Welcome to the Faculty of Engineering, Architecture and Information Technology. We’re here to help.
### CHECKLIST

1. **Fill in your diary**
   - Compulsory: Project Day
   - Academic Advice Seminar
   - Parents and Partners Evening
   - O-Week Activities
   - **Page 4**

2. **Complete the Quiz (Deadline 24 February) and Academic Integrity Tutorial (Deadline 10 March)**
   - **Page 5**

3. **BE (Hons)**
   - What’s a Major?
   - Dual Degrees
   - **Pages 6 and 7**

4. **Choose your courses**
   - **Page 8**

5. **Choose your ENGG1100 project**
   - **Page 12**

6. **Plan your timetable**
   - **Page 14**

7. **Sign-On:**
   - ENGG1100: 9:00am 1 February 2017
   - ENGG1XXX: From 9:00am 1 February 2017
   - BIOL/CHM/MATH/PHY: From 31 January 2017
   - **Page 15**

8. **FAQs for 1st Year**
   - **Page 16**

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**IMPORTANT STEPS TO SUCCEED**

**Read up on more information**

- Compulsory BE (Hons) requirement
- Studying Overseas
- BE (Hons)/ME
- Academic Advice
- The UQ Engineering Mentor Program
- Scholarships & Prizes
- Memberships & Student Societies
- Equity & Diversity
- Do you need help?
- Terminology Explained

- **Pages 18 and 22**
### Bachelor of Engineering (Hons) First Year Guide 2017

#### STEP 1

**DIARY**

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JAN</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>Bachelor of Engineering (Hons) Welcome and Advice Seminar</td>
<td></td>
<td></td>
<td>First Year Engineering Learning Centre (FYLEC) Welcome and Timetable Advice Session</td>
<td>12:00pm - 2:00pm (50-C201 FYLEC)</td>
</tr>
</tbody>
</table>

**FEB**

| 1    | 2     | 3    |          |        |
| 10:00am - 12:00pm (50-T203) | FYELC Welcome and Timetable Advice Session | 12:00pm - 2:00pm (50-C201 FYLEC) |

**FEB**

| 20    | 21    | 22   | 23    | 24    |
| EAIT International Students Welcome 12:00pm - 1:00pm (49-200) | Bachelor of Engineering (Hons) Welcome and Advice Seminar 3:00pm - 4:00pm (49-200) | UQ Market Day 10:00am - 2:00pm University Drive, Campbell Place and the Great Court (St Lucia) | COMPULSORY FOR ALL FIRST YEAR BE (HONS) STUDENTS | COMPULSORY FOR ALL INTERNATIONAL STUDENTS |
| FYELC Welcome and Timetable Advice Session 1:00pm - 3:00pm (50-C201 FYLEC) | BBQ, EUS, Societies, Student Services, Industry 4:00pm - 5:00pm (49-200) | Women in Engineering Lunch 11:30am - 1:30pm (50-C201 FYLEC) | First Year Students BE (Hons) Project Day 8:30am - 3:00pm UQ Centre (Exhibition Hall 27A) | International First Year Bachelor of Engineering (Hons) Orientation 9:00am - 4:00pm (50-C207) |

**COMPULSORY FOR ALL INTERNATIONAL STUDENTS**

- Lunch is provided at these events.
- Special dietary requirements? (Halal, vegan etc.)
- Please email Yr1Eng@uq.edu.au by 10/02/17.

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**ATTEND ONE SESSION**

For further information go to: [www.uq.edu.au/orientation](http://www.uq.edu.au/orientation)
COMPULSORY QUIZ

Find out your strengths. Review the knowledge you need.

Students entering the first year of engineering bring different levels of knowledge and experience. Some have studied Maths C, Physics and Chemistry whilst others may have only studied one of these subjects.

In addition, there can be variation in the curricula offered by domestic and international schools. This can mean that some students may have skill sets that require additional support to assist with their transition to university.

The information gained through the Get Set Quiz is used in a number of ways:

- The overall cohort knowledge is fed back to first year lecturers so they can tailor their lectures appropriately;
- An individual report is generated indicating where you may need to do some revision and directing you to relevant resources;
- You will become aware of the knowledge expectations for first year engineering and can revise accordingly;
- You may also find that the information helps with selecting your courses.

63% who completed last year’s Quiz had a GPA > 5.
GPA = Grade Point Average; 4 = Pass, 7 = High distinction

86% who completed the 2016 Quiz passed all their courses.

Results are not used for assessment purposes.

ACADEMIC INTEGRITY TUTORIAL

Get a head start.
Complete the Academic Integrity Tutorial.
It’s compulsory for ENGG1100.
Go to www.uq.edu.au/integrity/Login
For your BE (Hons) you must attain #64 (64 units). Most courses are worth #2. If you do 4 courses a semester, that’s #8 a semester, or #16 a year, so the BE (Hons) is a four year program.

There are three methods of specialisation in engineering (see right).

You need to think carefully about your choice, as it will affect the number and type of electives you can select.

### WHAT’S A MAJOR?

First year engineering is common. You do not need to choose a major until 2nd year.

You can choose ‘Undeclared’ in your first year.

#### STEP 3

**WHAT’S A MAJOR?**

For your BE (Hons) you must attain #64 (64 units). Most courses are worth #2. If you do 4 courses a semester, that’s #8 a semester, or #16 a year, so the BE (Hons) is a four year program.

There are three methods of specialisation in engineering (see right).

You need to think carefully about your choice, as it will affect the number and type of electives you can select.

