURITY

**FIT5003** Software security

**FIT5037** Network security

**FIT5124** Advanced topics in security

**FIT5129** Enterprise IT security – planning, operations and management

### 2 UNITS FROM NETWORKS STREAM OR SECURITY STREAMS

### 4 MINOR THESIS RESEARCH UNITS:

**FIT5125** IT research methods

**FIT5126** Masters thesis part 1

**FIT5127** Masters thesis part 2

**FIT5128** Masters thesis final

OR

### 4 INDUSTRY EXPERIENCE UNITS:

**FIT5120** Industry experience studio project (equivalent of 2 units)

**FIT5122** Professional practice

**FIT5136** Software Engineering

## INDUSTRY EXPERIENCE

### INVOLVES

- Project work for real clients
- Professional practice training
- Small research project

## MORE INFORMATION

monash.edu.au/pubs/handbooks/courses/C6002.html

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