



# Recommended Enrolment Plans for Students Commencing Bachelor of Engineering (Hons) Dual Degrees in Semester 1, 2022.

This document provides course selection information recommended enrolment plans for students commencing the Bachelor of Engineering (Hons) Dual Degrees in Semester 1, 2022. This is intended to be used in conjunction with other resources provided at:

- <https://www.eait.uq.edu.au/current-students/manage-your-program/bachelor-engineering-honours/dual-degree-program-structure>
- <https://www.eait.uq.edu.au/current-students/manage-your-program/undergraduate-program-study-plans-and-resources/first-year-bachelor-engineering-honours>

## Not sure which Engineering Specialisation you want to do?

If you are enrolled in a dual degree and you are not sure which engineering specialisation you would like to complete, your dual program will require careful planning to ensure that you are able to complete your program within the specified duration and without doing any more courses than are required.

As such it is recommended that you meet with an academic advisor to assist you to choose your courses for your first semester.

## Already know which Engineering Specialisation you want to do?

If you already know which engineering specialisation you want to do, two enrolment plans are provided for each of the six specialisations: one for those who have completed high school Specialist Mathematics (or equivalent), and one for those who have not. These enrolment plans typically allow for two courses from your non-Engineering degree to be completed in your first year.

If you have not completed High School Specialist Mathematics, some plans recommend that you complete MATH1052 during Summer Semester at the end of first year as the best way to progress (particularly if your dual program is the B.Mathematics, BSc(Mathematics) or BSc(Physics)). If you cannot do this, you should meet with an academic advisor prior to the commencement of second semester to discuss your study plan.

If you have not completed High School Physics or High School Chemistry, and your Specialisation requires you to complete either of the University catch-up courses (PHYS1171 and CHEM1090), it is recommended that you make an appointment with an academic advisor prior to the commencement of first semester to help you select your courses.

## Need to Make and Academic Advising Appointment?

The details of how to make an academic advising appointment are provided here: <https://www.eait.uq.edu.au/first-year-engineering-academic-advice>

## Selecting your Semester 1 Mathematics Course

All students should enrol in one of MATH1050, MATH1051 or MATH1071 in their first semester of the BE(Hons). Figure 1 below provides a guide to identifying which course to enrol in based on the mathematics you completed at high school in Queensland (or [interstate/international equivalent](#)).

- Where the most appropriate course is MATH1050, refer to the plans below labelled “Not Completed Specialist Mathematics with a grade of C or above”.
- Where the most appropriate course is MATH1051, refer to the plans below labelled “Completed Specialist Mathematics with a grade of C or above”.
- Where the most appropriate course is MATH1071, refer to the plans below labelled “Completed Specialist Mathematics with a grade of C or above”; and substitute MATH1071 in the place of MATH1051 (similarly, if you choose to do MATH1072 in semester 2, substitute this in the place of MATH1052).