<table>
<thead>
<tr>
<th>Major (≥52 of #64 from specified list)</th>
<th>Dual Major* (≥60 from a specified list)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical</td>
<td>Chemical + Biological</td>
</tr>
<tr>
<td>Civil</td>
<td>Chemical + Environmental</td>
</tr>
<tr>
<td>Electrical</td>
<td>Chemical + Materials</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Chemical + Metallurgical</td>
</tr>
<tr>
<td>Mining</td>
<td>Civil + Environmental</td>
</tr>
<tr>
<td>Software</td>
<td>Civil + Geotechnical</td>
</tr>
<tr>
<td></td>
<td>Electrical + Biomedical</td>
</tr>
<tr>
<td></td>
<td>Electrical + Computer</td>
</tr>
<tr>
<td></td>
<td>Mechanical + Aerospace</td>
</tr>
<tr>
<td></td>
<td>Mechanical + Materials</td>
</tr>
<tr>
<td></td>
<td>Mining + Geotechnical</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Extended Major* (≥60 of #64 from specified list)</th>
<th>Dual Major* (≥60 from a specified list)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical</td>
<td>Chemical + Biological</td>
</tr>
<tr>
<td>Civil</td>
<td>Chemical + Environmental</td>
</tr>
<tr>
<td>Electrical</td>
<td>Chemical + Materials</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Chemical + Metallurgical</td>
</tr>
<tr>
<td>Mechatronic</td>
<td>Civil + Environmental</td>
</tr>
<tr>
<td>Mining</td>
<td>Civil + Geotechnical</td>
</tr>
<tr>
<td>Software</td>
<td>Electrical + Biomedical</td>
</tr>
<tr>
<td></td>
<td>Electrical + Computer</td>
</tr>
<tr>
<td></td>
<td>Mechanical + Aerospace</td>
</tr>
<tr>
<td></td>
<td>Mechanical + Materials</td>
</tr>
<tr>
<td></td>
<td>Mining + Geotechnical</td>
</tr>
</tbody>
</table>

*Extended and Dual Majors have specific requirements. Please visit www.uq.edu.au/study for further details.

Need some help?

Book an appointment with your first year BE (Hons) academic advisor.

Email: Yr1eng@uq.edu.au
Dual Degree Programs

Dual Degree programs give you the opportunity to broaden your education and experience. However you will need to plan your degree in full now so things go smoothly.

<table>
<thead>
<tr>
<th>Dual Degree:</th>
<th>BE (Hons) / BA</th>
<th>BE (Hons) / BBioTech</th>
<th>BE (Hons) / BBusMan</th>
<th>BE (Hons) / BCom</th>
<th>BE (Hons) / BlinTech</th>
<th>BE (Hons) / BSc*</th>
<th>BE (Hons) / BMath</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration:</td>
<td>5.5 yrs</td>
<td>5.5 yrs</td>
<td>5.5 yrs</td>
<td>5 yrs</td>
<td>5 yrs</td>
<td>5 yrs</td>
<td>5 yrs</td>
</tr>
<tr>
<td>Size of dual degree (units)</td>
<td>#88</td>
<td>#88</td>
<td>#88</td>
<td>#80</td>
<td>#80</td>
<td>#80</td>
<td>#80</td>
</tr>
<tr>
<td>#56 / #32</td>
<td>#52 / #36</td>
<td>#52 / #36</td>
<td>#56-62 / #32-26</td>
<td>#62 / #18</td>
<td>#60 / #20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Major Type Allowable combinations:

Chemical
- Single ✓ ✓ ✓ ✓ ✓ ✓
- Extended ✓ ✓ ✓

Chemical & Biological
- Dual ✓ ✓

Chemical & Environmental
- Dual ✓ ✓

Chemical & Materials
- Dual ✓ ✓

Chemical & Metallurgical
- Dual ✓ ✓

Civil
- Single ✓ ✓ ✓ ✓ ✓ ✓
- Extended ✓ ✓ ✓

Civil & Environmental
- Dual ✓ ✓

Civil & Geotechnical
- Dual ✓ ✓

Electrical
- Single ✓ ✓ ✓ ✓ ✓ ✓
- Extended ✓ ✓ ✓ ✓ ✓ ✓

Electrical & Biomedical
- Dual ✓ ✓ ✓ ✓

Electrical & Computer
- Dual ✓ ✓ ✓ ✓

Mechanical
- Single ✓ ✓ ✓ ✓ ✓ ✓
- Extended ✓ ✓ ✓

Mechanical & Aerospace
- Dual ✓ ✓

Mechanical & Materials
- Dual ✓ ✓

Mechatronic
- Extended ✓ ✓

Mining
- Single ✓ ✓ ✓ ✓ ✓ ✓
- Extended ✓ ✓ ✓

Mining & Geotechnical
- Dual ✓ ✓ ✓ ✓

Software
- Single ✓ ✓ ✓ ✓ ✓ ✓
- Extended ✓ ✓ ✓

*Not all BSc majors are possible with all BE (Hons) majors. For further advice, see your academic advisor.

**What you need to do:**
Contact Yr1eng@uq.edu.au or call (07) 3346 7881 for an academic advisors appointment. 
More info: www.eait.uq.edu.au/be-dual-programs

BE (Hons) dual program students cannot enroll in some courses. Specific restrictions apply to: ECON1050, ECON1310, MGTS1201, and STAT1201 as these courses are covered in the BE (Hons); you may not receive credit for them.

BE (Hons) with BBusMan, BEcon, BCom, please note:
Students without Mathematics C and/or another high school prerequisite may be required to undertake preparatory courses beyond the 88 units, and may not be able to complete the program in the minimum time frame without overloading or undertaking summer study.

BA Bachelor of Arts
BBiotech Bachelor of Biotechnology
BBusMan Bachelor of Business Management
BCom Bachelor of Commerce
BEcon Bachelor of Economics
BInfTech Bachelor of Information Technology
BMath Bachelor of Mathematics
BSc Bachelor of Science
First year engineering at UQ is a general foundation year. In second year, you declare your engineering major (e.g. Mechanical & Materials, Electrical etc.).

Use these two pages like a checklist and draft your semesters.

