3621 – Bachelor of Engineering
The future presents significant challenges to those responsible for managing the environmental, infrastructure and technological developments. Effective solutions to these challenges will require innovative engineering, applied science and design strategies. At the University of Western Sydney, we prepare students to take on those challenges and succeed.

The UWS Engineering degree is all about the application of knowledge to achieve practical outcomes. It covers all major engineering domains, and you can experience many facets of engineering before deciding your area of specialisation at the end of your first year.

Study Mode
Four years full time, or part-time equivalent. Students are required to complete 12 weeks of Industrial Experience, usually between the third and fourth years of the program.

3621.7 – Bachelor of Engineering: Construction
The Bachelor of Engineering degree with a key program in Construction Engineering covers the fields of structural design, project management and construction technologies as well as geotechnical engineering.

Entry via: HSC, TAFE, UWSC, private colleges, prior study, International
CRICOS Code: 041037C
Accreditation: Engineers Australia at Professional Level

A Career in Construction Engineering
The UWS Engineering Program gives you professional skills and knowledge in specialisations of great demand. Graduates have the opportunity to work in the fields of construction, structural design, project management, quantity surveying and estimation. Career opportunities include those in the private or public sector on projects covering roads, bridges, airports, and residential and commercial buildings.

Student Testimonial
Francis entered UWS as a mature age student with a construction background. His passion for engineering knowledge grew exponentially under the excellent academic guidance provided at UWS, and a desire to pursue a career in water engineering unfolded. He currently works as an engineer for a western Sydney council.

‘The face to face availability of academic staff at UWS should not be taken for granted. I attended every lecture and tutorial possible over my four years of full-time study. The face to face impartation of knowledge worked for me. I have the academic results to prove it!’
Francis Lane

‘Since joining the workforce I have come to appreciate how valuable the skills I learned while studying at UWS actually are. I have found time and again that I am more capable and able to review and resolve the challenges that my professional career throws at me.’
Jonathan Barnes

Engineers’ Salaries

<table>
<thead>
<tr>
<th>Grade</th>
<th>Gross base salary, $pa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade 1 – Starting salary</td>
<td>70,287</td>
</tr>
<tr>
<td>Grade 2 – 2 to 3 years of experience</td>
<td>83,736</td>
</tr>
<tr>
<td>Grade 3 – 4 to 10 years of experience</td>
<td>99,843</td>
</tr>
<tr>
<td>Grade 4 – 10 to 15 years of experience</td>
<td>124,061</td>
</tr>
<tr>
<td>Grade 5 – over 15 years of experience</td>
<td>164,641</td>
</tr>
</tbody>
</table>

Source: Engineers Australia – Salaries and Benefits Survey (2012)

For more information please send your enquiry to Beng@uws.edu.au
Bachelor of Engineering
Key Program: Construction

Course structure

Year 1
Session 1 Autumn
» 200237 Mathematics for Engineers 1
» 300027 Engineering Computing
» 300963 Engineering Physics
» 300964 Introduction to Engineering Practice

Session 2 Spring
» 200238 Mathematics for Engineers 2
» 300021 Electrical Fundamentals
» 300463 Fundamentals of Mechanics
» 300965 Engineering Materials

Year 2
Session 3 Autumn
» 300731.2 Soil Engineering
» 300040.2 Mechanics of Materials
» 200486.2 Quantity Surveying 1
» 300482.2 Engineering Geology and Concrete Materials

Session 4 Spring
» 300733.2 Introduction to Structural Engineering
» MG102A.4 Management Foundations
» 300738.3 Surveying for Engineers
» 200468.2 Estimating 1

Year 3
Session 5 Autumn
» 300732.2 Structural Analysis
» 300727.2 Project Management
» 300728.2 Construction Planning
» And one elective

Session 6 Spring
» 300053.3 Professional Practice
» 300730.2 Steel Structures
» 300736.2 Concrete Structures (UG)
» And one elective

Industrial Experience
» 300741.2 Industrial Experience (Engineering)

Year 4
Session 7 Autumn (Non-Honours stream)
» 300483.4 Engineering Project
  Please note: Students must enrol in 300483 Engineering Project in both Autumn and Spring sessions.
» 200471.3 Construction Technology 5 (Envelope)
» 300488.3 Numerical Methods in Engineering
» And one elective

Session 8 Spring (Non-Honours stream)
» 300483.4 Engineering Project
» 300725.2 Construction Technology 6 (Services)
» 300485.3 Foundation Engineering
» And one elective

Honours Stream
An Honours stream is offered – see the Honours in Bachelors Awards Policy and associated College Guidelines for the admission criteria.

Year 4
Session 7 Autumn (Honours stream – H3003)
» 300675.2 Honours Thesis
» 300488.3 Numerical Methods in Engineering
» And one elective

Session 8 Spring (Honours stream – H3003)
» 300675.2 Honours Thesis
» 300485.3 Foundation Engineering
» And one elective

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