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# University of Queensland

Faculty of Engineering, Architecture  
and Information Technology

Master of Engineering Science programme

[https://www.uq.edu.au/study/plan.html?acad\\_plan=UNDECX5528](https://www.uq.edu.au/study/plan.html?acad_plan=UNDECX5528)

## Commencing semesters, 2017

Semester 1

Semester 2

### Program level

Postgraduate Coursework

### Program code

5528

### Faculty

[Engineering, Architecture & Information Technology](#)

### School

School of Mechanical & Mining Engineering

### Location

St Lucia

### Delivery mode

Internal

## Enquiries

### Australian/domestic students

Faculty of Engineering, Architecture and Information Technology

**Email:** [enquiries@eait.uq.edu.au](mailto:enquiries@eait.uq.edu.au)

**Phone:** 07 3365 4777

### International students

International Student Advisor

**Email:** [study@uq.edu.au](mailto:study@uq.edu.au)

**Phone:** Outside Australia: + 61 3 8676 7004

Within Australia (Free Call): 1800 671 980

## Why study Undeclared?

The MEngSc Undeclared specialisation provides graduates with advanced skills in engineering analysis and problem solving. It is suitable for those interested in solving advanced technical challenges, managing projects and overseeing teams. Students of

this plan develop greater understanding of complex engineering challenges and gain practical experience and knowledge of advanced engineering tools and processes by working through case studies and on individual projects relevant to their field. Students will acquire mathematical and experimental skills and advanced materials knowledge to address and solve complex engineering problems. This specialisation builds on knowledge taught in undergraduate engineering programs and has been designed to produce engineers that will lead their companies and industries into the future.

Fields of study available include:

- Chemical Engineering
- Civil Engineering
- Materials Engineering
- Mechanical Engineering
- Mechatronic Engineering

## Courses

A student is required to obtain for the MEngSc (#16 units) (Undeclared Plan code UNDECX5528), #16 comprising:

- #6 from Part A;
- one field of study comprising #4 or #8 from Part B; and
- balance from Part C.

## Part A

(Core)

| Course Code              | Units | Course Title                           |
|--------------------------|-------|--|
| <a href="#">ENGG7600</a> | 2     | Advanced Engineering Practice          |
| <a href="#">ENGG7601</a> | 2     | Experimental Design                    |
| <a href="#">MATE7001</a> | 2     | Environmental Performance of Materials |

## Part B

**Field: Chemical Engineering**

Maximum #8 from:

| Course Code              | Units | Course Title                          |
|--------------------------|-------|---------------------------------------|
| <a href="#">ENGG7240</a> | 4     | Engineering Project 4A <sup>[1]</sup> |
| <a href="#">ENGG7241</a> | 4     | Engineering Project 4A <sup>[2]</sup> |
| <a href="#">ENGG7242</a> | 4     | Engineering Project 4A <sup>[2]</sup> |

| Course Code              | Units | Course Title                          |
|--------------------------|-------|---------------------------------------|
| <a href="#">ENGG7244</a> | 4     | Engineering Project 4B                |
| <a href="#">ENGG7281</a> | 8     | Engineering Project 8A <sup>[2]</sup> |
| <a href="#">ENGG7282</a> | 8     | Engineering Project 8A <sup>[2]</sup> |

### Field: Civil Engineering

Maximum #8 from:

| Course Code              | Units | Course Title                          |
|--------------------------|-------|---------------------------------------|
| <a href="#">ENGG7240</a> | 4     | Engineering Project 4A <sup>[1]</sup> |
| <a href="#">ENGG7241</a> | 4     | Engineering Project 4A <sup>[2]</sup> |
| <a href="#">ENGG7242</a> | 4     | Engineering Project 4A <sup>[2]</sup> |
| <a href="#">ENGG7281</a> | 8     | Engineering Project 8A <sup>[2]</sup> |
| <a href="#">ENGG7282</a> | 8     | Engineering Project 8A <sup>[2]</sup> |