1. Complete **ALL** of Part A:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites</th>
<th>Semester(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG1100</td>
<td>Engineering Design</td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ENGG1200</td>
<td>Engineering Modelling &amp; Problem Solving</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MATH1051 OR MATH1071</td>
<td>Calculus &amp; Linear Algebra I</td>
<td>Prerequisite: Maths C or MATH1050</td>
<td>Semester 1 if you have done Maths C (&gt;SA) Semester 2 if you haven’t done Maths C</td>
</tr>
<tr>
<td></td>
<td>Advanced Calculus and Linear Algebra</td>
<td>Prerequisite: At least 6 in MATH1050 or HA in Year 12 Maths C</td>
<td>Semester 1 if you have done Math C (&gt;HA)</td>
</tr>
<tr>
<td>MATH1052 OR MATH1072</td>
<td>Multivariate Calculus &amp; Ordinary Differential Equations</td>
<td>Prerequisite: Maths C or MATH1050</td>
<td>Semester 2 (or Summer Semester)</td>
</tr>
<tr>
<td></td>
<td>Advanced Multivariate Calculus &amp; Ordinary Differential Equations</td>
<td>Prerequisite: At least 6 in MATH1050 or HA in Yr 12 Maths C (or equivalent)</td>
<td>Semester 2</td>
</tr>
</tbody>
</table>

2. Complete at least **one** of Part B:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites</th>
<th>Semester(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG1300</td>
<td>Introduction to Electrical Systems</td>
<td>Recommended Prerequisites: Maths C &amp; Senior Physics</td>
<td>Semester 1 or 2</td>
</tr>
<tr>
<td>ENGG1400</td>
<td>Statics and Dynamics</td>
<td>Prerequisite: Maths C (&gt;SA) or MATH1050</td>
<td>Semester 1 if you have done Maths C (&gt;SA) Semester 2 if you haven’t done Maths C</td>
</tr>
<tr>
<td>ENGG1500</td>
<td>Engineering Thermodynamics</td>
<td>Recommended Prerequisite: Senior Physics or PHYS1171</td>
<td>Semester 1 or 2</td>
</tr>
</tbody>
</table>

**Prerequisite** = knowledge and skills required before taking the course. For example, you must have achieved greater than a Sound (SA) in Maths C at high school (or equivalent) before you enrol in MATH1051.

**International students** are expected to maintain a full-time enrolment of 4 courses (#8) per semester and must seek academic advice before cancelling enrolment in any course.

**WARNING**
- Choosing courses is not simple! It requires careful planning.
- Attend an Advice Seminar and ask for help (page 4).
- DUAL DEGREES are even more difficult (page 7).
**Complete high school make-up courses from Part D as relevant.**

You must complete MATH1050 if you have not completed Maths C (>SA) or equivalent.
CHEM1090 and PHYS1171 are necessary if you are planning on doing a university level chemistry or physics course respectively and you did not complete a high school level course.

### Check Off

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Semester(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM1090</td>
<td>Introductory Chemistry = High School (Senior) Chemistry</td>
<td>Semester 1</td>
</tr>
<tr>
<td></td>
<td><em>Not available if you have SA or higher in Senior Chemistry. You will need EAIT Faculty permission to enrol in CHEM1090.</em> (Email: <a href="mailto:enquiries@eait.uq.edu.au">enquiries@eait.uq.edu.au</a>)</td>
<td></td>
</tr>
<tr>
<td>MATH1050</td>
<td>Mathematical Foundations = High School Maths C</td>
<td>Semester 1</td>
</tr>
<tr>
<td></td>
<td>*Not available if you have HA or higher in Maths C.</td>
<td></td>
</tr>
<tr>
<td>PHYS1171</td>
<td>Physical Basis of Biological Systems = High School Physics</td>
<td>Semester 1 or 2</td>
</tr>
<tr>
<td></td>
<td><em>Not available if you have SA or higher in (Senior) Physics. You will need EAIT Faculty permission to enrol in PHYS1171.</em> (Email: <a href="mailto:enquiries@eait.uq.edu.au">enquiries@eait.uq.edu.au</a>)</td>
<td></td>
</tr>
</tbody>
</table>

### 3. Select electives from Part C as applicable:

#### Check Off

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Semester(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL1040</td>
<td>Cells to Organisms</td>
<td>Semester 2</td>
</tr>
<tr>
<td>CHEE1001</td>
<td>Principles of Biological Engineering</td>
<td>Semester 1 ONLY</td>
</tr>
<tr>
<td>CHEM1100</td>
<td>Chemistry - Energetics &amp; Reactivity Prerequisite: Senior Chemistry or CHEM1090</td>
<td>Semester 1 or 2</td>
</tr>
<tr>
<td>CSSE1001</td>
<td>Introduction to Software Engineering</td>
<td>Semester 1 or 2</td>
</tr>
<tr>
<td>ENGG1600</td>
<td>Research – The Big Issues</td>
<td>Semester 2 ONLY (By application only)</td>
</tr>
<tr>
<td>ERTH1501</td>
<td>Earth Processes &amp; Geological Materials for Engineers</td>
<td>Semester 1 ONLY</td>
</tr>
<tr>
<td>PHYS1002</td>
<td>Electromagnetism and Modern Physics Prerequisite: Senior Physics or PHYS1171</td>
<td>Semester 1 if you have done Physics and Maths C, Semester 2 if you haven’t done Physics and Maths C</td>
</tr>
</tbody>
</table>

