

62550 Master of Professional Engineering Biomedical Engineering (SP-EBIOM)

2 Year Course Study Plan – Commencing Semester 1, 2021

The Level 1, 2 and 3 prerequisites listed below apply to students undertaking preparatory units in the 2 – 3 year MPE.
Students enrolling in the 2-year MPE with 48 points block credit have already satisfied the Level 1, 2 and 3 prerequisites.
Level 4 and 5 prerequisites apply to all students.

Year 1				
Semester 1, 2021	PHYS5401 Medical Imaging Physics <i>Prereq: ANHB5451</i>	SCIE5516 Materials Characterisation for Bioengineering Applications	OPTION	GENG5507* Risk, Reliability and Safety <i>Prereq: MATH1011 and MATH1012</i>
Semester 2, 2021	BMEG4001 Biomedical Instrumentation <i>Prereq: ENSC2003</i>	OPTION	BMEG4003 Cardiovascular Biomechanics <i>Prereq: PHYL2002 or ENSC3023</i>	GENG5505* Project Management and Engineering Practice <i>Prereq: ENSC1001 or ENSC1003</i>
It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio				
Year 2				
Semester 1, 2022	BMEG5551 Biomedical Engineering Design Project 1	BMEG4002 Biomaterials	SSEH4633 Advanced Biomechanical Methods <i>Prereq: SSEH3355 or equivalent engineering or physics unit</i>	GENG5511* Engineering Research Project Part 1 <i>Prereq: 24 points of L4/L5 units</i>
Semester 2, 2022	BMEG5552 Biomedical Engineering Design Project 2 <i>Prereq: BMEG5551</i>	OPTION	BMEG5001 Advanced Topics in Biomedical Engineering <i>Prereq: BMEG4001 or BMEG4002, or BMEG4003</i>	GENG5512* Engineering Research Project Part 2 <i>Prereq: GENG5511</i>
It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio				

* unit is available in Semester 1 and Semester 2

Students take units to a total value of 18 points, comprising either: 12 points from Group A and 6 points from Group B, or 12 points from Group C and 6 points from Group B, or 18 points from Group B:

Group A	
SCIE4001 Collecting, Analysing and Interpreting Big Data in Biology (S1)	SCIE4002 Bioinformatics and Data Analysis for Genomics (S2)
Group B	
BUSN5100 Applied Professional Business Communications (S1, S2)	PUBH5769 Biostatistics II (S1, S2) <i>Prereq: PUBH4401 or equivalent</i>
CITS4402 Computer Vision (S1)	SCIE5515 Global Challenges in Biomedical Science (S1, S2)

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<i>Prereq: CITS2401 and MATH1012 (Note: Students must have the ability to program in a high-level programming language and the ability to reason in linear algebra and calculus.)</i>	
GENG4402 Control Engineering (S2) <i>Prereq: MATH1001 and ENSC2001</i>	SVLG5003 Wicked Problems (NSTP) <i>Note: Enrolment in this unit is subject to approval by the unit coordinators.</i>
GENG4405 Numerical Methods and Modelling (S2) <i>Prereq: CITS2401</i>	

Group C	
MKTG5503 Enterprise and Innovation (NSTP)	MKTG5604 Technology Commercialisation (NSTP) <i>Prereq: MKTG5503</i>

The Rules for the 62550 Master of Professional Engineering can be found at: handbooks.uwa.edu.au/rules-62550-MPE

All units have a value of six points unless otherwise stated.

Information about unit availability should be checked at the beginning of each semester and can be found at: timetable.uwa.edu.au or [Handbooks](#).

Further Help!

Refer to the UniStart website for your step-by-step guide on planning your enrolment: uwa.edu.au/unistart. If you need to discuss your study plan further, please contact the EMS Student Service and Engagement Office: enquiries-ems@uwa.edu.au