### Field: Materials Engineering

Maximum #8 from:

| Course Code              | Units | Course Title                          |
|--------------------------|-------|---------------------------------------|
| <a href="#">ENGG7240</a> | 4     | Engineering Project 4A <sup>[1]</sup> |
| <a href="#">ENGG7241</a> | 4     | Engineering Project 4A <sup>[2]</sup> |
| <a href="#">ENGG7242</a> | 4     | Engineering Project 4A <sup>[2]</sup> |
| <a href="#">ENGG7244</a> | 4     | Engineering Project 4B                |
| <a href="#">ENGG7281</a> | 8     | Engineering Project 8A <sup>[2]</sup> |
| <a href="#">ENGG7282</a> | 8     | Engineering Project 8A <sup>[2]</sup> |

### Field: Mechanical Engineering

Maximum #8 from:

| Course Code              | Units | Course Title                          |
|--------------------------|-------|---------------------------------------|
| <a href="#">ENGG7240</a> | 4     | Engineering Project 4A <sup>[1]</sup> |
| <a href="#">ENGG7241</a> | 4     | Engineering Project 4A <sup>[2]</sup> |
| <a href="#">ENGG7242</a> | 4     | Engineering Project 4A <sup>[2]</sup> |
| <a href="#">ENGG7280</a> | 8     | Engineering Project 8A <sup>[1]</sup> |
| <a href="#">ENGG7281</a> | 8     | Engineering Project 8A <sup>[2]</sup> |
| <a href="#">ENGG7282</a> | 8     | Engineering Project 8A <sup>[2]</sup> |

### Field: Mechatronic Engineering

Maximum #8 from:

| Course Code              | Units | Course Title                                      |
|--------------------------|-------|---|
| <a href="#">ENGG7802</a> | 4     | Engineering Postgraduate Project B <sup>[1]</sup> |

| Course Code              | Units | Course Title                                      |
|--------------------------|-------|---|
| <a href="#">ENGG7803</a> | 4     | Engineering Postgraduate Project B <sup>[2]</sup> |
| <a href="#">ENGG7804</a> | 4     | Engineering Postgraduate Project B <sup>[2]</sup> |
| <a href="#">ENGG7280</a> | 8     | Engineering Project 8A <sup>[1]</sup>             |
| <a href="#">ENGG7281</a> | 8     | Engineering Project 8A <sup>[2]</sup>             |
| <a href="#">ENGG7282</a> | 8     | Engineering Project 8A <sup>[2]</sup>             |

## Part C

| Course Code              | Units | Course Title                                     |
|--------------------------|-------|--|
| <a href="#">ENGG7302</a> | 2     | Advanced Computational Techniques in Engineering |
| <a href="#">ENGG7602</a> | 2     | Advanced Engineering Laboratory Techniques       |
| <a href="#">MATE7013</a> | 2     | Advanced Manufacturing                           |
| <a href="#">METR7203</a> | 2     | Control Engineering 2                            |
| <a href="#">PLAN7901</a> | 2     | Principles of Project Management                 |
| <a href="#">PLAN7902</a> | 2     | Applications of Project Management               |

Courses offered on an occasional basis -

| Course Code              | Units | Course Title                              |
|--------------------------|-------|---|
| <a href="#">CHEE7600</a> | 2     | Special Topics in Chemical Engineering    |
| <a href="#">CIVL7603</a> | 2     | Special Topics in Civil Engineering       |
| <a href="#">MATE7605</a> | 2     | Special Topics in Materials Engineering   |
| <a href="#">MECH7900</a> | 2     | Special Topics in Mechanical Engineering  |
| <a href="#">METR7603</a> | 2     | Special Topics in Mechatronic Engineering |

## End notes

- [1] Code for students completing the course in one semester.
- [2] This course is offered over more than one semester. Enrol in the same course code in each semester.

## What it costs

Please view the [Master of Engineering Science](#) for indicative fees.

## How to apply

Please view the [Master of Engineering Science](#) for information on key dates and how to apply.