### Semester 1

1. ENGG1100
2.
3.
4.

### Semester 2

1. ENGG1200
2.
3.
4.
To get into a 2nd year engineering discipline, you MUST have these courses:

<table>
<thead>
<tr>
<th>Maths C: Completed &amp; Achieved greater than Sound (SA)</th>
<th>Maths C: Not completed or Achieved Sound (SA) or less</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNDECLARED</strong></td>
<td><strong>UNDECLARED</strong></td>
</tr>
<tr>
<td>Sem 1: ENGG1100, MATH1051, ENGG1400, ENGG1300, MATH1050, ENGG1500, ENGG1100</td>
<td>Sem 1: ENGG1100, MATH1051, ENGG1400, ENGG1300, MATH1050, ENGG1500, ENGG1100</td>
</tr>
<tr>
<td>Sem 2: ENGG1200, MATH1052, ENGG1500, ELECTIVE</td>
<td>Sem 2: ENGG1200, MATH1052, ENGG1500, ELECTIVE</td>
</tr>
<tr>
<td><strong>ELECTIVE</strong></td>
<td><strong>ELECTIVE</strong></td>
</tr>
</tbody>
</table>

1. If you haven’t done High School Chemistry take CHEM1090 in Semester 1 and ENGG1300 in Semester 2;
2. If you haven’t done High School Physics take PHYS1171 in Semester 1 and ENGG1100 in Semester 2;
3. If you might be interested in any chemical engineering major, take CHEM1100;
4. Choose an elective from Part C.

<table>
<thead>
<tr>
<th><strong>CHEMICAL - CHEMICAL &amp; MATERIALS - CHEMICAL &amp; METALLURGICAL</strong></th>
<th><strong>CHEMICAL &amp; ENVIRONMENTAL - CHEMICAL &amp; FOOD (MINOR)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sem 1: ENGG1100, MATH1051, CHEM1100, ENGG1500, ENGG1100, MATH1050, ENGG1500, CHEM1100</td>
<td>Sem 1: ENGG1100, MATH1051, CHEM1100, CHEE1001, ENGG1100, MATH1050, CHEM1100, CHEE1001</td>
</tr>
<tr>
<td>Sem 2: ENGG1200, MATH1052, ENGG1500, ELECTIVE, ELECTIVE</td>
<td>Sem 2: ENGG1200, MATH1052, ENGG1500, ELECTIVE, ELECTIVE</td>
</tr>
<tr>
<td><strong>ELECTIVE</strong></td>
<td><strong>ELECTIVE</strong></td>
</tr>
</tbody>
</table>

1. If you haven’t done High School Chemistry take CHEM1090 in Semester 1 and CHEM1100 in Semester 2;
2. If you haven’t done High School Physics take PHYS1171 in Semester 1 and ENGG1100 in Semester 2;
3. Choose an elective from Part B – ENG1100, ENG1400 or ENG1500; otherwise
4. For Chemical and Metallurgical Engineering: Choose CHEM1090 (Introductory Chemistry) if you haven’t done High School Chemistry
5. For Chemical and Biological Engineering: Choose CHEE1001 (Principles of Biological Engineering) Semester 1 only
6. For Chemical and Biological Engineering: Choose CHEE1001 (Principles of Biological Engineering) Semester 1 only

<table>
<thead>
<tr>
<th><strong>CIVIL - CIVIL &amp; ENVIRONMENTAL - CIVIL &amp; GEOTECHNICAL</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sem 1: ENGG1100, MATH1051, ENGG1400, ELECTIVE, ELECTIVE</td>
</tr>
<tr>
<td>Sem 2: ENGG1200, MATH1052, ELECTIVE, ELECTIVE</td>
</tr>
<tr>
<td><strong>ELECTIVE</strong></td>
</tr>
</tbody>
</table>

1. If you haven’t done High School Physics take PHYS1171;
2. For Civil and Environmental Engineering: Choose CHEM1090 (Introductory Chemistry) if you haven’t done High School Chemistry
3. Choose an elective from Part B or C. Priority choices include: ENG1100, ERTH1501 (Semester 1 only), CHEM1100 (Semester 1 only), CSSE1001

<table>
<thead>
<tr>
<th><strong>ELECTRICAL</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sem 1: ENGG1100, MATH1051, ENGG1300, ELECTIVE, ELECTIVE</td>
</tr>
<tr>
<td>Sem 2: ENGG1200, MATH1052, CSSE1001, ELECTIVE, ELECTIVE</td>
</tr>
<tr>
<td><strong>ELECTIVE</strong></td>
</tr>
</tbody>
</table>

1. If you haven’t done High School Physics take PHYS1171 in Semester 1, putting off ENGG1300 until Semester 2;
2. Take PHYS1002; otherwise
3. Choose ENGG1400

‘Undeclared’ gives you the best flexibility if you don’t know what you want to do yet. If you might be interested in any Chemical Engineering major, take CHEM1100 before Year 2.

ERTH1501 is compulsory for Civil + Geotechnical – but can also be taken in 3rd year

ENGG1500 is compulsory for Civil + Environmental – but can also be taken in 3rd year

**Maths C:**
- Completed & Achieved greater than Sound (SA)
- Not completed or Achieved Sound (SA) or less

- **CIVIL & BIOLOGICAL**
- **CIVIL & ENVIRONMENTAL**
- **CIVIL & GEOTECHNICAL**
- **CHEMICAL - CHEMICAL & MATERIALS - CHEMICAL & METALLURGICAL**
- **CHEMICAL & ENVIRONMENTAL - CHEMICAL & FOOD (MINOR)**
- **CHEMICAL & BIOLOGICAL**
- **CIVIL - CIVIL & ENVIRONMENTAL - CIVIL & GEOTECHNICAL**
- **ELECTRICAL**

