6160 Bachelor of Computer Science and Bachelor of Engineering

Environmental Engineering

Note: Available to re-enrolling students only. This course allows students with a strong background in Computer Science to combine studies in Computer Science with the Environmental Engineering program offered in the Bachelor of Engineering. Students should refer to the 2012 Rules for this program.

Course details
Total points required for this course - 240 points
Bachelor of Computer Science component - 72 points
Bachelor of Engineering component - 168 points

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

A. Bachelor of Computer Science component:
   - Computer Science core units in Table 6.2.5a - 36 points
   - The requirements for completion of one of the following majors:
     i. Systems (by completing the remaining units from Table 6.2.3d) - 24 points;
     ii. Web Technologies (by completing the remaining units from Table 6.2.3e) - 18 points; or
     iii. Computation (by completing the remaining units from Table 6.2.3g) - 24 points
   - Units to make up the remaining required points from Table 6.2.5b (Bachelor of Computer Science Level 2 options) - 12 or 18 points. (Note: Students who have previously completed CITS1220 Software Engineering will take 6 or 12 points depending on the major chosen)
   - Students enrolled in the Entertainment Technologies and Software Management should refer to the 2010 Rules for these majors.

B. Bachelor of Engineering component:
   - Bachelor of Engineering foundation core units - 36 points;
   - all units in Table 6.2.2Fa (Environmental Engineering core units) – 90 points;
   - one of the following majors: the Environmental Engineering major (MJ-EENVE), Ocean Systems Engineering major (MJ-EOCSE) and the Water Resources Engineering major (MJ-EWRES) – 30 points;
   - two units from Group B in Table 6.2.2Fc (Environmental Engineering options) – 12 points; and
   - a Professional Practicum of at least 16 weeks.

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/
### 61160 Bachelor of Computer Science and Bachelor of Engineering

#### Environmental Engineering

<table>
<thead>
<tr>
<th>Semester One</th>
<th>Semester Two</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR ONE</strong> - 48 Points</td>
<td><strong>YEAR TWO</strong> - 48 Points</td>
</tr>
<tr>
<td>MATH1010 Calculus and Linear Algebra (Note 1)</td>
<td>MATH1020 Calculus, Statistics and Probability (Note 1)</td>
</tr>
<tr>
<td>PHYS1101 Advanced Physics A (Note 2)</td>
<td>GENG1002 Eng: Introduction to Electrical and Electronic Engineering (Note 3)</td>
</tr>
<tr>
<td>GENG1001 Eng: Introduction to Engineering Mechanics (Note 3)</td>
<td>ENVE1601 Environmental Systems Engineering (replaced by ENSC3013 Environmental Systems)</td>
</tr>
<tr>
<td>CITS1200 Java Programming (replaced by CITS1001 Object-oriented Programming and Software Eng.)</td>
<td>CITS1210 C Programming (replaced by CITS1002 Programming and Systems)</td>
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</table>

**Environmental Engineering Major unit**

- Year One: 48 Points
- Year Two: 48 Points
- Year Three: 48 Points
- Year Four: 48 Points
- Year Five: 48 Points

### 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 PHYS1001 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 do not have WACE Chemistry 3A/3B or TEE Chemistry must complete CHEM1003 Introductory Chemistry as a bridging unit before taking this unit.