

Science

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



2025 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

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2025 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.
	<p>Note 1: MATS4004, MATS4007, MATS4016, MATS4017, MATS4018, MATS4019</p> <p>Note 2: The recommended electives are BIOM1010 and PHSL2221</p> <p>Note 3: BIOM9027, BIOM9311, BIOM9332, BIOM9333, BIOM9450, BIOM9541, BIOM9551, BIOM9561, BIOM9621, BIOM9640, BIOM9650, BIOM9660, BIOM9701, BIOM9711, BIOM9811, BIOM9910, GSOE9712, BIOM9914, BIOM9020, BIOM9021</p> <p>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.</p>