

Recommended Study Plan

A suggested course schedule for BEng in Materials Engineering (For Normative 4 year students admitted to BEngMAE Major in 2016/17)

Year 1

Sem A (credit unit)		Sem B (credit unit)	
MA1200/1300	Calculus and Linear Basic Algebra I / Enhanced Calculus and Linear Algebra I (3)	MA1201/1301	Calculus and Basic Linear Algebra II/ Enhanced Calculus and Linear Algebra II (3)
AP1200*	Foundation Physics (0)	CS1102/1302	Introduction to Computer Studies/ Introduction to Computer Programming (3)
AP1201#	General Physics I (3)		
		BCH1100#	Chemistry (3)
AP1202	General Physics II (3)	AP1203	General Physics III (3)
Gateway Education Course (3)		Gateway English (3)	
Chinese Civilisation – History and Philosophy (3)			
Gateway English (3)			
Sub-total = 18 units		Sub-total = 15 units	

Year 1 Total = 33 units

**Optional for students who would like to strengthen their background*

College Requirement course

Year 2

Sem A (credit unit)		Sem B (credit unit)		Summer (credit unit)	
AP2102	Introduction to Materials Engineering (3)	AP3169	Materials Testing Techniques (3)	AP2243	Workshop Practice (3)
AP2104	Mechanics of Solids (3)	AP3172	Electronic Properties of Solids (3)		
MA2158/	Linear Algebra and Calculus (3)/ Multi-variable Calculus and Linear Algebra (3)/ Applied Statistics for Sciences and Engineering (3)/ Engineering Mathematics and Statistics (3)/ Mathematical Methods for Engineering (3)	MBE2016	Engineering Graphics (3)		
MA2001/		Free Elective 2 (3)			
MA2172/		AP3110	Deformation and Fracture (3)		
MA2177/					
MA2181					
Free Elective 1 (3)					
Gateway Education Course (3)					
Sub-total = 15 units		Sub-total = 15 units		Sub-total = 3 units	
Year 2 Total = 33 units					

Remarks: More update version please refer to <http://www.ap.cityu.edu.hk/index.aspx?id=20061213174918&lang=e> for details

Year 3

Sem A (credit unit)		Sem B (credit unit)		Summer (credit unit)	
AP3171	Materials Characterization Techniques (3)	AP3109	Kinetic Processes in Engineering Materials (3)	FS4002 (elective B4) #	Industrial Attachment Scheme (3)
AP3190	Thermodynamics of Materials (3)	AP3244	Design Laboratory (3)		
Elective A1 (3)		Elective A3 (3)			
Elective A2 (3)		Elective A4 (3)			
Gateway Education Course (3)		Free Elective 3 (3)			
Sub-total = 15 units		Sub-total = 15 units		Sub-total = 0 or 3 units	
Year 3 Total = 30 or 33 units					

FS4002 can be considered as elective B4

Year 4

Sem A (credit unit)		Sem B (credit unit)	
AP4116	Dissertation (3)	AP4116	Dissertation (3)
AP4101	Materials Engineers in Society (3)	Elective B3 (3)	
Elective B1 (3)		Elective B4 (3)	
Elective B2 (3)			
Gateway Education Course (3)			
Sub-total = 15 units		Sub-total = 9 or 6 units	
Year 4 Total = 24 or 21 units			

Remarks: More update version please refer to

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On top of the above 75 required credits in major requirement, students have to satisfy the degree requirement of 30 credits in Gateway Education and 6 credits in College Requirement as specified by the University and 9 credits Free Electives.