



MASTER OF INFRASTRUCTURE ENGINEERING AND MANAGEMENT

Do you want to expand your career?

The 21st century presents a vital challenge for Civil Engineering.

As the infrastructure grows older, the need for a strategic maintenance plan to prolong its use becomes greater. Skilled professionals are required to maintain ageing infrastructure, integrate new infrastructure into existing systems, and expand infrastructure.

The Master of Infrastructure Engineering and Management is for managers, engineers and technical staff who want to undertake asset management in transport, water and built infrastructure under local and state governments.

Graduates of this program work in the management of infrastructure such as roads, railways, buildings, bridges, tunnels, dams and pipelines, having developed their knowledge of this ever-expanding industry.



Comprehensive – The program consists of a diverse range of units classified as core and electives. Students can select units to develop expertise in the disciplines available in the program.



Off-campus – The program is taught by off-campus learning, which means you can balance your work and study while attaining your engineering qualification with Monash University. It is based on a combination of online study materials and online communication.

Academic assistance with the materials can be obtained by email, telephone or online posting.

Discussion groups and other forms of online communication are also available.



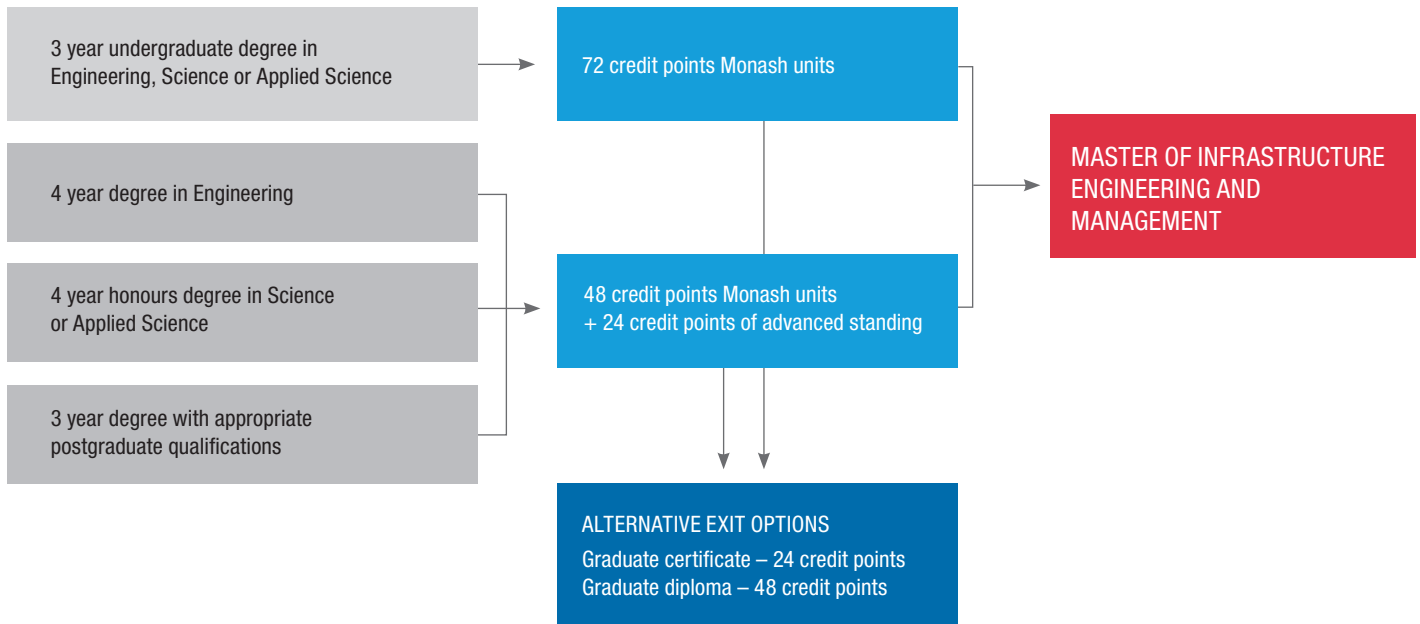
Flexible – At any stage of the course, students can choose to exit with graduate diploma or graduate certificate depending on the entry level and completion of required units.



“I chose the Master of Infrastructure Engineering and Management at Monash due to the course structure and its direct relevance to industry. The ability to tailor my course and select water engineering subjects in the elective stream was a standout feature of the course for me, being currently employed in the water industry. After graduating I hope to take on greater responsibility in the capital project and asset management areas and eventually transition to a management role within the dams area.”

Richard Mannix | Emergency Planning Officer, Southern Rural Water, Victoria

Entry and Exit Options



Course details

The program aims to meet your needs to work in the infrastructure engineering industry, by providing postgraduate units that are:

Comprehensive – covering fundamental technical and management dimensions and industry practices

Flexible – you choose when and where you study.

Core units (each 6 credit points)

- CIV5310 Infrastructure Project and Policy Evaluation
- CIV5311 Infrastructure Project Management
- CIV5312 Asset Management I
- CIV5313 Asset Management II

Elective units

- CIV5881 Ground Water Hydraulics
- CIV5882 Flood Hydraulics and Hydrology
- CIV5883 Surface Water Hydrology
- CIV5884 Water Sensitive Stormwater Design
- CIV5885 Infrastructure Dynamics
- CIV5886 Infrastructure Geomechanics
- CIV5887 Infrastructure Rehabilitation and Monitoring
- CIV5888 Advanced Computational Methods
- CIV5301 Advanced Traffic Engineering
- CIV5302 Traffic Engineering and Management
- CIV5304 Intelligent Transport Systems

For the Business and Economics electives, select unit(s) with a prefix of '59' and off-campus mode:

monash.edu.au/pubs/handbooks/units/index-bymode-off-campus.html

Entry and completion requirements

The Postgraduate Program in Infrastructure Engineering and Management is aimed at managers, engineers and technical staff who undertake asset management in transport, water and built infrastructure under local and state governments.

Professionals involved in the management of infrastructure such as roads, railways, buildings, bridges, tunnels, dams and pipelines and facilities for water supply, transport and power generation, have chosen this program to develop their understanding of the ever-expanding industry.

The program suits those wanting to develop their career choices as well as experienced professionals aiming to upgrade their knowledge and skills. To be eligible for admission you must hold a Bachelor's Degree in engineering or another relevant discipline, however some introductory knowledge of civil engineering is expected.

The course comprises 72 credit points, consisting of four core units (24 credit points) and electives. Students holding the equivalent to a Bachelor of Engineering may be eligible for up to 24 credit points of advanced standing and would only need to complete 48 credit points (four core units plus four electives) to obtain the Master of Infrastructure Engineering and Management.

English language requirements

For entry to Monash University, you must meet the minimum English language requirements:

monash.edu/admissions/english-language-requirements

Off-campus delivery

This program is delivered online, that is students study off-campus for this degree. International students can enrol in this program but they are not eligible for a student visa to live in Australia while they study. Units are delivered online via distance education. There are no classes to attend.

Apply

For more information visit:

monash.edu/engineering/infrastructure

Students can enter for Semester 1 (March to May) or Semester 2 (July to October)

Contacts

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