

**BIOMEDICAL ENGINEERING - Double Honours**

Double Honours Degree Requirements	MCs	Remarks	Classification
<b>(A) University Level Requirements</b>			
General education modules:			
GER1000 Quantitative Reasoning	4	Only 1 set needs to be completed for both BEng and BBA degrees. May be replaced by selected USP, RVRC or UTCP modules.	CA
GEQ1000 Asking Questions	4		CA
GET	4		CA
GEH	4		CA
GES	4		CA
<b>Sub-total for University Level Requirements</b>	<b>20</b>		
<b>(B) Engineering Programme Requirements</b>			
Faculty requirements:			
EG2401A Engineering Professionalism	2		C1
Foundation requirements:			
BN1111 Biomedical Engineering Principles and Practice I	4		C1
BN2111 Biomedical Engineering Principles and Practice II	4		C1
MA1511 Engineering Calculus	4		C1
MA1512 Differential Equations for Engineering	2		C1
MA1513 Linear Algebra with Differential Equations	2		C1
CS1010E Programming Methodology	4		C1
EE2211 Introduction to Machine Learning	4		C1
EG1311 Design and Make	4		C1
IE2141 Systems Thinking and Dynamics	4		C1
MLE1010 Materials Engineering Principles & Practices	4		C1
BME core modules:			
CM1501 Organic Chemistry for Engineers or CM1121 Basic Organic Chemistry	4		C1
PC1432 Physics IIE	4		C1
BN2102 Bioengineering Data Analysis	4		C1
BN2201 Quantitative Physiology for Bioengineers	4		C1
BN2204 Fundamentals of Biomechanics	4		C1
BN2301 Biochemistry and Biomaterials for Bioengineers	4		C1
BN2403 Fundamentals of Biosignals and Bioinstrumentation	4		C1
BME project and internship modules:			
BN3101 Biomedical Engineering Design	6		C1
BN4101 B.Eng. Dissertation	8		C1
EG3611A Industrial Attachment	-	Exempted for DDP students	-
BME pathway requirements and electives:			
BME pathway requirement 1	4		C1
BME pathway requirement 2	4		C1
<b>Sub-total for Engineering Programme Requirements</b>	<b>88</b>		
<b>(C) Business Programme Requirements</b>			
Business preparatory modules:			
BPM1701 Calculus and Statistics	0	These modules must be completed within the first semester after matriculation or first semester of commencing the DDP for mid-stream DDP students.	-
BPM1702 Microsoft Excel Skills for Business	0		-
BPM1705 Understanding How Business Works	0		-
STR1000 Career Creation Starter Workshops	0		-
STR2000 Career Creation Starter Clinics	0		-
Global Immersion and Study	-	May be fulfilled through student exchange, overseas internship, case competition, or study trip.	-
BBA core modules:			
ACC1701 Accounting for Decision Makers	4		C2
BSP1702 Legal Environment of Business	4		C2
BSP1703 Managerial Economics	4		C2
BSP2701 Global Economy	2		C2
BSP3701 Strategic Management	4		C2
DAO1704 Decision Analytics Using Spreadsheets	4		C2
DAO2702 Programming for Business Analytics	4		C2
DAO2703 Operations and Technology Management	4		C2
FIN2704 Finance	4		C2
MKT1705 Principles of Marketing	4		C2
MNO1706 Organisational Behaviour	4		C2
MNO2705 Leadership and Decision Making under Uncertainty	4		C2
BBA electives / specialisation modules:			
BBA elective 1	4	It is not compulsory for DDP students to do a specialisation, but those who wish take up a specialisation will need to complete 24 MCs of specialisation modules.	C2
BBA elective 2	4		C2
Honours requirements:			
BHD4001 Dissertation or 3 Level 4000 BBA modules	12		C2
FSP4003 Field Service Project	8	Must not be related to dissertation research area.	C2
<b>Sub-total for Business Programme Requirements</b>	<b>74</b>		
<b>(D) Common Modules</b>			
ES2531 Critical Thinking and Writing	4	Replaces ES2002 Business Communication for Leaders (BBA). Can also be replaced by UWC2101% (for USP students), ES1601 (for RVRC students), or UTW2001% (for UTCP students).	CA
BEng module 1	4	Select from list of Common Modules.	CA
BEng module 2	4		CA
BBA module 1	4		CA
BBA module 1	4		CA
<b>Sub-total for Common Modules</b>	<b>20</b>		
<b>TOTAL (minimum)</b>	<b>202</b>		