Bachelor of Engineering  
Key Program: Civil

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: Civil
The Bachelor of Engineering degree with a key program in Civil Engineering covers the fields of structural design, construction management and water engineering, together with an introduction to environmental and geotechnical engineering.

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

A Career in Civil Engineering
The UWS Engineering Program gives you professional skills and knowledge in specialisations of great demand. As a Civil Engineer you may work in designing, constructing and managing roads, transportation, airports, water supply, sewerage systems, bridges and large 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)
Bachelor of Engineering
Key Program: Civil

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
  - 300762.2 Fluid Mechanics
  - 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
  - 300765.2 Hydraulics

Year 3
Session 5 Autumn
  - 300732.2 Structural Analysis
  - 300486.2 Infrastructure Engineering
  - 300766.2 Hydrology
  - And one elective

Session 6 Spring
  - 300053.3 Professional Practice
  - 300730.2 Steel Structures
  - 300736.2 Concrete Structures (UG)
  - And one elective
  - 300741.2 Industrial Experience (Engineering)

Year 4
Session 7 Autumn (Non-Honours stream)
  - 300483.4 Engineering Project
  - 300483 Engineering Project in both Autumn and Spring sessions.
  - 300739.2 Timber Structures (UG)
  - 300488.3 Numerical Methods in Engineering
  - And one elective

Session 8 Spring (Non-Honours stream)
  - 300483.4 Engineering Project
  - 300737.3 Environmental Engineering
  - 300485.3 Foundation Engineering
  - And one elective

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

Course structure subject to change without prior notice.