# Combined Bachelor of Medical Science and Bachelor of Engineering (Biomedical) (Honours) 2024 Study Planner



## **Semester 1 Start:**

		BAATII4424	DIOI 1103	CUEB44040*	BARAFDAOOF (LIDNA)
First Level	Semester 1	MATH1121 Mathematics 1A	BIOL1102  Molecular Basis of Life	CHEM1010* Chemistry 1A	MMED1005 (HPNA) How Your Body Works
	Semester 2	ENGR1401 Professional Skills	MATH1122 Mathematics 1B	MMED1007 Histology: The Building Blocks of the Human Body	MMED1008 How Your Cells Work
Level	Semester 1	ENGR1721 Engineering Programming	ENGR2711 Engineering Mathematics	PHYS1101 Fundamental Physics 1A	MDSC1102 Skills for Medical Scientists 1
Second Level	Semester 2	ENGR1201 Electronics	ENGR1722 Engineering Materials and Systems	ENGR2722 Analysis of Engineering Systems	ENGR2732 Biomechanics
Level	Semester 1	ENGR1711 Engineering Design	Electronic/Mechanical Option topic ENGR2731/2741	BIOL2771 Biochemistry	MMED2931 Human Physiology
Third Level	Semester 2	ENGR2772 Sensors and Actuators	BIOL2772 Molecular Biology	MDSC2000 (HPNA/required) Skills for Medical Scientists 2	MMED2932 (HPNA) Integrative Human Physiology
Level	Semester 1	ENGR3711 Control Systems	ENGR3741 Physiological Measurement	Electronic/Mechanical Option topic ENGR2721/3751	MME2933 (HPNA) Fundamental Neuroscience
Fourth Lev	Semester 2	COMP2711 Computer Programming 2	ENGR2742 Biomedical Instrumentation	ENGR9742 Systems Engineering	Biomedical Engineering Honours Option Topic

	NS1	ENGR3750 Workplace Preparation (0 unit)			
Fifth level	Semester 1	ENGR7781 Innovation in Medical Devices	MDSC3000 Skills for Medical Scientists 3	MMED3930 (HPNA) Sensory Motor Systems	MMED3932 (HPNA) Body Systems
	Semester 2	ENGR3700 Engineering Practicum Or ENGR3710 International Engineering Practicum		ENGR9704 Engineering Management (NS2) (Must study NS2 intensive version)	
Level	Semester 1	STEM7003 Research Methods for Engineering and ICT Honours	STEM7004A Honours Research Project (4.5/13.5 units)	Biomedical Engineering Honours Option Topic	MMED3937 (HPNA) Pathophysiology for Medical Science
Sixth Level	Semester 2	STEM7004B Honours Research Project (4.5/13.5 units)	STEM7004C Honours Research Project (4.5/13.5 units)	MMED3931 (HPNA) Advanced Neuroscience	MMED3941 (HPNA) Human Musculoskeletal Anatomy

# Semester 2 Start:

		ENGR1401	MATH1121	MMED1005	MMED1007
<u></u>	r 2	Professional Skills	Mathematics 1A	How Your Body Works	Histology: The Building Blocks of the Human Body
	Semester			S1 or S2	52
First Level	S				MDSC1102, BIOL1102 or ^MMED1005
l "	1	MATH1122	PHYS1101	BIOL1102	CHEM1010*
	Semester	Mathematics 1B	Fundamental Physics 1A	Molecular Basis of Life S1	Chemistry 1A
	Sem				S1 or S2
	2	ENGR1201	ENGR1722	ENGR2722	ENGR2732
		Electronics	Engineering Materials and	Analysis of Engineering	Biomechanics
	Semester		Systems	Systems	
vel	Se				
Second Level		ENGR1721	ENGR2711	MDSC1102	MMED2931
03	7	<b>Engineering Programming</b>	Engineering Mathematics	Skills for Medical	Human Physiology
Se	ster			Scientists 1	C4
	Semester			S1	S1
	Se				36 units completed &
					*assumed knowledge

