61110 Bachelor of Arts and Bachelor of Engineering

Mining Engineering

Note: Available to re-enrolling students only. The 2012 Rules for this program allows students to combine studies in Mechatronics Engineering with a broad based degree in Arts, Humanities and Social Sciences.

[Students enrolled in the BE/BA (Asian Studies) and BE/BA (Communication Studies) programs should refer to the 2010 Rules. However, the following may be used as a guide for these students]

Course details

Total points required for this course: 264
Bachelor of Engineering component: 168 points
Bachelor of Arts component: 96 points

Students must complete the following (as set out in the table below):

- Bachelor of Engineering foundation core units - 36 points;
- all units in Table 6.2.2Ka (Mining Engineering core units) - 114 points;
- three option units from Group A in Table 6.2.2Kb (Mining Engineering options) - 18 points;
- a Professional Practicum of at least 12 weeks; and
- a Bachelor of Arts component - 96 points

The following table is intended as a guide only. All units have a value of 6 points unless noted otherwise. Unit availability may be subject to change. For the most up-to-date information, please consult the Timetable at http://www.timetable.uwa.edu.au/
# 61110 Bachelor of Arts and Bachelor of Engineering

## Mining Engineering

<table>
<thead>
<tr>
<th>Semester One</th>
<th>Semester Two</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR ONE - 48 POINTS</strong></td>
<td><strong>YEAR ONE - 48 POINTS</strong></td>
</tr>
</tbody>
</table>
| MATH1020 Calculus, Statistics and Probability  
PHYS1101 Advanced Physics A  
GENG1001 Eng: Introduction to Engineering Mechanics  
Arts unit | MATH1010 Calculus and Linear Algebra  
GEN1002 Introduction to Electrical and Electronic Eng.  
BE Group A option  
Arts unit |
| **YEAR TWO - 48 POINTS** | **YEAR TWO - 48 POINTS** |
| MATH2040 Engineering Mathematics  
CIVL2121 Engineering Geology and Geomechanics  
ENS3004 Solid Mechanics (replaces CIVL2110 Statics and Solid Mechanics)  
CIVL2150 Surveying and CAD | CIVL2122 Geomechanics  
GEN1003 Introduction to Professional Engineering  
GEN2140 Modelling and Computer Analysis for Engineers (Group A)  
Arts unit |
| **YEAR THREE - 48 POINTS** | **YEAR THREE - 48 POINTS** |
| EART3351 Mineral Resources  
ENS3003 Fluid Mechanics (replaces MECH2403 Thermofluids 2)  
Arts unit  
Arts unit | CIVL3150 Project Management and Risk Engineering  
MINE3160 Rock Mechanics and Rock Slopes  
Arts unit  
Arts unit |
| **YEAR FOUR - 48 POINTS** | **YEAR FOUR - 48 POINTS** |
| MINE3161 Surface Mining  
MINE3162 Underground Mining 1  
Arts unit  
Arts unit | CIVL4121 Geotechnical and Geoenvironmental Engineering  
CIVL4161 Mine Design  
Art unit  
Art unit |
| **YEAR FIVE - 48 POINTS** | **YEAR FIVE - 48 POINTS** |
| MINE4166 Geotechnology of Mine Waste Management  
ASST4403 Reliability, Risk and Safety (previously Reliability Engineering)  
BE Group A option  
Arts unit | MINE4111 Mining Engineering Project Part 1  
MINE4162 Underground Mining 2  
MINE4185 Mining Management  
Arts unit |
| **YEAR SIX - 24 POINTS** | **YEAR SIX - 24 POINTS** |
| MINE4112 Mining Engineering Project Part 2  
Arts unit  
Arts unit  
Arts unit | Arts unit  
Arts unit  
Arts unit |

**Notes**

**Note 1:** MATH1010 and MATH1020 will no longer be offered from 2012 onwards. Students with prerequisite requirements and have completed one of MATH1010 and MATH1020 must take MATH1001 Mathematical Methods 1 and MATH1002 Mathematical Methods 2. Students who have completed both MATH1010 and MATH1020 will take MATH2040 in S1, 2012 (offered for the last time in 2012).

**Note 2:** PHYS1001 Physics for Engineers and Scientists replaces PHYS1101 Advanced Physics. Students who do not have WACE Physics 3A/3B or TEE Physics must take PHYS1030 Physics as a bridging unit before enrolling in PHYS101 Physics for Engineers and Scientists.

**Note 3:** Offered for the last time in 2011. Students requiring this unit or its equivalent should contact an ECM Faculty Advisor.

**Note 4:** Students who have not completed GENG1003 must take ENSC1001 Engineering Challenges in a Global World.

**Note 5:** Students who have not completed one of CIT1200 Java Programming (replaced by CIT1001 Object-Oriented Programming and Software Engineering), CIT1210 C Programming (replaced by CIT1002 Programming and Systems) or CIT1005 Computing for Engineers and Scientists (replaced by CIT2401 Computer Analysis and Visualisation) as part of their foundation units must include either one of those units or GENG2140 Modelling and Computer Analysis for Engineers in 2012.