BACHELOR OF
Engineering (Honours)
FIRST YEAR PROGRAM GUIDE 2019
Welcome

Welcome to the Faculty of Engineering, Architecture and Information Technology.

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BSc, PhD

Associate Dean (Academic)
Associate Professor
Peter Sutton
BSc, BE(Hons), MSc, PhD,
GCEd, MIEEE, MACM

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1st Year Engineering
ENGG1100 Coordinator
Professor Lydia Kavanagh
BE(Hons), MEngSc, PhD,
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1st Year Academic Advisor
Professor
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BE(Hons), MEngSt, MSc

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Dr Peter O’Shea
BE(Hons), DipEd, PhD

ENGG1400 Coordinator
Professor Sritawat
Kitpoomchigi
PhD, FTSE, Fistructe

ENGG1500 Coordinator
Associate Professor
Tony Howes
BE(Hons), PhD, GCEd

ENGG1211 Coordinator
Dr Stephen Hall
BE, MngSci, PhD, MSae

First Year Engineering Project Leader
Ms Angela Bushell
BE, MICD

Manager
First Year Engineering Learning Centre
Ms Lisa Deacon

Administrative Officer
First Year Engineering Learning Centre
Miss Sheryl Owens

We’re here to help.
## Contents

Use the checklist and work your way through the guide.

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</tr>
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<thead>
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<th>Read up on more information</th>
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<td>Studying overseas</td>
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<td>The First Year Engineering Mentor Program</td>
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<tr>
<td>Memberships &amp; Student societies</td>
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<tr>
<td>Equity &amp; diversity</td>
</tr>
<tr>
<td>Do you need help?</td>
</tr>
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<td>Terminology explained</td>
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</table>
# What’s on

Seek advice on your timetable, attend a workshop, get orientated!

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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<td>17</td>
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</tr>
<tr>
<td><strong>JAN</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>21</td>
<td>22</td>
<td>23</td>
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<td>4</td>
<td>5</td>
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<td>7</td>
<td>8</td>
</tr>
<tr>
<td><strong>FEB</strong></td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Bachelor of Engineering (Hons) Welcome and Advice Seminar ★ 1:30-3pm (49-200)</td>
<td>UQ Market Day 10am-2pm (The Great Court) 10am-12pm Let’s get you started workshop (50–C207) Women in Engineering lunch 11:30am-1:30pm (50–C201)</td>
<td>First Year Students BE (Hons) Project Day 8:30am-3pm (27A, Exhibition Hall) Lunch provided. If you have special dietary requirements email <a href="mailto:Yr1Eng@uq.edu.au">Yr1Eng@uq.edu.au</a> by 09/02/2019.</td>
<td>International First Year BE (Hons) Orientation 9am-4pm (50–C201) Lunch provided. If you have special dietary requirements email <a href="mailto:Yr1Eng@uq.edu.au">Yr1Eng@uq.edu.au</a> by 09/02/2019.</td>
</tr>
<tr>
<td>14</td>
<td>First Year Engineering Drop in and Timetable Support Session 9am-3pm (50–C201)</td>
<td>First Year Engineering Drop in and Timetable Support Session 9am-3pm (50–C201)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

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 eait.uq.edu.au/preparation

1. Grab a pen and paper.
2. Go to eait.uq.edu.au/preparation
3. Log on using your UQ login and password and follow the prompts.

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

86% who completed the 2018 Quiz passed all their courses.
Plan ahead

Choosing a Major

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

There are three methods of specialisation in Engineering: Single Major, Dual Major and Extended Major (see table).

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

You can choose ‘Undeclared’ in your first year. The first year of engineering is designed to help you make this choice.

If you are in the BE (Hons) or dual, you can apply to change to the BE (Hons) / ME after completing 16 units (one year). See eait.uq.edu.au/be-me

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

### Field of Study

<table>
<thead>
<tr>
<th>Major</th>
<th>BE (Hons)</th>
<th>BE (Hons) / ME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single 64 units</td>
<td>Dual Major</td>
</tr>
<tr>
<td>Chemical</td>
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<td>✓</td>
</tr>
<tr>
<td>Chemical &amp; Biological</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Chemical &amp; Environmental</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Chemical &amp; Materials</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Chemical &amp; Metallurgical</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Civil</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Civil &amp; Environmental</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Civil &amp; Fire Safety</td>
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<td>✓</td>
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<tr>
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<td>✓</td>
</tr>
<tr>
<td>Electrical</td>
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</tr>
<tr>
<td>Electrical &amp; Biomedical</td>
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</tr>
<tr>
<td>Electrical &amp; Computer</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Mechanical</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Mechanical &amp; Aerospace</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Mechanical &amp; Materials</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
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<td>✓</td>
</tr>
<tr>
<td>Mining</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Mining &amp; Geotechnical</td>
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<td>✓</td>
</tr>
<tr>
<td>Software</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

*From a specified list – Refer uq.edu.au/study
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.

