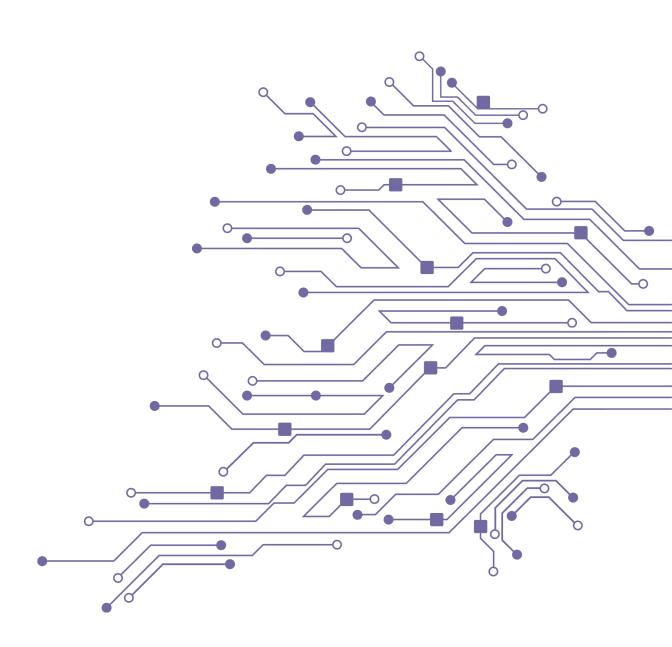


MARS Course Guide 2023



Contents

1	Introduction 1.1 About MARS	2
2	Membership	3
3	Recommended Enrolment Plan 3.1 Bachelor of Engineering (Honours)	4 5
4	Course Profiles	7
5	Electives	8
6	Sponsors	9

Introduction

The 2023 UQ MARS Subject Guide has been created to guide all MARS members through their degree. This is a comprehensive guide that will present suggested program structures, enrolment plans, course profiles, and offer the chance to inform students of the specific pathways available within Mechatronics Engineering. We will aim to give specialised advice from our Exec team and various UQ MARS Alumni regarding study advice, course selection and general career advice.

The **UQ Mechatronics and Robotics Society** is also commmitted to not just Mechatronics Engineering students, but also various student engineers studying in adjacent fields; This includes Electrical, Mechanical, Computer, Software specialisations, as well as people in similar degrees such as Computer Science and I.T.

The guide will be divided into the following sections:

The **Recommended Enrolment Plan** is a template made by the MARS execs to provide a simple enrolment plan and leaves rooms for electives as desired.

Course Reviews and Advice contains specific details and advice for courses required in the BE(Hons) in Mechatronic Engineering and the BE/ME programs, alongside some courses in the Computer Engineering Major; as a lot of our members take these as electives.

About MARS

Membership

Recommended Enrolment Plan

We understand that it can be confusing and/or time consuming to plan out how to best structure the courses in your program. To make the process as simple as possible, we've provided a recommended enrolment plan for the Mechatronics course plans available at UQ. Please note that this is just a suggestion, and you may need to adjust the plan to account for the electives that you choose.

Bachelor of Engineering (Honours)

Program Structure

First Year				
Semester 1	MATH1051 or MATH1071	ENGG1100	CSSE1001	ELECTIVE
Semester 2	MATH1052 or MATH1072	ENGG1300	ENGG1700	CSSE2010

Second Year					
Semester 1	MATH2001	MECH2300	ELEC2300	MATH2010	STAT2201
Semester 2	MECH2100	MECH2210	ELEC2004	METR2800	

Third Year					
Semester 1	METR3001	MAJOR	MAJOR	MAJOR	
Semester 2	METR4810	MAJOR	MAJOR	MAJOR	

Fourth Year				
Semester 1	METR4201	METR4202	MAJOR	MAJOR
Semester 2	ENGG4900	METR4911 or METR4212		ELECTIVE

Major Options

Within the Bachelor of Engineering (Honours) Mechatronics specialisation, there are 2 majors to choose from:

- Computer Engineering
- Mining Engineering

Computer Engineering

To complete the computer engineering major under mechatronics, you must take the following 8 courses:

• COMP3506 • ELEC3004

• CSSE2002 • MECH3200

• CSSE2310 • CSSE4010

• CSSE3010 • CSSE4011

Mining Engineering

To complete the mining engineering major under mechatronics, you must take the following 8 courses:

• ELEC3004 • MINE3123

• MECH2300 • MINE3129

• MINE3110 • MINE4124

• MINE3122 • MINE4129

Bachelor of Engineering (Honours) and Master of Engineering

Course Profiles

Electives

Sponsors