

Science

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

PROGRAM STRUCTURE				

**Compulsory Core Courses & First Year Engineering Electives** are courses taken from the Materials Science component of the degree as defined [here](#)



[Materials Engineering](#), and [Ceramic Engineering](#).

**Biomedical Engineering** are courses taken from the Biomedical Engineering component of the degree as defined [here](#).



# Bachelor of Materials Science and Engineering (Honours) / Biomedical Engineering (3133)



Term 1 2023 Commencing Students – [Physical Metallurgy \(MATSE1\)](#)

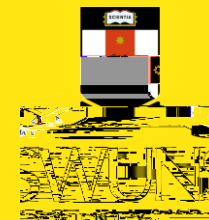
Choose from available proposed courses in each year

Year 1		
<b>MATS1192</b> (T1, T3)	<b>MATH1131</b> (T1, T2, T3) OR <b>MATH1141</b> (T1, T2, T3)	<b>DESN1000</b> (T1, T3)
<b>CHEM1811</b> (T1)	<b>PHYS1121</b> (T1, T2, T3) OR <b>PHYS1131</b> (T1, T2, T3)	<b>MATH1231</b> (T1, T2, T3) OR <b>MATH1241</b> (T1, T2, T3)
<b>ENGG1811</b> (T1, T2, T3) OR <b>COMP1911</b> (T2)	6 UOC First Year Engineering Elective (see Note 1)	

Year 1		



# Bachelor of Materials Science and Engineering (Honours) / Biomedical Engineering (3133)



Term 1 2023 Commencing Students – [Process Metallurgy \(MATSG1\)](#)

Choose from available proposed courses in each year

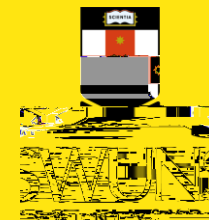
Year 1		
MATS1192 (T1, T3)	MATH1131 (T1, T2, T3) OR MATH1141 (T1, T2, T3)	DESN1000 (T1, T3)
CHEM1811 (T1)	PHYS1121 (T1, T2, T3) OR PHYS1131 (T1, T2, T3)	MATH1231 (T1, T2, T3) OR MATH1241 (T1, T2, T3)
ENGG1811 (T1, T2, T3) OR COMP1911 (T2)	6 UOC First Year Engineering Elective (see Note 1)	

Year 2		
MATS2001 (T1)	MATS2004 (T2)	MATS2006 (T3)
MATS2003 (T1)	MATS2005 (T2)	MATS2007 (T3)
MATH2019 (T1)	MATS2008 (T2)	

Year 3		
MATS3001 (T1)	MATS3004 (T2)	ANAT2511 (T3)
MATS3002 (T1)	MATS3006 (T2)	6 UOC BIOM9XXX Elective (See Note 2)
MATH2089 (T1, T3)	BIOM9420 (T2)	

Year 4		
BIOM4951 = 4 UOC (T1, T2, T3)	BIOM4952 = 4 UOC (Summer, T1, T2, T3)	BIOM4953 = 4 UOC (Summer, T1, T2, T3)
MATS3003 (T1)	MATS4003 (Replace with Metallurgy Prof Elective)	6 UOC Process Metallurgy Prof Elective (See Note 3)
PHSL2121 (T1)	MATS3007 (T2)	6 UOC BIOM9XXX Elective (See Note 2)

<b>NOTES</b>	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: First Year Engineering Elective: BABS1201 (T1, T3), BIOM1010 (T2), BIOS1301 (T1), CEIC1000 (T3), CVEN1701 (T3), ELEC1111 (Summer, T1, T3), ENGG1400 (T2), GMAT1110 (T2), MATH1081 (T1, T2, T3), MATS1101 (T3), MINE1010 (T1, T3), PHYS1231 (T1, T3), PSYC1001 (T1, T2), SOLA1070 (T2), CHEM1021 or CHEM1041, DESN1300, GEOS1111 or GEOS3321, MMAN1300 (N/A), CEIC1001 (N/A), COMP1921 (N/A), PTRL1010 (N/A)</p> <p>Note 2: BIOM9XXX Electives see <a href="#">Handbook</a></p>



# Bachelor of Materials Science and Engineering (Honours) / Biomedical Engineering (3133)

Term 1 2023 Commencing Students – [Materials Engineering \(MATSH1\)](#)

Choose from available proposed courses in each year

Year 1		
MATS1192 (T1, T3)	MATH1131 (T1, T2, T3) OR MATH1141 (T1, T2, T3)	DESN1000 (T1, T3)
CHEM1811 (T1)	PHYS1121 (T1, T2, T3) OR PHYS1131 (T1, T2, T3)	MATH1231 (T1, T2, T3) OR MATH1241 (T1, T2, T3)
ENGG1811 (T1, T2, T3) OR COMP1911 (T2)	6 UOC First Year Engineering Elective (see Note 1)	

Year 2		
MATS2001 (T1)	MATS2004 (T2)	MATS2006 (T3)
MATS2003 (T1)	MATS2005 (T2)	MATS2007 (T3)
MATH2019 (T1)	MATS2008 (T2)	

Year 3		
MATS3001 (T1)	MATS3004 (T2)	ANAT2511 (T3)
MATS3002 (T1)	MATS3006 (T2)	6 UOC BIOM9XXX Elective (See Note 2)
MATH2089 (T1, T3)	BIOM9420 (T2)	

BIOM4951 = 4 UOC (T1, T2, T3)	BIOM4952 = 4 UOC (Summer, T1, T2, T3)	BIOM4953
6 UOC Materials Eng Prof Elective (See Note 3)	6 UOC Materials Eng Prof Elective (See Note 3)	
PHSL2121 (T1)	MATS3007 (T2)	6 UOC BIOM9XXX Elective (See Note 2)

<b>NOTES</b>	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: First Year Engineering Elective: BABS1201 (T1, T3), BIOM1010 (T2), BIOS1301 (T1), CEIC1000 (T3), CVEN1701 (T3), ELEC1111 (Summer, T1, T3), ENGG1400 (T2), GMAT1110 (T2), MATH1081 (T1, T2, T3), MATS1101 (T3), MINE1010 (T1, T3), PHYS1231 (T1, T3), PSYC1001 (T1, T2), SOLA1070 (T2), CHEM1021 or CHEM1041, DESN1300, GEOS1111 or GEOS3321, MMAN1300 (N/A), CEIC1001 (N/A), COMP1921 (N/A), PTRL1010 (N/A)
	Note 2: BIOM9XXX Electives see <a href="#">Handbook</a>
Note 3: Major Specialisation Elective = MATS3003 (T1), MATS3005 (T1), MATS4001 (T2), MATS4002 (T2), MATS400 EM1(2)8(0),16( )88(MA)31(T)31(S400 EM1(2)ET031(S4)9(0	

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