Dual degrees are not available with the integrated BE(Hons)/ME – this is already a combination of two degrees.

<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) / BInfTech</th>
<th>BE (Hons) / BCompSc</th>
<th>BE (Hons) / BSc*</th>
<th>BE (Hons) / BMath</th>
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<td>88</td>
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<td></td>
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<tr>
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<tr>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tbody>
</table>

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

**NOTE:** Only with the BE (Hons) /BSc or the BE (Hons)/ BMath can you still choose any BE (Hons) Major, Extended Major, Dual Major or Major and Minor.

BA Bachelor of Arts
BBioTech Bachelor of Biotechnology
BBusMan Bachelor of Business Management
BCom Bachelor of Commerce
BCompSc Bachelor of Computer Science
BEcon Bachelor of Economics
BInfTech Bachelor of Information Technology
BMath Bachelor of Mathematics
BSc Bachelor of Science

BE (Hons) dual program students cannot enrol in some courses. Specific restrictions apply to: ECON1050, ECON1310, STAT1201 and PHYS1001 as these courses are covered in the BE (Hons); you may not receive credit for them.

BE (Hons) with BBusMan, BEcon, BCom, BBioTech, BInfTech, BCompSc, 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.

**What you need to do:**
Email: Yr1eng@uq.edu.au or call (07) 3346 7881 for an academic advisors appointment.

More info: eait.uq.edu.au/be-dual-programs
Choose your courses

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.

STEP 4

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester</th>
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<tbody>
<tr>
<td>ENGG1100</td>
<td>Engineering Design</td>
<td>Semester 1</td>
</tr>
<tr>
<td>ENGG1200</td>
<td>Engineering Modelling &amp; Problem Solving</td>
<td>Semester 2</td>
</tr>
<tr>
<td>MATH1051 or MATH1071</td>
<td>Calculus &amp; Linear Algebra I</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>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>Semester 2 (or Summer Semester)</td>
</tr>
<tr>
<td></td>
<td>Advanced Multivariate Calculus &amp; Ordinary Differential Equations</td>
<td>Semester 2</td>
</tr>
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</table>

Choose MATH1071/1072 if you are interested in advanced mathematics. A VHA in Math C is strongly recommended.

2. Complete at least one of Part B:

<table>
<thead>
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<th>Course Name</th>
<th>Semester</th>
</tr>
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<tbody>
<tr>
<td>ENGG1300</td>
<td>Introduction to Electrical Systems</td>
<td>Semester 1 or 2</td>
</tr>
<tr>
<td>ENGG1400</td>
<td>Statics and Dynamics</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>Semester 1 or 2</td>
</tr>
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</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.

**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).

International students are expected to maintain a full-time enrolment of 4 courses (8 units) per Semester and must seek academic advice before cancelling enrolment in any course.
3. 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>Code</th>
<th>Course Description</th>
<th>Prerequisites</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
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<td>CHEM1090</td>
<td>Introductory Chemistry = High School (Senior) Chemistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Not available if you have SA or higher in Senior Chemistry. You will need EAIT Faculty permission to enrol in CHEM1090. (Email: <a href="mailto:enquiries@eait.uq.edu.au">enquiries@eait.uq.edu.au</a>)</td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>MATH1050</td>
<td>Mathematical Foundations = High School Maths C</td>
<td>*Not available if you have HA or higher in Maths C.</td>
<td>Semester 1</td>
</tr>
<tr>
<td>PHYS1171</td>
<td>Physical Basis of Biological Systems = High School (Senior) Physics</td>
<td>*Not available if you have SA or higher in Senior Physics. You will need EAIT Faculty permission to enrol in PHYS1171. (Email: <a href="mailto:enquiries@eait.uq.edu.au">enquiries@eait.uq.edu.au</a>)</td>
<td>Semester 1 or 2</td>
</tr>
</tbody>
</table>