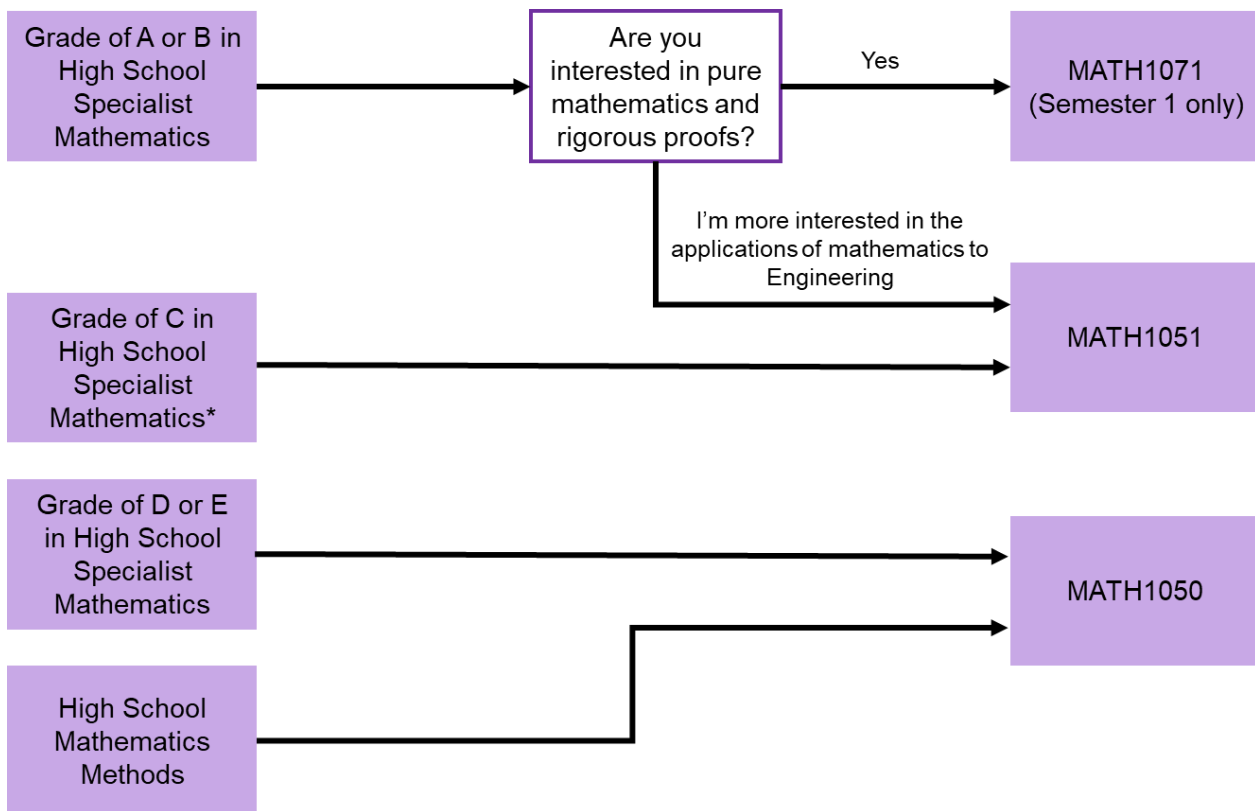


Figure 1: Guide to selecting your mathematics course in the first semester of the BE(Hons) based on high school mathematics, grade and interest. \* Students with a Grade of C in High School Specialist Mathematics can choose to enrol in MATH1050 if they are not confident in their mathematics ability (i.e., it's a long time since you completed high school). If this applies to you, and you are finding MATH1051 difficult, you can change your enrolment to MATH1050 during the first two weeks of semester.



## Selecting your Programming Course (ENGG1001 or CSSE1001)

All students are required to complete a programming course in their first year. Both ENGG1001 and CSSE1001 teach foundations of programming in Python and share substantial resources. These courses are considered equivalent, and you can proceed to any specialisation with either course. However, to help you choose:

- CSSE1001 teaches programming in a computing context; and is recommended if you are intending on continuing to Specialisations in Electrical or Software Engineering.
- ENGG1001 teaches programming in the context of engineering modelling problems; and is recommended if you are intending on continuing to Specialisations in Civil, Chemical or Mechanical Engineering; or are in the Flexible First Year.
- If you are intending on continuing to a Specialisation in Mechatronic Engineering, choose whichever course interests you the most.



## Dual Degree with Specialisation in Chemical Engineering

### Not Completed High School Specialist Mathematics with a grade of C or above.

<b>Semester 1</b> (February)	ENGG1100	MATH1050	ENGG1500	Dual Degree Course
<b>Semester 2</b> (July)	ENGG1001	MATH1051	CHEM1100	Dual Degree Course

- No High School Chemistry? Seek academic advice to plan your program.
- MATH1052 must be taken in Summer Semester, or Semester 1 of Year 2.
- If your dual program is with B.Mathematics, B.Sc(Mathematics) or B.Sc(Physics), and you are unable to complete MATH1052 in Summer Semester, you should seek academic advice prior to the commencement of Semester 2 to plan your program.
- If your dual program is with B.InfTech, it is recommended that your enrol in CSSE1001 instead of ENGG1001.
- If your dual program is with B.CompSci, it is recommended that you enrol in CSSE1001 in Semester 1 (rather than ENGG1001 in Semester 2); and then complete two dual degree courses (MATH1061 and INFS1200) in Semester 2.

### Completed High School Specialist Mathematics with a grade of C or above.

<b>Semester 1</b> (February)	ENGG1100	MATH1051	ENGG1500	Dual Degree Course
<b>Semester 2</b> (July)	ENGG1001	MATH1052	CHEM1100	Dual Degree Course

- No High School Chemistry? Seek academic advice to plan your program.
- If your dual program is with B.InfTech, it is recommended that your enrol in CSSE1001 instead of ENGG1001.
- If your dual program is with B.CompSci, it is recommended that you enrol in CSSE1001 in Semester 1 (rather than ENGG1001 in Semester 2); and then complete two dual degree courses (MATH1061 and INFS1200) in Semester 2.



