

# Master of Building and Construction Information Management (ABM101.1)

Please note these are the 2024 details for this course

## Domestic students

Selection rank	PG
Delivery mode	On campus
Location	Bruce, Canberra
Duration	2.0 years
Faculty	Faculty of Arts and Design
Discipline	School of Design and the Built Environment
UAC code	880610
English language requirements	An IELTS Academic score of 6.5 overall, with no band score below 6.0 (or equivalent).

[View IELTS equivalences](#)

## International students

Academic entry requirements	To study at UC, you'll need to meet our academic entry requirements and any admission requirements specific to your course. Please read your course admission requirements below. To find out whether you meet UC's academic entry requirements, visit our <a href="#">academic entry requirements page</a> .
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[View UC's academic entry requirements](#)

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<b>Duration</b>	2.0 years
<b>Faculty</b>	Faculty of Arts and Design
<b>Discipline</b>	School of Design and the Built Environment
<b>CRICOS code</b>	108073H
<b>English language requirements</b>	An IELTS Academic score of 6.5 overall, with no band score below 6.0 (or equivalent). <a href="#">View IELTS equivalences</a>

# About this course

## Master BIM theory to unlock the future of construction

Unleash the endless possibilities of superior design integration, construction and project management approaches with UC's Master of Building and Construction Information Management (M-BCIM).

Crafted specifically for architects, building practitioners, construction engineers, project managers and built environment researchers, you'll learn the fundamental theories of BIM, use BIM technology-oriented resources, and strengthen your modelling, management, simulation and analysis skills. Building upon your foundational knowledge, you'll master the blueprint of construction innovation to become robust, adaptable and lead with the backing of advanced BIM research.

Be at the forefront of technology advancements in the digital built environment with access to study topics including Virtual Reality (VR), Augmented Reality (AR), digital twin laser scanning and Artificial Intelligence (AI). UC's focus on practical, real-world learning will connect you to industry, with state-of-the-art facilities that will ensure your skills are mastered upon graduation. Situated in Canberra, a city thriving with infrastructure expansion, now is the perfect time to take advantage of UC's unique master's degree in construction management.

## Study a Master of Building and Construction Information Management at UC, and you will:

- Learn how to use data from various fields to adjust BIM workflows in built environment enterprises.
- Design and implement digital 3D modelling and strategies appropriate to the design and construction phases of the built environment project lifecycle.
- Develop critical thinking, leadership, collaboration and problem-solving skills and apply these skills to strategic decision-making in BIM adoption and implementation.
- Recognise and explain how procurement, contracts and laws affect BIM processes.
- Develop academic research skills to analyse relevant literature and use ethical research methods.
- Conduct research and development into the technical and managerial practices used in construction projects and apply a range of BIM workflows to different scenarios.
- Gain specialised knowledge of BIM applications and processes and appropriately apply this knowledge to a range of BIM-based construction management practices.
- Adapt and apply various emerging digital technologies to solve complex problems within the modern built environment.

## State-of-the-art facilities

Gain an immersive advantage in the cutting-edge realm of UC's start-of-the-art BIM hub. As the first of its kind in Australia for digital transformation, you'll have access to engage and utilise Virtual Reality (VR) and Augmented Reality (AR) technologies to propel your existing knowledge and skills and expand your career possibilities.

Career opportunities

- BIM Manager
- BIM Engineer
- Senior Architect
- Project Manager
- Project Engineer
- Civil Engineer
- Construction Manager
- Construction Engineer
- Director

## Course-specific information

BIM Hub is the dedicated state-of-the-art facility including high-spec computers, 3D laser scanner, drone, VR and AR equipment and the full package of digital tools and software for the course's workshops and tutorials.

## Professional accreditation

None.

# Admission requirements

Completed tertiary undergraduate qualification in a relevant discipline (architecture, built environment, building and construction engineering and management, project management and civil engineering disciplines), as approved by the University.

## Additional admission requirements

The applicants for the flexible and fully online modes of the program are required to have a functional computer to apply BIM software packages and tools.

## Assumed knowledge

None.

## Periods course is open for new admissions

This course is not open for new admissions.

## Credit arrangements

There are currently no formal credit transfer arrangements for entry to this course. Any previous study or work experience will only be considered as part of the application process in accordance with current [course rules and university policy](#).