- **ELECTIVE**

- **UNDECLARED**

- **ELECTIVE**

- **ELECTIVE**
<table>
<thead>
<tr>
<th>Programme</th>
<th>Sem 1</th>
<th>Sem 2</th>
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</thead>
<tbody>
<tr>
<td><strong>ELECTRICAL &amp; COMPUTER - ELECTRICAL &amp; BIOMEDICAL</strong></td>
<td>ENGI100 MATH1051 ENGI1300 CSSE1001</td>
<td>ENGI100 MATH1050 ENGI1300 CSSE1001</td>
</tr>
<tr>
<td></td>
<td>ENGI1200 MATH1052 PHYS1002</td>
<td>ENGI1200 MATH1051 MATH1052* PHYS1002</td>
</tr>
<tr>
<td><strong>ELECTIVE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. If you haven’t done High School Physics take PHYS1171 in Semester 1, putting off ENGI1300 until Semester 2; otherwise 2. For Electrical and Computer Engineering: Choose INFS1200 (Introduction to Information Systems) 3. For Electrical and Biomedical Engineering: Choose BIOL1020 (Genes, Cells &amp; Evolution) or BIOL1040 (Cells to Organisms) or a Part B course</td>
<td></td>
</tr>
</tbody>
</table>

| **MECHATRONIC**                  | ENGI100 MATH1051 ENGI1300 CSSE1001         | ENGI100 MATH1050 ENGI1300 CSSE1001         |
|                                  | ENGI1200 MATH1052 ENGI1400                 | ENGI1200 MATH1051 MATH1052* ENGI1400      |
| **ELECTIVE**                     |                                            |                                            |
|                                  | 1. If you haven’t done High School Physics take PHYS1171 in Semester 1, putting off ENGI1300 until Semester 2; otherwise 2. Choose PHYS1002 |                                            |

| **MECHANICAL - MECHANICAL & AEROSPACE - MECHANICAL & MATERIALS** | ENGI100 MATH1051 ENGI1400 CSSE1001 | ENGI100 MATH1050 ENGI1500 ENGI1300 |
|                                                              | ENGI1200 MATH1052 ENGI1300 ENGI1400 | ENGI1200 MATH1051 MATH1052* ENGI1400 |
| **ELECTIVE**                                                 |                                            |                                            |
|                                                              | 1. If you haven’t done High School Physics take PHYS1171 in Semester 1; 2. If you haven’t done High School Chemistry take CHEM1090 in Semester 1; otherwise 3. If you have not completed High School Maths C, defer ENGI1300 to 2nd year; 4. Choose an elective from Part C |                                            |

| **MINING - MINING & GEOTECHNICAL**                           | ENGI100 MATH1051 ENGI1400 ERTH1501        | ENGI100 MATH1050 ERTH1501 ELECTIVE         |
|                                                             | ENGI1200 MATH1052 ELECTIVE ENGI1200 ERTH1501 | ENGI100 MATH1051 MATH1052* ERTH1501        |
| **ELECTIVE**                                                |                                            |                                            |
|                                                             | 1. If you haven’t done High School Physics take PHYS1171 in Semester 1; 2. If you haven’t done High School Chemistry take CHEM1090 in Semester 1; otherwise 3. Choose ENGI1300 (Compulsory for Mining and Geotechnical) |                                            |

| **SOFTWARE**                                                | ENGI100 MATH1051 ENGI1300 CSSE1001        | ENGI100 MATH1050 ENGI1300 CSSE1001        |
|                                                             | ENGI1200 MATH1052 ELECTIVE ELECTIVE        | ENGI100 MATH1051 MATH1052* ELECTIVE       |
| **ELECTIVE**                                               |                                            |                                            |
|                                                             | 1. Choose INFS1200 (Introduction to Information Systems) and/or MATH1061 |                                            |

*If you achieve a grade of 4 in MATH1050, we strongly recommend that you don’t attempt both MATH1051 and MATH1052 in Semester 2. Instead you can take MATH1052 in Summer Semester.*
You have a choice of four projects in ENGG1100. Each incorporates different engineering disciplines, so choose a project that interests you.

**Project A:**
**Autonomous Watercraft**
(S1 + P01, P02, P03 or P04)

Motivated by the recent increase in aircraft lost at sea, your team will design, build and demonstrate an autonomous and cost effective water-based search and recovery vehicle. Your craft will detect and recover a submerged black-box.

Disciplines:
- Electrical
- Mechanical
- Mechatronic
- Software

For your timetable select:
- Practical Session P01, P02, P03 or P04 (2 h/w)
- Seminar S01 (1 h/w)
- Lecture L01 or L02 (1 h/w)
- Workshop W01 or W02 (1 h/w)

Please note:
All projects are suitable for all engineering students. There is no expectation from any engineering school that you will have taken a project aligned with your 2nd year choice of discipline.


Join the ENGG1100 Facebook group: www.facebook.com/groups/ENGG1100.2017/

2017 Projects are likely to be different but will retain the essential flavour.
Project B: Water Reuse in Zambia (with EWB: Engineers without borders)
(S2 + P05, P06 or P07)
In Zambia’s Western Province, rapid urbanisation is increasing pressure on the existing water supply system. Teams will design, build and demonstrate a modular treatment system that will allow the recycling of wastewater for multiple purposes, including irrigation and fertiliser use.

Disciplines:
> Chemical
> Biological
> Environmental
> Materials

For your timetable select:
> Practical Session P05, P06 or P07 (2 h/w)
> Seminar S02 (1 h/w)
> Lecture L01 or L02 (1 h/w)
> Workshop W01 or W02 (1 h/w)

---

Project C: Deployable Bridge
(S3 + P08, P09, or P10)
Teams of students will design and prototype a durable bridge that can be flat-packed and deployed to communities who have lost a bridge due to a natural disaster.

Disciplines:
> Civil/Structural
> Environmental
> Materials

For your timetable select:
> Practical Session P08, P09 or P10 (2 h/w)
> Seminar S03 (1 h/w)
> Lecture L01 or L02 (1 h/w)
> Workshop W01 or W02 (1 h/w)

---

Project D: LHD Machine
(No Seminar, P11 only)
A key piece of equipment for underground metalliferous mining is the Load Haul Dump (LHD) machine.
Student teams will research, design, build and demonstrate a scale model of an LHD. The model must have full control: forward, reverse, steering, raising, tilting and lowering a bucket.

