



THE UNIVERSITY OF
MELBOURNE

BACHELOR OF COMMERCE AND MASTER OF ENGINEERING



THE POWER COMBINATION OF BUSINESS AND ENGINEERING ANALYTICAL AND PROBLEM SOLVING SKILLS.

A Bachelor of Commerce followed by a Master of Engineering from the University of Melbourne gives students a critical edge and entry to a global career in business, engineering, management, government or research.

It offers all the benefits of a double degree, with the bonus of graduating with both a Bachelor and Masters degree in five years.

WHY STUDY COMMERCE AND ENGINEERING?

With an engineering degree, you really can change the world. Engineers provide clean water to communities across the globe, they help deaf people hear, enable us to communicate with one another, and make possible the manufacture and transport of the clothes we wear and the food we eat.

More than this, they are essential to our ability to meet the challenges of our age – things like climate change, health and ageing and sustainability - are engineering problems at heart. Engineers show the world ways in which we can use and reuse our energy, water and natural resources more efficiently. With a global shortage of engineers, demand for graduates is high.

Combining Engineering studies with a degree in Commerce provides even greater scope for graduates to design a career that best suits their interests.

A Bachelor of Commerce complements the technical skills gained in engineering by providing students with the foundation skills for a successful business career. There are many areas in commerce on which to focus – economics, finance, marketing or business management. Commerce graduates are found in variety of professional work environments such as investment banking, management consulting, and government.

Those with qualifications in both Commerce and Engineering can choose to work in these fields, or in traditional or new areas of engineering, such as biomedical and environmental engineering, or the many fields in which the combination of skills is highly regarded.

ENGINEERING AT THE UNIVERSITY OF MELBOURNE

The University of Melbourne has an international reputation for its research and teaching in engineering and technology. In 2008, it was ranked 28th in the world for technology by The Times Higher Education World University Rankings.

The Melbourne School of Engineering is the first in Australia to offer a five-year accredited engineering program, aligning it with the growing trend at top international engineering schools. The new Melbourne Model curriculum enables students to gain broader skills and experience beyond engineering, in addition to developing their technical expertise.

COMMERCE AT THE UNIVERSITY OF MELBOURNE

Commerce graduates from the University of Melbourne can proudly boast a degree from one of Australia’s most prestigious universities. The Faculty of Economics and Commerce was ranked 19th in the world for Social Sciences by The Times Higher Education World University Rankings (2008). The Faculty’s academic staff are recognised internationally and their collaborations and publications inform not only the degrees offered by the Faculty but leading managers around the world.

WHY DO COMMERCE FOLLOWED BY ENGINEERING AT MELBOURNE?

Professional engineers today work on a far broader front than in the past. They manage multi-million dollar projects and are often part of teams that bridge national boundaries. They need to know more, and to have a broader view of business, than ever before.

The US National Academy of Engineering has highlighted that ‘technical excellence is the essential attribute of engineering graduates, but those graduates should also possess team, communication, ethical reasoning, and societal and global contextual analysis skills as well as understand work strategies’ (Educating the Engineer of 2020: Adapting Engineering Education to the New Century (2005) US National Academy of Sciences, National Academies Press). With both commerce and engineering qualifications, graduates will enter the workforce with a combination of broad, transferable skills and technical expertise most sought by employers.

HOW IT WORKS

The University of Melbourne has developed the five-year program structured as a three-year undergraduate degree with an engineering major or sequence, followed by a two-year Master of Engineering. Graduates from this unique Bachelor and Masters program are better equipped to contribute to their chosen profession and the wider community.

From the first year of the Bachelor of Commerce, students study an engineering systems sequence alongside compulsory and optional subjects from the core Commerce program. Students use the breadth component of their Commerce degree to accommodate the engineering sequence. Sequences are available in: Bioengineering, Chemical, Civil, Electrical, Mechanical and Software Engineering.

Graduate engineers can also gain accreditation with Engineers Australia, allowing them to work in 12 of the world’s leading economies, including the USA, UK, Hong Kong and Singapore.

Guaranteed Commonwealth Supported Places (CSPs) will be offered in the Master of Engineering to local students with an ENTER of 95+, who satisfactorily complete a Melbourne Model degree with a major or sequence in engineering (achieving an average of 65% in their final two years).

Sample course plan: Bachelor of Commerce/ME (Civil) - Civil Systems Breath Sequence*

BCOM	Sem 1	Commerce Subject	Commerce Subject	Commerce Subject	Calculus 2
	Sem 2	Commerce Subject	Commerce Subject	Engineering Systems Design 2	Linear Algebra
BCOM	Sem 3	Commerce Subject	Commerce Subject	Commerce Subject	Engineering Maths
	Sem 4	Commerce Subject	Commerce Subject	Engineering Materials	Engineering Mechanics
BCOM	Sem 5	Commerce Subject	Commerce Subject	Commerce Subject	Fluid Mechanics
	Sem 6	Commerce Subject	Commerce Subject	Structural Theory & Design	Earth Processes for Engineering
ME	Sem 7	Structural Theory & Design 2	Engineering Site Characterisation	Risk Analysis or Civil Engineering Elective	Sustainable Infrastructure Systems
	Sem 8	Engineering Project Implementation	Systems Modelling & Design	Transportation Systems	Civil Engineering Elective
ME	Sem 9	Civil Hydraulics	Research Project	Civil Engineering Elective	Integrated Design
	Sem 10	Geotechnical Engineering		Civil Engineering Elective	

Commerce subjects
Civil Systems subjects

* This sample course plan is provided as a guide only. Subjects may vary from year to year and the availability of particular subjects is not guaranteed. Students who have not completed VCE Specialist Mathematics should seek advice from a Course Adviser as to which mathematics to undertake.

MORE INFORMATION

For more information on the Bachelor of Commerce followed by the Master of Engineering visit www.eng.unimelb.edu.au/undergrad or contact

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