# Course requirements

## Master of Building and Construction Information Management (ABM101) | 48 credit points

### Required - Must pass 42 credit points as follows

[Expand All](#) | [Collapse All](#)

Management Information Systems G (9503) | 3 credit points – Level G

Introduction to Data Science G (11516) | 3 credit points – Level G

Technological Innovation and Entrepreneurship G (11530) | 3 credit points – Level G

Introduction to Building Information Modelling G (11805) | 3 credit points – Level G

Integrated Construction Procurement G (11806) | 3 credit points – Level G

Integrated Project Management G (11807) | 3 credit points – Level G

Building Information Modelling Technology G (11808) | 3 credit points – Level G

Built Environment Research Methods PG (11809) | 3 credit points – Level P

Advanced Topics in Building and Construction Information Management PG (11810) | 3 credit points – Level P

Built Environment Professional Thesis 1 (6CP) PG (11811) | 6 credit points – Level P

Building Information Modelling Management PG (11812) | 3 credit points – Level P

Built Environment Professional Thesis 2 (6CP) PG (11813) | 6 credit points – Level P

### Restricted Choice - Must pass 6 credit points from the following

#### Part A - Must pass 3 credit points from the following

Small Business Management G (11509) | 3 credit points – Level G

Enterprise Systems G (11518) | 3 credit points – Level G

## Part B - Must pass 3 credit points from the following

Strategy, Innovation and Change PG (11506) | 3 credit points – Level P

Building, Technology & Innovation PG (11987) | 3 credit points – Level P

- From 2023, unit 11987 Building, Technology & Innovation PG replaces 11506 Strategy, Innovation and Change PG

In addition to course requirements, in order to successfully complete your course you must meet the inherent requirements. Please refer to the [inherent requirements statement](#) applicable to your course

# Typical study pattern

UC - Canberra, Bruce

Standard Full Time, Semester 1 Commencing

### Year 1

#### Semester 1

[Integrated Construction Procurement G \(11806\)](#)

[Introduction to Building Information Modelling G \(11805\)](#)

[Introduction to Data Science G \(11516\)](#)

[Technological Innovation and Entrepreneurship G \(11530\)](#)

#### Semester 2

[Building Information Modelling Technology G \(11808\)](#)

[Building, Technology & Innovation PG \(11987\)](#)

[Built Environment Research Methods PG \(11809\)](#)

[Integrated Project Management G \(11807\)](#)

### Year 2

#### Semester 1

Restricted Choice Unit

[Advanced Topics in Building and Construction Information Management PG \(11810\)](#)

[Built Environment Professional Thesis 1 \(6CP\) PG \(11811\)](#)

**Semester 2**

[Building Information Modelling Management PG \(11812\)](#)  
[Built Environment Professional Thesis 2 \(6CP\) PG \(11813\)](#)  
[Management Information Systems G \(9503\)](#)

**Standard Full Time, Semester 2 Commencing****Year 1****Semester 2**

[Building Information Modelling Technology G \(11808\)](#)  
[Building, Technology & Innovation PG \(11987\)](#)  
[Built Environment Research Methods PG \(11809\)](#)  
[Integrated Project Management G \(11807\)](#)

**Year 2****Semester 1**

[Integrated Construction Procurement G \(11806\)](#)  
[Introduction to Building Information Modelling G \(11805\)](#)  
[Introduction to Data Science G \(11516\)](#)  
[Technological Innovation and Entrepreneurship G \(11530\)](#)

**Semester 2**

[Building Information Modelling Management PG \(11812\)](#)  
[Built Environment Professional Thesis 1 \(6CP\) PG \(11811\)](#)  
[Management Information Systems G \(9503\)](#)

**Year 3****Semester 1**

[Advanced Topics in Building and Construction Information Management PG \(11810\)](#)  
[Built Environment Professional Thesis 2 \(6CP\) PG \(11813\)](#)  
Restricted Choice Unit

**Standard Part Time, Semester 1 Commencing**

## **Year 1**

### **Semester 1**

[Integrated Construction Procurement G \(11806\)](#)

[Introduction to Building Information Modelling G \(11805\)](#)

### **Semester 2**

[Building Information Modelling Technology G \(11808\)](#)

[Integrated Project Management G \(11807\)](#)