Disciplines:
> Electrical
> Mechanical
> Mining

For your timetable select:
> Practical Session P11 (3 h/w)
> NO SEMINAR
> Lecture L01 or L02 (1 h/w)
> Workshop W01 or W02 (1 h/w)
Plan your semester timetable with UQ’s official timetable planner.

Please go to https://timetableplanner.app.uq.edu.au/
You will need your UQ student ID to sign in. (S4xxxxxx and your password)

A. Start with ENGG1100
   > Select your Project and Seminar (Seminars are project specific).
     - Project A (P01, P02, P03 or P04 + S01) Autonomous Watercraft
     - Project B (P05, P06 or P07 + S02) Water Reuse in Zambia
     - Project C (P08, P09, or P10 + S03) Deployable Bridge
     - Project D (P11 only, NO Seminar) LHD Machine
   > Add a lecture stream (L01 or L02)
   > Select a Workshop (W01 or W02)

B. Then add lectures, tutorials etc. for courses that have only one stream first. (e.g. ENGG1400 L01)

C. Finally, add all other lecture streams, tutorials and practicals etc.

D. Check all weeks to ensure you are clash free weeks 1-13. (Some practicals and tutorials run specific weeks only.)

For more details, please see: http://www.uq.edu.au/startingatuq/plan-your-class-timetable
SIGN-ON FOR CLASSES!

1. Go to www.uq.edu.au
   > Current Students
   > mySI-net
   > Log in (S4XXXXXX and your password.)

2. Add your course/s.

3. Go to Sign-On

4. Check the sign-on dates and times for your course/s and add these to your diary.

5. Sign into mySI-net 5 minutes before sign-on opens. Spaces fill up quickly!
   *Don’t forget to check weeks 1-13 for timetable clashes (displayed in red).*

Need help?
> Come to a FYELC Welcome and Timetable Advise Session (See page 4.).
> Or call the FYELC for assistance (07 3346 7881).
FAQS FOR 1ST YEAR

FYELC

What is the FYELC?
First Year Engineering Learning Centre (50-C201) = space for you. Go to: www.eait.uq.edu.au/first-year-learning-centre

Can I eat and drink in the FYELC?
Yes – but you are expected to keep the place clean and tidy.

What else can I do in the FYELC?
> Access 15 dedicated FYELC tutors for first year engineering courses. Each tutor covers multiple engineering courses and are available:
  - **Weeks 1 and 13**: Monday - Friday 11:00am - 1:00pm.
  - **Weeks 2 - 12**: Monday - Friday 9:00am - 3:00pm.
> Meet your first year engineering mentors (Orientation to Week 3).
> Borrow a laptop (Monday - Friday 9:00am - 4:00pm).
> Book the FYELC Booths (Monday - Friday 9:00am - 4:00pm).
> Arrange first year academic advisor appointments.
> Heat up your lunch, refill your water bottle.
> Find out about the latest engineering events.

Tips

Work
We recommend less than 10 hours a week paid work for full time students.

Student Email
Check your student emails regularly. (Your student email is s4XXXXXX@student.uq.edu.au.)

How should I manage my time?
> Read dates carefully as not all practicals/seminars and tutorials are weekly.
> Each course in engineering expects you to do about 10 to 12 hours per week, including contact time. For example, for MATH1051 there are three 1 hour lectures, 1 hour tutorial and a 1 hour practical each week leaving 5-7 hours of study. (Allow 2 hours for every hour of face-to-face contact.)
> Put together a semester and weekly schedule.
> Start each course by understanding how the course is structured, the requirements, learning resources and when the assessments are due.
  - Course profiles: www.uq.edu.au/study
> BE ACTIVE! Attend all lectures, practicals and tutorials - checkout Facebook groups for your courses – participate in learning activities - practise problems - revise and review your work. And if in doubt, ask!
> Utilise all of the learning resources available to you, such as:
  - Course tutors
  - FYELC tutors
  - Online tutorials
  - PASS classes
| What happens if I don't turn up for a lecture or tutorial? | You will need to catch up; talk to your peers and look on Blackboard for what you’ve missed. If it’s a compulsory session, you can lose marks for not attending. Contact your course coordinator for assistance. |
| Where do I hand in my assignments? | Read the course profile: Some submissions will be to the tutor, some online, and some will need a cover sheet for submission to the EAIT Faculty Assignment Centre chute (50-S203, opposite the FYELC). Go to: www.eait.uq.edu.au/current-engineering-students |
| What if my assignment is late? | There are only two allowable reasons: Medical (medical certificate required) and exceptional circumstances. Contact your course coordinator to discuss – the earlier the better. |
| Do I need to have my own laptop? | You can borrow a laptop in the FYELC from 9:00am - 4:00pm, but you cannot take it outside. Ensure you have a USB flash drive clearly labelled with your student ID to store your work. If you are planning on buying a laptop, tablet, external storage or software please go to: https://student.eait.uq.edu.au/ |
| Tag & Testing? | All electrical equipment used within UQ (laptops, chargers etc) must be tested for electrical safety. Timetable: www.eait.uq.edu.au/workshops/test-tag-sessions |
| What calculator can I use? | > For many engineering courses, you will need an approved nonprogrammable calculator for use in exams. You will need to obtain an approval label from Student Centre (JD Story Building, level 1) prior to an exam. > Over 100 calculator models have already been approved for use in exams (Casio FX82 range is preferred). Go to: www.uq.edu.au/myadvisor/exam-calculators |

**Important Dates - For Commencing and Continuing Students**
(Academic Calendar, Teaching Periods, Summer Semester): www.uq.edu.au/startingatuq/important-dates

