

Science

Bachelor of Materials Science and Engineering (3131) - [Handbook](#)

2025 Commencing Students
Program Structure



Single Degree Mode

| | | | |
|----------------------|-----------------------|--------------------|---------|
| PROGRAM STRUCTURE | Material Science Core | 168 UOC | 192 UOC |
| | General Education | 12 UOC (2 courses) | |
| | Free Electives | 12 UOC (2 courses) | |

General Education must be taken from courses that are not considered [Science Electives](#) or courses taught by the Faculty of Engineering.

Material Science students cannot take GENS or GENE courses under any circumstance.

Free Electives are courses from any Faculty at UNSW including Science, but cannot be GEN-branded courses

Bachelor of Materials Science and Engineering (3131)



2025 Commencing Students – Single Degree – Materials Engineering ([MATSM1](#))

Choose from available proposed courses in each year

| Year 1 | | |
|--------------------------|--------------------------|----------------------|
| CHEM1811 (T1) | CHEM1821 (T2) | MATS1192 (T1, T3) |
| PHYS1121 (T1, T2, T3) | MATH1231 (T1, T2, T3) | DESN1000 (T1, T3) |
| MATH1131 (T1, T2, T3) | ENGG1811 (T1, T2, T3) | |

| Year 2 | | |
|------------------|------------------------|----------------------|
| MATS2001 (T1) | MATS2004 (T2) | MATH2089 (T1, T3) |
| MATS2003 (T1) | MATS2008 (T2) | MATS2009 (T3) |
| MATH2019 (T1) | 6 UOC Free Elective | |

| Year 3 | | |
|------------------|------------------|----------------------------|
| MATS3001 (T1) | MATS3004 (T2) | MATS3008 (T3) |
| MATS3002 (T1) | MATS3006 (T2) | 6 UOC General Education |
| MATS3005 (T1) | MATS3007 (T2) | 6 UOC Free Elective |

| Year 4 | | |
|--|----------------------------|--|
| MATS4014 (TBC) | MATS4015 (TBC) | 6 UOC Discipline Elective (See Note 1) |
| MATS4025 (4 UOC) | MATS4026 (4 UOC) | MATS4027 (4 UOC) |
| 6 UOC Discipline Elective (See Note 1) | 6 UOC General Education | ENGG4999 Industrial Training (0 UOC) |

| NOTES | |
|-------|--|
| | This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here. |
| | See Program Structure on page 1 for a guide on the terminology and colour codes used in this progression plan. |
| | Note 1: MATS4004, MATS4007, MATS4016, MATS4017, MATS4018, MATS4019 |
| | ENGG4999 Industrial Training: Students must complete a minimum of 60 days of Industrial Training to graduate. Industrial Training must be undertaken concurrently with enrolment in the program. |