4. Select electives from Part C as applicable:

Check Off

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Description</th>
<th>Prerequisites</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL1040</td>
<td>Cells to Organisms</td>
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<td></td>
</tr>
<tr>
<td>CHEE1001</td>
<td>Principles of Biological Engineering</td>
<td></td>
<td>Semester 1 ONLY</td>
</tr>
<tr>
<td>CHEM1100</td>
<td>Chemistry - Energetics &amp; Reactivity</td>
<td>Prerequisite: Senior Chemistry or CHEM1090</td>
<td>Semester 1 or 2</td>
</tr>
<tr>
<td>CSSE1001</td>
<td>Introduction to Software Engineering</td>
<td></td>
<td>Semester 1 or 2</td>
</tr>
<tr>
<td>ENGG1600</td>
<td>Research – The Big Issues</td>
<td></td>
<td>Semester 2 ONLY</td>
</tr>
<tr>
<td>ERTH1501</td>
<td>Earth Processes &amp; Geological Materials for Engineers</td>
<td></td>
<td>Semester 1 ONLY</td>
</tr>
<tr>
<td>PHYS1002</td>
<td>Electromagnetism and Modern Physics</td>
<td>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. 

Need help? See pages 10/11 for discipline specific advice.
To get into a 2nd year engineering discipline, you must have these courses:

- **Chemical and Metallurgical Engineering**: Choose an elective from Part C - ERTH1501 (Earth Processes & Geological Materials for Engineers) Semester 1 only.
- **Chemical and Biological Engineering**: Choose CHEE1001 (Principles of Biological Engineering) Semester 1 only.

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

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### Chemical - Chemical & Materials - Chemical & Metallurgical Engineering - Chemical & Food (Minor)

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### Chemical & Biological Engineering

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### Civil - Civil & Environmental - Civil & Geotechnical

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### Electrical

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<td>MATH1052*</td>
<td>CSSE1001</td>
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</table>

### Electives

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

### CIVIL & ENVIRONMENTAL

- Choose ENGG1400.

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

UNDECLARED

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<td>MATH1052*</td>
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</table>

For Chemical and Biological Engineering: Choose CHEE1001 (Principles of Biological Engineering) Semester 1 only.

For Chemical and Metallurgical Engineering: Choose an elective from Part C - ERTH1501 (Earth Processes & Geological Materials for Engineers) Semester 1 only.

### ELECTIVE

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

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.
### ELECTRICAL & BIO-MEDICAL

<table>
<thead>
<tr>
<th>Sem 1</th>
<th>ENGG1100</th>
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<td>PHYS1002</td>
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</table>

**Elective**
1. If you haven’t done High School Physics take PHYS1171 in Semester 1, putting off ENGG1300 until Semester 2; otherwise
2. For Electrical and Computer Engineering: Choose INFS1200 (Introduction to Information Systems); and
3. For Electrical and Biomedical Engineering: Choose BIOL1020 (Genes, Cells & Evolution) or BIOL1040 (Cells to Organisms) or a Part B course.

### MECHATRONIC

<table>
<thead>
<tr>
<th>Sem 1</th>
<th>ENGG1100</th>
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**Elective**
1. If you haven’t done High School Physics take PHYS1171 in Semester 1;
2. Choose PHYS1002.

### MECHANICAL - MECHANICAL & AEROSPACE - MECHANICAL & MATERIALS

<table>
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<td>MATH1052*</td>
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</table>

**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 an elective from Part C.

### MINING - MINING & GEOTECHNICAL

<table>
<thead>
<tr>
<th>Sem 1</th>
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<th>MATH1051</th>
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</table>

**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 ENGG1300 (Compulsory for Mining); or
4. Choose ENGG1500 or an elective from Part C.

### SOFTWARE

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</table>

**Elective**
1. Choose INFS1200 (Introduction to Information Systems) and/or MATH1061.

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*Math 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.*
Choose your ENGG1100 project

You have a choice of four projects in ENGG1100. Each incorporates different engineering disciplines, so choose a project that interests you.

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.

For project updates, please visit: eait.uq.edu.au/first-year-eng-students

---

Project A:
Radioactive Waste Collection

Motivated by a recent nuclear power plant failure, your team will design, build and demonstrate an autonomous and cost effective land-based search and recovery vehicle. Your craft will detect and recover radioactive material.

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)

---

Project B:
Water Purification, East Santo, Vanuatu (with Engineers without Borders)

The availability of water in East Santo, Vanuatu, is highly dependant on the season with careful rationing required in the four-month dry season.

Your challenge is to design and prototype a simple, low cost treatment system that will produce drinking water from local river water when rainwater supplies run low.

Disciplines:
- Chemical
- Biological
- Environmental
- Humanitarian
- 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)
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)

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Project C:
Movable Span Pedestrian Bridge

The Brisbane City Council is undertaking a large transformation in the Oxley Creek catchment that will enhance recreation opportunities whilst preserving the area’s delicate ecology.

You are required to design and prototype an aesthetically-pleasing bridge that can be moved in times of flood.

