

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

2 Year Course Study Plan – Commencing Semester 2, 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 2, 2021	BMEG4001 Biomedical Instrumentation <i>Prereq: ENSC2003</i>	BMEG4003 Cardiovascular Biomechanics <i>Prereq: PHYL2002 or ENSC3023</i>	OPTION	GENG5507* Risk, Reliability and Safety <i>Prereq: MATH1011 and MATH1012</i>
It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio				
Semester 1, 2022	BMEG5551 Biomedical Engineering Design Project 1	OPTION	BMEG4002 Biomaterials	GENG5505* Project Management and Engineering Practice <i>Prereq: ENSC1001 or ENSC1003</i>
Year 2				
Semester 2, 2022	BMEG5552 Biomedical Engineering Design Project 2 <i>Prereq: BMEG5551</i>	BMEG5001 Advanced Topics in Biomedical Engineering <i>Prereq: BMEG4001 or BMEG4002, or BMEG4003</i>	OPTION	GENG5511* Engineering Research Project Part 1 <i>Prereq: 24 points of L4/L5 units</i>
It is recommended students undertake some practical work experience during the summer break to satisfy the GENG5010 Professional Engineering Portfolio				
Semester 1, 2023	SCIE5516 Materials Characterisation for Bioengineering Applications	SSEH4633 Advanced Biomechanical Methods <i>Prereq: SSEH3355 or equivalent engineering or physics unit</i>	PHYS5401 Medical Imaging Physics <i>Prereq: ANHB5451</i>	GENG5512* Engineering Research Project Part 2 <i>Prereq: GENG5511</i>

* 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>
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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