## Dual Degree with Specialisation in Civil Engineering

Not Completed High School Specialist Mathematics with a grade of C or above.				
Semester 1 (February)	ENGG1100	MATH1050	ENGG1700	Dual Degree Course
Semester 2 (July)	ENGG1001	MATH1051	MATH1052	Dual Degree Course
<ul style="list-style-type: none"> <li>No High School Physics? Seek academic advice to plan your program.</li> <li>If you achieve a grade of 4 in MATH1050, it is strongly recommended to do MATH1052 in Summer Semester (i.e. after MATH1051).</li> <li>If your dual program is with B.Mathematics, B.Sc(Mathematics) or B.Sc(Physics), and you are unable to complete MATH1052 in Semester 2 or Summer Semester, you should seek academic advice prior to the commencement of Semester 2 to plan your program.</li> <li>If your dual program is with B.InfTech, it is recommended that your enrol in CSSE1001 instead of ENGG1001.</li> <li>If your dual program is with B.CompSci, it is recommended that you enrol in CSSE1001 in Semester 1 (rather than ENGG1001 in Sem 2); and then complete two dual degree courses (MATH1061 and INFS1200) in Semester 2.</li> </ul>				

Completed High School Specialist Mathematics with a grade of C or above.				
Semester 1 (February)	ENGG1100	MATH1051	ENGG1700	Dual Degree Course
Semester 2 (July)	ENGG1001	MATH1052	Engineering Elective or Dual Degree Course	Dual Degree Course
<ul style="list-style-type: none"> <li>No High School Physics? Seek academic advice to plan your program.</li> <li>If your dual program is with B.InfTech, it is recommended that your enrol in CSSE1001 instead of ENGG1001.</li> <li>If your dual program is with B.CompSci, it is recommended that you enrol in CSSE1001 in Semester 1 (rather than ENGG1001 in Semester 2); and then complete two dual degree courses (MATH1061 and INFS1200) in Semester 2.</li> </ul>				



## Dual Degree with Specialisation in Electrical Engineering

Not Completed High School Specialist Mathematics with a grade of C or above.				
Semester 1 (February)	ENGG1100	MATH1050	ENGG1300	Dual Degree Course
Semester 2 (July)	CSSE1001 (Or ENGG1001)	MATH1051	MATH1052	Dual Degree Course
<ul style="list-style-type: none"> <li>No High School Physics? Seek academic advice to plan your program.</li> <li>If you achieve a grade of 4 in MATH1050, it is strongly recommended to do MATH1052 in Summer Semester (i.e. after MATH1051).</li> <li>If your dual program is with B.Mathematics, B.Sc(Mathematics) or B.Sc(Physics), and you are unable to complete MATH1052 in Semester 2 or Summer Semester, you should seek academic advice prior to the commencement of Semester 2 to plan your program.</li> <li>If your dual program is with B.InfTech, it is recommended that your enrol in CSSE1001 instead of ENGG1001.</li> <li>If your dual program is with B.CompSci, it is recommended that you enrol in CSSE1001 in Semester 1 (rather than Semester 2); and then complete two dual degree courses (MATH1061 and INFS1200) in Semester 2</li> </ul>				

Completed High School Specialist Mathematics with a grade of C or above.				
Semester 1 (February)	ENGG1100	MATH1051	ENGG1300	Dual Degree Course
Semester 2 (July)	CSSE1001 (Or ENGG1001)	MATH1052	Engineering Elective or Dual Degree Course	Dual Degree Course
<ul style="list-style-type: none"> <li>No High School Physics? Seek academic advice to plan your program.</li> <li>If your dual program is with B.InfTech, it is recommended that your enrol in CSSE1001 instead of ENGG1001.</li> <li>If your dual program is with B.CompSci, it is recommended that you enrol in CSSE1001 in Semester 1 (rather than Semester 2); and then complete two dual degree courses (MATH1061 and INFS1200) in Semester 2.</li> </ul>				



## Dual Degree with Specialisation in Mechanical Engineering

Not Completed High School Specialist Mathematics with a grade of C or above.				
Semester 1 (February)	ENGG1100	MATH1050	ENGG1700	Dual Degree Course
Semester 2 (July)	ENGG1001	MATH1051	ENGG1500	Dual Degree Course
<ul style="list-style-type: none"> <li>ENGG1300 must be completed in year 2 or 3.</li> <li>No High School Physics? Seek academic advice to plan your program.</li> <li>No High School Chemistry? Seek academic advice to plan your program.</li> <li>MATH1052 must be taken in Summer Semester, or Semester 1 of Year 2.</li> <li>If your dual program is with B.Mathematics, B.Sc(Mathematics) or B.Sc(Physics), and you are unable to complete MATH1052 in Summer Semester, you should seek academic advice prior to the commencement of Semester 2 to plan your program.</li> <li>If your dual program is with B.InfTech, it is recommended that your enrol in CSSE1001 instead of ENGG1001.</li> <li>If your dual program is with B.CompSci, it is recommended that you enrol in CSSE1001 in Semester 1 (rather than ENGG1001 in Semester 2); and then complete two dual degree courses (MATH1061 and INFS1200) in Semester 2.</li> </ul>				