		ENGR2772	BIOL2772	MMED1008	MDSC2000
		Sensors and Actuators	Molecular Biology	How Your Cells Work:	(HPNA/required)
	7			Fundamentals of Cell	Skills for Medical
	ter		<i>S2</i>	Biology	Scientists 2
	Semester				
	em			<i>S2</i>	S2
ē	Š				
Le ·					18 units completed &
Third Level			BIOL1102 & CHEM1010	BIOL1102	*assumed knowledge
귤		COMP2711	ENGR1711	Electronic/Mechanical	BIOL2771
-		Computer Programming 2	Engineering Design	Option topic	Biochemistry
	Semester 1				,
	ste	S1 or S2, NS2 or SU		ENGR2731/2741	S1
	me	31 01 32, 1132 01 30		2143K2731/2741	31
	Se				
					BIOL1102 & CHEM1010
		FNCD3743	Diamadial E	B484ED2022 /UD3143	
		ENGR2742	Biomedical Engineering	MMED2932 (HPNA)	ENGR9742
		Biomedical	Honours Option Topic	Integrative Human	Systems Engineering
	er 2	Instrumentation		Physiology	
	Semester 2				
	Ĕ			S2	
e e	Se				
ev				MMED2931	
높					
Fourth Level		ENGR3711	ENGR3741	Electronic/Mechanical	MMED2933 (IHPNA)
포	_	Control Systems	Physiological	Option topic	Fundamental
	er J	•	Measurement		Neuroscience
	est			ENGR2721/3751	
	Semester 1			,	<i>S</i> 1
	Š				
					*assumed knowledge
		ENGR3750			
	ĭ	Workplace Preparation (0 u	nits)		
	Workplace Preparation (0 units)				
	7	ENGR3700		ENGR9704	
	ter	Engineering Practicum		Engineering Management (NS2)	
	Engineering Practicum Or ENGR3710 International Engineering Practicum		(Must study NS2 intensive version)		
/el	em	International Engineering Practicum			
<u>je</u>	S				
Fifth level		ENGR7781	MDSC3000	MMED3932 (HPNA)	MMED3930 (HPNA)
正		Innovation in Medical	Skills for Medical	Body Systems	Sensory Motor Systems
	Ĺ	Devices	Scientists 3		
	teı			S1	<i>S</i> 1
	nes		S1		
	Semester 1				
	J,		MDSC1102 and		
			MDSC2000	MMED2931	MMED2933
	1		1112302000		

		STEM7003	STEM7004A	MMED3941 (HPNA)	MMED3931 (HPNA)
	2	Research Methods for	Honours Research Project	Human Musculoskeletal	Advanced Neuroscience
		Engineering and ICT	(4.5/13.5 units)	Anatomy	
	est	Honours		62	S2
	Semester			S2	
_	Š			14145D2022 and	A4A45D2022 6
Sixth Level				MMED3932 and	MMED2933 &
1 3				MMED2931	^MMED3930
듗		STEM7004B	STEM7004C	Biomedical	MMED3937 (HPNA)
ŝ		Honours Research Project	Honours Research Project	Engineering Honours	Pathophysiology for
	r 1	(4.5/13.5 units)	(4.5/13.5 units)	Option Topic	Medical Science
	ste				
	Semester				<i>S</i> 1
	Sei				
					^MMED2931 or
					^MMED2932

### Key:

Core Topics	Compulsory topic BENGBHI
Core Topics	Compulsory topic BMS
Option Topics	A choice from a list of specified topics (please refer to course rule)

<sup>\*</sup>CHEM1010 - Students without Year 12 chemistry or equivalent are encouraged to submit and Ask Flinders request two weeks prior to Semester starting to be assessed for a course rule variation allowing for CHEM1201 General Chemistry to be added to the Study Plan in the place of CHEM1010.

#### Please note:

- This document is provided as a guide only. Students are responsible for ensuring that they have completed their study according to the official <a href="Course Rule">Course Rule</a>.
- Topic information for all topics, including pre-requisites can be found on the <u>Topic Page</u>
- General enrolment assistance is available via Ask Flinders
- For specific course advice e-mail: <a href="mailto:courseadvice.SE@flinders.edu.au">courseadvice.SE@flinders.edu.au</a>