**Semester 1 Critical Dates**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 February</td>
<td>Classes commence – YES, WE START IN WEEK 1! (Monday 27th February 2017)</td>
</tr>
<tr>
<td>10 March</td>
<td>Last day to add courses</td>
</tr>
<tr>
<td>31 March</td>
<td>Last day to drop courses without financial liability</td>
</tr>
<tr>
<td>30 April</td>
<td>Last day to drop courses without academic penalty</td>
</tr>
</tbody>
</table>

**Save your money and don’t carry on with courses you have ‘given up on’**
But you must formally withdraw:
> By the end of March so you aren’t charged $$ for the course
> By the end of April so you don’t lower your GPA
Compulsory BE (Hons) Requirement

There is one co-curricular compulsory requirement for the BE (Hons): Engineering Professional Practice (EPP).
You must complete 450 hours of professional engineering practice. Of these hours, a minimum of 225 hours must be carried out assisting or under the immediate direction of a professional engineer.

EAIT Faculty provides an industry placement coordinator to assist in connecting EAIT students with industry.

For more details see:
www.eait.uq.edu.au/engineering-professional-practice

Studying Overseas

Engineering students have an opportunity to enhance their degree by studying abroad for 1 or 2 semesters through the UQ Abroad program.

UQ has partnerships with over 150 universities in 37 countries. Students studying overseas remain enrolled at UQ, continue to pay (or defer) fees and earn credit towards their UQ degree. No additional tuition fees are paid to the host university.

Depending on your BE (Hons) specialisation, and the university you go to, you can take equivalent compulsory courses, engineering electives or other electives.

Most engineering students go on exchange after they have completed two years of study. If you would like discipline specific advice, please speak with one of the academic advisors in your specialisation and visit the UQ Abroad website:
www.uq.edu.au/uqabroad

BE (Hons)/ME

The Bachelor of Engineering (Hons) and Master of Engineering (BE(Hons)/ME) is the first five-year engineering degree in Australia to integrate a semester industry or research placement into a degree with Masters-level coursework.

BE(Hons)/ME graduates will have a head start in careers that require specialist skills and adaptability (e.g. in consulting, corporate/government advising or industrial research) or when applying for research higher degrees at the world’s top institutions.

You can apply for this program at the end of year 3. For further information, please go to:
www.eait.uq.edu.au/be-me
The First Year Engineering Mentor Program

Going from high school to university is a big step and we figure the best person to help you with this transition is a student who's been there, done that and is still wearing the t-shirt!

The UQ First Year Engineering Learning Centre (FYELC) connects you with an engineering student mentor who will pass on his or her knowledge and help you adjust to university life.

The mentors can help with everything from finding the cheapest textbooks and tips for lectures to the social side of university life and all that it has to offer.

For more details see: www.facebook.com/groups/EAITFYELC/

Scholarships and Prizes

The University of Queensland offers a number of scholarships.

For more information, go to:

EAIT Scholarships: www.eait.uq.edu.au/scholarships

The University of Queensland Scholarships: http://scholarships.uq.edu.au/

UQ Academic Scholarship Program: http://scholarships.uq.edu.au/program/uq-academic-scholarship-program

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Academic Advice

First Year Academic Advisor
Email: Yr1eng@uq.edu.au
Phone: +61 7 3346 7881

EAIT advisors are happy to answer your questions and provide advice on:

> Credit from previous study
> Late addition of a course
> Withdrawing from a program or course
> Enrolling in more than #8 per semester
> Deferred examinations
> Supplementary assessments
> EAIT Graduation assessment
> Unsatisfactory Academic Progress and Show cause Applications

Full details of engineering academic advisors can be located at: www.eait.uq.edu.au/eng-academic-advice

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The University of Queensland Scholarships: http://scholarships.uq.edu.au/

UQ Academic Scholarship Program: http://scholarships.uq.edu.au/program/uq-academic-scholarship-program
MEMBERSHIPS & STUDENT SOCIETIES

Engineers Australia (EA)
> EA is the largest and most respected representative body for engineering in Australia. EA is responsible for the accreditation of engineering degrees and also for the chartered status of professional engineers. Student membership is free; www.engineersaustralia.org.au

Young Engineers at UQ (YEAUQ)
> YEAUQ organise several events throughout the year such as the Engineering Careers Expo and networking events. YEAUQ aims to help students establish useful contacts within industry, paving the way towards vacation work and graduate employment; www.facebook.com/YEAUQld

Women in Engineering
> Women in Engineering
www.eait.uq.edu.au/we (we@eait.uq.edu.au)

Memberships and Student Societies
Professional bodies support student members through Student Chapters. These chapters provide career guidance, mentoring and assistance in finding vacation work and study resources. As a student member you may be eligible for a variety of prestigious scholarships, awards and special funds.

Professionals Australia
> Professionals Australia focus on issues that affect you in your profession and represent more than 25,000 professionals and students across Australia.
www.professionalsaustralia.org.au
> The Institute of Chemical Engineers (IChemE); www.icheme.org
> Institute of Electrical and Electronics Engineers (IEEE); www.ieee.org
> Australasian Institute of Mining and Metallurgy (Aus/MM); www.ausimm.com.au
> Australian Computer Society; www.acs.org.au

Student Societies
UQ Engineering supports several student clubs. Joining these societies is a great way to meet other students:
> Engineering Undergraduate Society (EUS); www.uqueus.com.au
> Civil Engineering Student Association (CESA); www.uqcesa.com
> Chemical and Environmental Engineering Students Society (CHESS); www.facebook.com/chess.uq
> Electrically Based Engineering Students Society (EBESS); uqebess.com
> Engineers Without Borders (EWB); www.ewb.org.au/explore/chapters/qld/uq
> Mining and Metallurgical Association (MAMA); www.uqmama.com
> Mechanical Engineering Students Society (MESS); www.facebook.com/messuq
> Skirts in Engineering (Women in Engineering); www.facebook.com/uqskirts

EQUITY & DIVERSITY

Student Services

Student Services provides a range of free services to support you during your time at UQ: New2UQ, Accommodation, Learning, Counselling, Disability and Faith.