Completed High School Specialist Mathematics with a grade of C or above.				
Semester 1 (February)	ENGG1100	MATH1051	ENGG1700	Dual Degree Course
Semester 2 (July)	ENGG1001	MATH1052	ENGG1500	Dual Degree Course
<ul style="list-style-type: none"> <li>ENGG1300 must be completed in year 2 or 3.</li> <li>No High School Physics? Seek academic advice to plan your program.</li> <li>No High School Chemistry? Seek academic advice to plan your program.</li> <li>If your dual program is with B.InfTech, it is recommended that your enrol in CSSE1001 instead of ENGG1001.</li> <li>If your dual program is with B.CompSci, it is recommended that you enrol in CSSE1001 in Semester 1 (rather than ENGG1001 in Semester 2); and then complete two dual degree courses (MATH1061 and INFS1200) in Semester 2.</li> </ul>				



## Dual Degree with Specialisation in Mechatronic Engineering

Not Completed High School Specialist Mathematics with a grade of C or above.				
<b>Semester 1</b> (February)	ENGG1100	MATH1050	ENGG1300	Dual Degree Course
<b>Semester 2</b> (July)	ENGG1001 or CSSE1001	MATH1051	ENGG1700	Dual Degree Course
<ul style="list-style-type: none"> <li>No High School Physics? Seek academic advice to plan your program.</li> <li>MATH1052 should be taken in Summer Semester or Semester 1 of Year 2.</li> <li>If your dual program is with B.Mathematics, B.Sc(Mathematics) or B.Sc(Physics), and you are unable to complete MATH1052 in Summer Semester, you should seek academic advice prior to the commencement of Semester 2 to plan your program.</li> <li>If your dual program is with B.InfTech, it is recommended that your enrol in CSSE1001 instead of ENGG1001.</li> <li>If your dual program is with B.CompSci, it is recommended that you enrol in CSSE1001 in Semester 1 (rather than ENGG1001 in Semester 2); and then complete two dual degree courses (MATH1061 and INFS1200) in Semester 2.</li> </ul>				

Completed High School Specialist Mathematics with a grade of C or above.				
<b>Semester 1</b> (February)	ENGG1100	MATH1051	ENGG1300	Dual Degree Course
<b>Semester 2</b> (July)	ENGG1001 or CSSE1001	MATH1052	ENGG1700	Dual Degree Course
<ul style="list-style-type: none"> <li>No High School Physics? Seek academic advice to plan your program.</li> <li>If your dual program is with B.InfTech, it is recommended that your enrol in CSSE1001 instead of ENGG1001.</li> <li>If your dual program is with B.CompSci, it is recommended that you enrol in CSSE1001 in Semester 1 (rather than ENGG1001 in Semester 2); and then complete two dual degree courses (MATH1061 and INFS1200) in Semester 2.</li> </ul>				





## Dual Degree with Software Engineering

<b>Not Completed High School Specialist Mathematics with a grade of C or above.</b>				
<b>Semester 1</b> (February)	ENGG1100	CSSE1001 (Or ENGG1001)	MATH1050	Dual Degree Course
<b>Semester 2</b> (July)	MATH1051	MATH1052	ENGG1300	Dual Degree Course
<ul style="list-style-type: none"><li>• If you achieve a grade of 4 in MATH1050, it is strongly recommended to do MATH1052 in Summer Semester.</li><li>• If your dual program is with B.Mathematics, B.Sc(Mathematics) or B.Sc(Physics), and you are unable to complete MATH1052 in Semester 2 or Summer Semester, you should seek academic advice prior to the commencement of Semester 2 to plan your program.</li></ul>				

<b>Completed High School Specialist Mathematics with a grade of C or above.</b>				
<b>Semester 1</b> (February)	ENGG1100	CSSE1001 (Or ENGG1001)	MATH1051	Dual Degree Course
<b>Semester 2</b> (July)	MATH1052	ENGG1300	MATH1061 or INFS1200 or Dual Degree Course	Dual Degree Course