Disciplines:
- Electrical
- Mechanical
- Mining
- Software

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)

---

Project D:
Surface Mining Dragline

Draglines are used in coal strip mining operations to remove overburden material, and thereby uncover and provide access to the coal seam beneath.

You are required to design and prototype a scaled dragline system which optimises the cycle time for moving material.
Plan your timetable

Plan your semester timetable with UQ's official timetable planner.

Go to timetableplanner.app.uq.edu.au
Use your UQ student ID to sign in. (s4xxxxxx and your password)

1. Use ENGG1100
   - Select your Project and Seminar.
     Project A (P01, P02, P03 or P04 + S01)
     Project B (P05, P06 or P07 + S02)
     Project C (P08, P09, or P10 + S03)
     Project D (P11 only, NO Seminar)
   - Add a lecture stream (L01 or L02)
   - Select a Workshop (W01 or W02)

2. Then add lectures, tutorials etc. for courses that have only one stream first. (e.g. ENGG1400 L01)
3. Finally, add all other lecture streams, tutorials and practicals etc.
4. Check all weeks (1-13) to ensure you are clash free. (Some practicals and tutorials run in specific weeks only.)

For more details, please see: uq.edu.au/startingatuq/plan-your-class-timetable
Sign-on for classes!

1. Log on to mySI-net
   - Go to uq.edu.au
     - Current Students
     - mySI-net
     - Log in (s4XXXXXXXX and your password)

2. Add your courses
   - Go to Sign on
   - Check each course for sign on dates and times.
   - Check your timetable across weeks 1-13 for clashes (tutorials and practicals may vary)
   - Sign into mySI-net 10 minutes before sign on opens. Spaces fill up quickly!

3. Sign on dates and times
   Individual courses may vary.

<table>
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<tr>
<th>JAN</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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<tbody>
<tr>
<td></td>
<td>21 Arts courses</td>
<td>22 Science courses (inc. BIOL/CHEM/MATH/PHYS)</td>
<td>23 ENGG1100 ENGG1500</td>
<td>24 Business, Commerce and Economics courses</td>
<td>25</td>
</tr>
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</table>
FAQs for 1st Year

FYEKC

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

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

What else can I do in the FYEKC?
- Access 15 dedicated FYEKC tutors for first year engineering courses
  Each tutor covers multiple engineering courses and are available:
  Weeks 1 and 13  Monday – Friday 11am–1pm
  Weeks 2 – 12  Monday – Friday 9am–3pm
- Meet your first year engineering mentors (Orientation to Week 3)
- Borrow a laptop (Monday – Friday 9am–4pm)
- Book the FYEKC Booths (Monday – Friday 9am–4pm)
- 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 then 10 hours a week paid work for full time students

Student Email
Remember to check your student emails regularly
See its.uq.edu.au/services/student-email for details

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, a 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: my.uq.edu.au/programs-courses
- BE ACTIVE! Attend all lectures, practicals and tutorials – checkout Facebook groups for your courses – participate in learning activities – practice problems – revise and review your work. And if in doubt, ask!
- Utilise all of the learning resources available to you, such as:
  • Course tutors
  • FYEKC tutors
  • Online tutorials
  • PASS classes
  • Learning workshops: uq.edu.au/student-services/learning
### Semester 1 Critical Dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tr>
<td>25 February</td>
<td>Classes commence – YES, WE START IN WEEK 1! (Monday 25 February 2019)</td>
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<tr>
<td>8 March</td>
<td>Last day to add courses</td>
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<tr>
<td>31 March</td>
<td>Last day to drop courses without financial liability</td>
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<tr>
<td>30 April</td>
<td>Last day to drop courses without academic penalty</td>
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</tbody>
</table>

### 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.
- Blackboard – learn.uq.edu.au
- Contacts – uq.edu.au/contacts

### 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: 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 9am–4pm, 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: student.eait.uq.edu.au

**Tag & Testing?** All electrical equipment used within UQ (laptops, chargers etc) must be tested for electrical safety.
Timetable: 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: uq.edu.au/myadvisor/exam-calculators

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

**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) and BE (Hons)/ME 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.

For more details see:

eait.uq.edu.au/engineering-professional-practice

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.

If you’re in the BE(Hons) or BE(Hons) dual degree – you can apply to change to the BE(Hons)/ME after completing 16 units (1 year).

For further information, please go to:

eait.uq.edu.au/be-me

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 units 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:

eait.uq.edu.au/eng-academic-advice
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.

Further details can be located in the FYELC (SO-C201).

Scholarships and prizes

The University of Queensland offers a number of scholarships.

