

Science

# Bachelor of Materials Science and Engineering (Honours) / Biomedical Engineering (3133) - [Handbook](#)



2026 Commencing Students  
Program Structure

## Single Degree Mode

PROGRAM STRUCTURE	Material Science Core	168 UOC (28 Courses)	240 UOC (40 Courses)
	Biomedical Engineering Core	72 UOC (12 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 (Honours) / Biomedical Engineering (3133)



2026 Commencing Students – Single Degree ([MATSM1](#))

Choose from available proposed courses in each year

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

Year 2		
MATS2001 (T1)	MATS2004 (T2)	MATH2089 (T1, T3)
MATS2003 (T1)	MATS2008 (T2)	MATS2009 (T3)
MATH2019 (T1)	Elective (See Note 2)	

Year 3		
MATS3001 (T1)	MATS3004 (T2)	MATS3008 (T3)
MATS3002 (T1)	MATS3006 (T2)	ANAT2511 (T3)
MATS3005 (T1)	BIOM9420 (T2)	

Year 4		
MATS4015 (TBC)	MATS3007 (T2)	6 UOC Biomedical Engineering Courses (See Note 3)
BIOM4951 (4 UOC)	BIOM4952 (4 UOC)	BIOM4953 (4 UOC)
PHSL2121 (T1)	6 UOC Biomedical Engineering Courses (See Note 3)	6 UOC Biomedical Engineering Courses (See Note 3)

Year 5		
MATS4014 (TBC)	6 UOC Discipline Elective (See Note 1)	6 UOC Discipline Elective (See Note 1)
BIOM9410 (T1)	6 UOC Biomedical Engineering Courses (See Note 3)	Elective (See Note 2)
6 UOC Biomedical Engineering Courses (See Note 3)	6 UOC Biomedical Engineering Courses (See Note 3)	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 Note 2: The recommended electives are BIOM1010 and PHSL2221 Note 3: BIOM9027, BIOM9311, BIOM9332, BIOM9333, BIOM9450, BIOM9541, BIOM9551, BIOM9561, BIOM9621, BIOM9640, BIOM9650, BIOM9660, BIOM9701, BIOM9711, BIOM9811, BIOM9910, GS0E9712, BIOM9914, BIOM9020, BIOM9021
	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.