For further details, go to:

www.uq.edu.au/student-services

Student Support (SHOC)

SHOC (Student Help On Campus) is a free, independent, short term support service for all UQ students. SHOC can provide you with assistance on matters relating to the following services:

- Education and Equity
- Employment
- Gender and Sexuality
- Legal
- Migration
- Welfare

For more details go to:


Student Charter 3.60.01

The purpose of the Student Charter is to set out the University’s commitment to students’ education and experience at UQ, the expectations and responsibilities of all members with respect to conduct; and to provide guidelines to foster a healthy, diverse, creative and high achieving environment within which to study, research and work. More details:

ppl.app.uq.edu.au/content/3.60.01-student-charter

UQ ALLY PROGRAM

The UQ Ally Program is a network of staff who are supportive of lesbian, gay, bisexual, transgender and intersex staff and students.

www.uq.edu.au/equity/uq-allies

UQ Queer Collective

www.facebook.com/uqqc.StLucia
DO YOU NEED HELP?

PERSONAL

UQ HEALTH SERVICES
www.uq.edu.au/healthservice

STUDENT SERVICES
www.uq.edu.au/student-services

STUDENT SUPPORT (SHOC)

HEADSPACE
http://headspace.org.au/

Emailing at UQ must be professional. Email from your UQ student email account, and always include:
1. A salutation (Dear, Good morning etc.)
2. Full name
3. Student ID number (8 digits)
4. Contact details

DO YOU NEED HELP?

ACADEMIC

COURSES

DO YOU NEED HELP?

UQ HEALTH SERVICES
www.uq.edu.au/healthservice

STUDENT SERVICES
www.uq.edu.au/student-services

STUDENT SUPPORT (SHOC)

HEADSPACE
http://headspace.org.au/

Emailing at UQ must be professional. Email from your UQ student email account, and always include:
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4. Contact details

COURSES

BE (Hons) Course List
The courses you have to pass in order to receive your degree. Specifies compulsory and elective courses – www.uq.edu.au/study

Blackboard
Learning management system at UQ. Access via my.UQ under Elearning. Contains assessment information, announcements, updates, some assignment marks and discussion boards for each of your courses.

ASSESSMENT

Course Profile
www.courses.uq.edu.au
Blackboard site
learn.uq.edu.au

HELP

FYECLC Tutor (50-C201)
Weeks 1 and 13: Monday – Friday 11:00am – 1:00pm
Weeks 2 - 12: Monday – Friday 9:00am – 3:00pm

Terminology Explained

BE (Hons) Bachelor of Engineering (Honours)

BE (Hons) Course List The courses you have to pass in order to receive your degree. Specifies compulsory and elective courses – www.uq.edu.au/study

Blackboard Learning management system at UQ. Access via my.UQ under Elearning. Contains assessment information, announcements, updates, some assignment marks and discussion boards for each of your courses.

Course Subject or class (e.g. ENGG1100, MATH1051).

Compulsory Course Course that you must take (e.g. ENGG1100).

Discipline Field of studies or specialisation within engineering (e.g. Civil Engineering).

Dual Degree or Dual Program Combination of two UQ degrees taken at the same time. The BE (Hons) can be taken with Arts, Biotechnology, Business Management, Commerce, Economics, Information Technology, Maths or Science.

Dual Major Combination of two fields within engineering (e.g. BE (Hons) with a dual major in Mechanical and Materials Engineering).

Elective Course A course you choose to complete. There’s a list for the BE (Hons) program. Refer: www.eait.uq.edu.au/bachelor-engineering-electives.
### Extended Major

Like a major, but with an in-depth study. (e.g. BE (Hons) with an extended major in Mining Engineering). An extended major requires #60, specifically in your chosen field.

### Major

A specialisation within engineering (e.g. BE (Hons) majoring in Electrical Engineering with #50 of the #64 for the BE (Hons) coming from the Electrical Engineering course list).

### mySI-net

UQ’s online student enrolment system – [www.sinet.uq.edu.au](http://www.sinet.uq.edu.au)

### Plan

mySI-net calls a discipline (e.g. Mechanical Engineering) a plan; you choose your plan online using mySI-net.

### Prerequisite

A level of knowledge and skill you must have before enrolling in a course. (e.g. You must have MATH1050 or Maths C before you do MATH1051).

### Program

Your program is the Bachelor of Engineering (Hons), unless you chose a dual degree.

### Units (#)

Most courses are 2 units (#2). A full time study load for a semester is #6 or more, so that’s 3 or more courses. Most students do 4 courses, #8 in each semester. International students must do #8.
Faculty of Engineering,
Architecture and Information Technology
General Purpose South Building (78), Level 4
(Temporary location)
Phone: +61 7 3365 4777
Email: enquiries@eait.uq.edu.au
Internet: www.eait.uq.edu.au

School of Chemical Engineering
Don Nicklin Building (74), Level 3
Phone: +61 7 3365 6195
Email: enquiries@chemeng.uq.edu.au
Internet: www.chemeng.uq.edu.au

School of Civil Engineering
Advanced Engineering Building (49), Level 5
Phone: +61 7 3365 3619
Email: enquiries@civil.uq.edu.au
Internet: www.civil.uq.edu.au

School of Information Technology
and Electrical Engineering
General Purpose South Building (78), Level 4
Phone: +61 7 3365 2097
Email: enquiries@itee.uq.edu.au
Internet: www.itee.uq.edu.au

School of Mechanical and Mining Engineering
Frank White Building (43), Level 2
Phone: +61 7 3365 3668
Email: enquiries@mechmining.uq.edu.au
Internet: www.mechmining.uq.edu.au