For more information, go to:

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

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

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

Student employability

EAIT Student Employability Team can assist you in building key employability skills through:

- Employer information and job opportunities
- Professional practice opportunities
- Assistance with job applications, resumes and cover letters
- Interview and assessment centre preparation, including practice sessions
- One-on-one consultations tailored to specific employability needs
- Student and industry-led panel evenings, workshops and presentations
- Meet a Mentor Program

For further information, please go to: eait.uq.edu.au/employability

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:

employability.uq.edu.au/global-experiences

Employability.uq.edu.au/
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 encouraged and free; engineersaustralia.org.au/Membership

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; facebook.com/YEAQid

Women in Engineering
- Women in Engineering eait.uq.edu.au/we

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; professionalsaustralia.org.au
- The Institute of Chemical Engineers (IChemE); icheme.org
- Institute of Electrical and Electronics Engineers (IEEE); ieee.org
- Australasian Institute of Mining and Metallurgy (Aus/MM); ausimm.com
- Australian Computer Society; 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); uqueus.com.au
- Civil Engineering Student Association (CESA); facebook.com/CESA.UQ
- Chemical and Environmental Engineering Students Society (ChESS); facebook.com/chess.uq
- Electrically Based Engineering Students Society (EBESS); uqebess.com
- Engineers Without Borders (EWB); ewb.org.au/explore/chapters/qld/uq
- Mining and Metallurgical Association (MAMA); uqmama.com
- Mechanical Engineering Students Society (MESS); facebook.com/messuq
- Skirts in Engineering (Women in Engineering); facebook.com/uqskirts

Visit eait.uq.edu.au/eng-student-societies for more details
Equity & diversity

Student Services
Student Services provides a range of free services to support you during your time at UQ:
- Workshops
- New2UQ
- Accommodation
- International support
- Learning
- Counselling
- Disability
- Faith
For further details, go to: 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: uqu.com.au/student-support

Student Charter 3.60.01
The Student Charter sets out the University’s commitment to students’ education and experience at UQ; the expectations / 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 Network is an award-winning program that provides a visible network of well-informed staff who create a safe, welcoming and inclusive space for sex, gender and sexuality diverse people at UQ and in the broader community.
staff.uq.edu.au/information-and-services/human-resources/diversity/sexuality/ally-network
Do you need help?

PERSONAL

UQ HEALTH SERVICES
uqhealthcare.org.au

STUDENT SERVICES
uq.edu.au/student-services

STUDENT SUPPORT (SHOC)
uqu.com.au/student-support

HEADSPACE
headspace.org.au

COURSES

Details
- Lecturer
- Tutor
- Blackboard
- Course Profile

ASSESSMENT
Course Profile
my.uq.edu.au/programs-courses
Blackboard site
learn.uq.edu.au

HELP
FYELC Tutors (50-C201)
Weeks 1 and 13: Monday – Friday 11am–1pm
Weeks 2 - 12: Monday – Friday 9am–3pm

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

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 – my.uq.edu.au/programs-courses

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: eait.uq.edu.au/bachelor-engineering-electives.
ACADEMIC

GENERAL ADVICE

FIRST YEAR ENQUIRIES
First Year Engineering Learning Centre
Academic Advisor Appointments
BE(Hons) Tutor and Mentor Program
FYELC Manager
Hawken Engineering Building (50-C201)
Email: Yr1Eng@uq.edu.au
Phone: (07) 3346 7881
Internet: eait.uq.edu.au/first-year-eng-students

EAIT Faculty Office
Hawken Engineering Building (50-S204)
Email: enquiries@eait.uq.edu.au
Phone: (07) 3365 4666

STUDENT ID CARD
Go to my.edu.au/starting-at-uq/
prepare-for-semester/student-id-cards

FEES/CALCULATOR APPROVAL
Student Centre
Phone: (07) 3365 2600
my.uq.edu.au/contact/student-centre
JD Story Building (61) Level 1

TIMETABLE ISSUES
Attend a FYELC Welcome (see page 4)
Email: Yr1Eng@uq.edu.au (ENGG1100 only)
Email your course coordinator via mySI-net

ADMINISTRATION

GENERAL ADVICE

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 units, specifically in your chosen field).

Major
A specialisation within engineering (e.g. BE (Hons) majoring in Electrical Engineering with 52 of the 64 units for the BE (Hons) coming from the Electrical Engineering course list.).

Field of Study
UQ uses “Major” for Bachelor degrees and “Field of Study” for Masters degrees.

mySI-net
UQ’s online student enrolment system – 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. A full time study load for a semester is 6 units or more, so that’s 3 or more courses. Most students do 4 courses, 8 units in each semester. International students must do 8 units.