What do civil engineers do?
Civil engineers construct, manage and maintain the infrastructure of modern society using mathematics, mechanics, physics and creative problem-solving. Civil engineers work on more than just buildings and bridges, for example tunnels, water supplies, airports and harbours all rely on civil engineers. This degree will build on your Civil Engineering understanding by immersing you in Architecture subjects. You’ll be able to appreciate and understand architectural principles and develop your creativity, allowing you to work closely with architects to incorporate these into new and innovative designs.

What will your study involve?
You’ll be inspired to become a conceptual thinker with a mix of aesthetic and structural expertise. This degree provides civil engineers with an appreciation and understanding of architectural principles, focusing on creativity and inventiveness. Civil electives can be chosen from disciplines including structural, geotechnical, transport or water engineering, or engineering construction and management.

Students will graduate qualified and equipped to work with architects and other building professionals to produce integrated and sustainable designs.

UNSW Civil & Environmental Engineering
- 1st in Australia and 13th globally for Civil and Structural Engineering (QS Subject Rankings 2022).
- We have close links with key professional, commercial and industrial organisations, allowing us to offer exciting and innovative student-led projects and industry-based training.
- Our degrees place a strong emphasis on practical design and problem-solving.

Program details
- Lowest Selection Rank (2022): 94
- Duration: Four-year embedded honours degree
- Study areas: Architecture, Civil Engineering
- Assumed knowledge: HSC level Mathematics Extension 1, Physics

Accreditation
Your Bachelor of Engineering (Honours) degree is recognised globally, accredited with Engineers Australia, and acknowledged by the Washington Accord which lets you work in over 20 countries across the globe upon graduation.

Career options
Graduates can be employed by specialist structural engineering design consultants, construction and contracting companies, federal, state, and local government organisations, airport and harbour authorities, project developers, and management consultancies.

Student Testimonials
“I wanted to be able to build upon my creativity and passion for design while capitalising on my strong mathematical background, and this degree promotes a balance between analytical skills and imagination. Being able to contribute to a project and see its outcome is an extremely satisfying experience.”
Tom LY Banh, Civil Engineering with Architecture
Example study plan

<table>
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<th>YEAR 1</th>
<th>TERM 1</th>
<th>TERM 2</th>
<th>TERM 3</th>
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<tbody>
<tr>
<td></td>
<td>Mathematics 1A</td>
<td>Engineering Construction</td>
<td>Introduction to Engineering Design &amp; Innovation</td>
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<tr>
<td></td>
<td>Physics 1A</td>
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<tr>
<td>YEAR 2</td>
<td>Architectural Design Studio 1</td>
<td>Fluid Mechanics for Engineers</td>
<td>Architectural Design Studio 2</td>
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<td></td>
<td>Mechanics of Solids 1</td>
<td>Engineering Computations</td>
<td>Engineering Mathematics 2E</td>
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<tr>
<td></td>
<td>Engineering Computations</td>
<td>Structural Analysis and Modelling</td>
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<tr>
<td>YEAR 3</td>
<td>Architectural Design Studio 3</td>
<td>Applied Geotechnics</td>
<td>Engineering Operations and Control</td>
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<td>Steel Structures</td>
<td>Concrete Structures</td>
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<td>Water and Wastewater Engineering</td>
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<td>YEAR 4</td>
<td>Communication in the Built Environment</td>
<td>Thesis A</td>
<td>Sustainable Infrastructure</td>
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<td></td>
<td>Water Resources Engineering</td>
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You’ll be required to complete 60 days of Industrial Training throughout your degree. This is a sample degree outline only and may be subject to change. Please refer to the UNSW Handbook for further information and relevant course codes.