## **Year 2**

### **Semester 1**

[Introduction to Data Science G \(11516\)](#)

[Technological Innovation and Entrepreneurship G \(11530\)](#)

### **Semester 2**

[Building, Technology & Innovation PG \(11987\)](#)

[Management Information Systems G \(9503\)](#)

## **Year 3**

### **Semester 1**

Restricted Choice Unit

[Advanced Topics in Building and Construction Information Management PG \(11810\)](#)

### **Semester 2**

[Building Information Modelling Management PG \(11812\)](#)

[Built Environment Research Methods PG \(11809\)](#)

## **Year 4**

### **Semester 1**

[Built Environment Professional Thesis 1 \(6CP\) PG \(11811\)](#)

### **Semester 2**

[Built Environment Professional Thesis 2 \(6CP\) PG \(11813\)](#)

## **Standard Part Time, Semester 2 Commencing**

### **Year 1**

## **Semester 2**

[Building Information Modelling Technology G \(11808\)](#)

[Integrated Project Management G \(11807\)](#)

## **Year 2**

### **Semester 1**

[Integrated Construction Procurement G \(11806\)](#)

[Introduction to Building Information Modelling G \(11805\)](#)

### **Semester 2**

[Building, Technology & Innovation PG \(11987\)](#)

[Management Information Systems G \(9503\)](#)

## **Year 3**

### **Semester 1**

[Introduction to Data Science G \(11516\)](#)

[Technological Innovation and Entrepreneurship G \(11530\)](#)

### **Semester 2**

[Building Information Modelling Management PG \(11812\)](#)

[Built Environment Research Methods PG \(11809\)](#)

## **Year 4**

### **Semester 1**

Restricted Choice Unit

[Advanced Topics in Building and Construction Information Management PG \(11810\)](#)

### **Semester 2**

[Built Environment Professional Thesis 1 \(6CP\) PG \(11811\)](#)

## **Year 5**

### **Semester 1**

[Built Environment Professional Thesis 2 \(6CP\) PG \(11813\)](#)

# Course information



## Course duration

Standard 2 years full time, or part time equivalent. The maximum duration is 6 years.

## Learning outcomes

Learning outcomes	Related graduate attributes
Integrate cross disciplinary data and information to adapt the BIM workflows of built environment enterprises.	-
Design and implement digital nD modelling and strategies appropriate to the design and construction phases of the built environment project lifecycle.	-
Develop critical thinking, leadership, collaboration and problem-solving skills and apply these skills to strategic decision making in BIM adoption and implementation.	-
Identify procurement, contractual and legal requirements and explain their implications for BIM processes and implementation.	-
Develop and apply academic research skills to critically analysis relevant literature and to employ appropriate and ethical research methodologies.	-
Conduct research and development into the technical and managerial practices used in construction projects and apply a range of BIM workflows to different scenarios.	-
Develop specialised knowledge of BIM applications and processes and appropriately apply this knowledge to a range of BIM-based construction management practices.	-
Adapt and apply various emerging digital technologies to solve complex problems within the modern built environment.	-

## Awards

Award	Official abbreviation
Master of Building and Construction Information Management	M Bldg&ConstrInfMgt

## Alternative exits

Exit points:

ABC101 Graduate Certificate in Building and Construction Information Management

ABG101 Graduate Diploma in Building and Construction Information Management

## Enquiries

Student category	Contact details
Prospective Domestic Students:	Email <a href="mailto:study@canberra.edu.au">study@canberra.edu.au</a> or Phone 1800 UNI CAN (1800 864 226)
Prospective International Students:	Email <a href="mailto:international@canberra.edu.au">international@canberra.edu.au</a> or Phone +61 2 6201 5342
Current and Commencing Students:	Email <a href="mailto:FAD.Student@canberra.edu.au">FAD.Student@canberra.edu.au</a> or Phone 1300 301 727

## Download your course guide



# Scholarships

Find the scholarship that's the right fit for you

[Explore Scholarships](#)

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CRICOS 00212K

TEQSA Provider ID: PRV12003 (Australian University)

UC acknowledges the Ngunnawal people, traditional custodians of the lands where Bruce campus is situated. We wish to acknowledge and respect their continuing culture and the contribution they make to the life of Canberra and the region. We also acknowledge all other First Nations Peoples on whose lands we gather.