AEROSPACE ENGINEERING

Aerospace engineering courses include aerodynamics, flight mechanics, propulsion, structures and systems, complemented by two advanced design courses, extensive laboratory facilities, and a range of wind tunnels. Students in the School of Mechanical and Manufacturing Engineering share the first two years of their undergraduate degree. The third and fourth years cover the analysis, design and operation of aircraft and spacecraft. The final-year design course involves a team design project integrating all aspects of aircraft design to meet a defined mission specification with industrial input.

“Originally, my dream job was to become a Formula 1 aerodynamicist. During the course of my degree, I have delved deeper into engineering disciplines and developed a greater understanding of my strengths and interests. This has led me to the spacecraft engineering industry. I hope to move to Germany to help design satellites, spacecraft and launch-vehicle structures.”

Chris Warren
BE IN AEROSPACE ENGINEERING

UNSW ENGINEERING

Not only are we the largest engineering faculty in Australia with the widest choice of degrees through our nine schools, we also have 65 years of experience, passionate academics, brilliant engineering researchers and partnerships with government and industry, both here and overseas. It’s no wonder we are the #1 engineering faculty in the country.”

APPLICATION INFORMATION

For everything you need to know about applying to UNSW Engineering, including scholarships and our alternative entry options, visit our faculty website at engineering.unsw.edu.au

FIND OUT MORE ABOUT AEROSPACE ENGINEERING

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CRICOS Provider no: 00098G
*Shanghai Jiao Tong University’s Academic Ranking of World Universities in Engineering/Technology and Computer Sciences 2014.
BE (HONS) IN AEROSPACE ENGINEERING

LENGTH OF STUDY: 4 years
UAC CODE: 425050
2014 CUT-OFF: 91.00

All degrees offered by the School of Mechanical and Manufacturing Engineering (except mechatronic engineering) have a common first two years — that means you don’t need to decide on your specialisation until after that. There are also a number of dual degrees available which offer students the opportunity to complete two degrees in as little as five years.

ASSUMED KNOWLEDGE
HSC Mathematics Extension 1 and Physics.

RECOMMENDED KNOWLEDGE
HSC Mathematics Extension 2 or Chemistry or Engineering Studies or Software Design and Development or Information Processes and Technology.

INDUSTRIAL RECOGNITION
We love to produce graduates who are ready to hit the ground running, so we make it a compulsory part of the degree to complete at least 60 days of approved industrial training. Students can do this within Australia or overseas and many students are offered jobs as a result of their training. To help you connect with employers, the School hosts an annual Students Meet Industry Night.

PROFESSIONAL RECOGNITION
The BE (Hons) in Aerospace Engineering is fully accredited by the professional body for engineering in Australia, Engineers Australia (EA). It is also recognised by The American Institute of Aeronautics and Astronautics (AIAA) and The Royal Aeronautical Society (RAeS) for later registration as a Professional Chartered Engineer.

GRADUATE WITH HONOURS
Our Bachelor of Engineering (Honours) degree is competitive and challenging, and requires students to perform at a high level to graduate. This ensures graduates are equipped with the skills and knowledge for a successful career as a professional engineer.

DEGREE OPTIONS
Dual Degrees:
You can combine your Bachelor of Engineering (Honours) with a number of degrees from across the University, including Arts, Commerce, Law, and Science.

For the latest on your dual degree options, visit engineering.unsw.edu.au or search the online handbook at handbook.unsw.edu.au.

Alternatives:
Check out the table below for the other programs offered at the School of Mechanical and Manufacturing Engineering.

DEGREE OUTLINE

Information provided about subjects, units, courses and any arrangements, for courses including staff, are an expression of intent only and are not to be taken as a firm offer, undertaking or guarantee. The School of Mechanical and Manufacturing Engineering, UNSW reserves the right to discontinue or vary any such subjects, units, courses, arrangements or staffing at any time without notice and to impose limitations on enrolment in any course.

SCHOOL OF MECHANICAL AND MANUFACTURING ENGINEERING
We have been a leading educational provider for 65 years, and with over 1500 undergraduate students and 90 staff members we are the largest mechanical engineering school in Australia. Students can choose from five engineering sub-disciplines – aerospace, mechanical, mechanical and manufacturing, mechatronic and naval architecture – and are inspired and guided by passionate teaching staff and researchers.

• New state-of-the-art building under construction
• Ultra-modern teaching labs, including a dedicated undergraduate teaching space
• Cutting-edge research facilities
• Strong partnerships with industry in education, research, industrial training and employment