

Recommended Study Plan

A suggested course schedule for BEng (Hons) Materials Engineering (For HKDSE students admitted to CityU in 2013-14 and admitted to BEngMAE major in 2014-15)

Year 2

Sem A (credit unit)		Sem B (credit unit)		Summer (credit unit)	
AP1202	General Physics II (3)	#AP1203	General Physics III (3)	AP2243	Workshop Practice (3)
AP2102	Introduction to Materials Engineering (3)	AP3169	Materials Testing Techniques (3)		
MA2158/ MA2170/ MA2172/ MA2177/ MA2181	Linear Algebra and Calculus (3)/ Linear Algebra and Multi-variable Calculus (3)/ Applied Statistics for Sciences and Engineering (3)/ Engineering Mathematics and Statistics (3)/ Mathematical Methods for Engineering (3)	MBE2016	Engineering Graphics (3)		
*AP1200	<i>Foundation Physics</i>				
*AP1201	<i>General Physics I</i>				
*BCH1100	<i>Chemistry</i>				
Sub-total = 9 units		Sub-total = 9 units		Sub-total = 3 units	
Year 2 Total = 21 units					

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

Availability subject to approval

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)	
AP2104	Mechanics of Solids (3)	AP3109	Kinetic Processes in Engineering Materials (3)	FS4002 (elective B5)	Industrial Attachment Scheme (3)
AP3171	Materials Characterization Techniques (3)	#AP3244	Design Laboratory (tba) (3)		
AP3172	Electronic Properties of Solids (3)	Elective A2 (3)			
AP3190	Thermodynamics of Materials (3)	Elective A3 (3)			
Elective A1 (3)		Sub-total = 12 units		Sub-total = 3 units	
Sub-total = 15 units					
Year 3 Total = 27 or 30 units					

Availability subject to approval

Year 4

Sem A (credit unit)		Sem B (credit unit)	
AP4116	Dissertation (3)	AP4116	Dissertation (3)
EE3013	Engineers in Society (0)	Elective B3 (3)	
Elective A4 (3)		Elective B4 (3)	
Elective B1 (3)		Elective B5 (3)	
Elective B2 (3)			
Sub-total = 12 units		Sub-total = 9 or 12 units	
Year 4 Total = 21 or 24 units			

On top of the above 72 required credits in major requirement, students have to satisfy the degree requirement of 30 credits in Gateway Education and 15 credits in College Requirement as specified by the University and 3 credits Free Electives.

Recommended Study Plan

A suggested course schedule for BEng (Hons) Materials Engineering (For AS I students admitted to BEngMAE major in 2014/15)

Year 2

Sem A (credit unit)		Sem B (credit unit)		Summer (credit unit)	
AP1202	General Physics II (3)	#AP1203	General Physics III (3)	AP2243	Workshop Practice (3)
AP2102	Introduction to Materials Engineering (3)	AP3169	Materials Testing Techniques (3)		
*AP1200	<i>Foundation Physics</i>	MA2158/ MA2170/ MA2172/ MA2177/ MA2181	Linear Algebra and Calculus (3)/ Linear Algebra and Multi-variable Calculus (3)/ Applied Statistics for Sciences and Engineering (3)/ Engineering Mathematics and Statistics (3)/ Mathematical Methods for Engineering (3)		
*AP1201	<i>General Physics I</i>	MBE2016	Engineering Graphics (3)		
*CS1302	<i>Introduction to Computer Programming</i>				
*MA1201	<i>Calculus and Basic Linear Algebra II</i>				
Sub-total = 6 units		Sub-total = 12 units		Sub-total = 3 units	
Year 1 Total = 21 units					

*Optional for students who would like to strengthen their background

Availability subject to approval

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Year 3

Sem A (credit unit)		Sem B (credit unit)		Summer (credit unit)	
AP2104	Mechanics of Solids (3)	AP3109	Kinetic Processes in Engineering Materials (3)	FS4002 (elective B5)	Industrial Attachment Scheme (3)
AP3171	Materials Characterization Techniques (3)	#AP3244	Design Laboratory (tba) (3)		
AP3172	Electronic Properties of Solids (3)	Elective A2 (3)			
AP3190	Thermodynamics of Materials (3)	Elective A3 (3)			
Elective A1 (3)					
Sub-total = 15 units		Sub-total = 12 units		Sub-total = 3 units	
Year 2 Total = 27 or 30 units					

Year 4

Sem A (credit unit)		Sem B (credit unit)	
AP4116	Dissertation (3)	AP4116	Dissertation (3)
EE3013	Engineers in Society (0)	Elective B3 (3)	
Elective A4 (3)		Elective B4 (3)	
Elective B1 (3)		Elective B5 (3)	
Elective B2 (3)			
Sub-total = 12 units		Sub-total = 9 or 12 units	
Year 3 Total = 21 or 24 units			

Availability subject to approval

On top of the above 72 required credits in major requirement, students have to satisfy the degree requirement of 21 credits in Gateway Education as specified by the University.

Recommended Study Plan

A suggested course schedule for BEng (Hons) Materials Engineering (For AS II students admitted to BEngMAE major in 2014-15)

Year 3

Sem A (credit unit)		Sem B (credit unit)		Summer (credit unit)	
AP2102	Introduction to Materials Engineering (3)	AP3109	Kinetic Processes in Engineering Materials (3)	AP2243	Workshop Practice (3)
AP3171	Materials Characterization Techniques (3)	AP3169	Materials Testing Techniques (3)		
AP3172	Electronic Properties of Solids (3)	MA2158/ MA2170/ MA2172/ MA2177/ MA2181	Linear Algebra and Calculus (3)/ Linear Algebra and Multi-variable Calculus (3)/ Applied Statistics for Sciences and Engineering (3)/ Engineering Mathematics and Statistics (3)/ Mathematical Methods for Engineering (3)		
AP3190	Thermodynamics of Materials (3)	MBE2016	Engineering Graphics (3)		
*AP1201	<i>General Physics I</i>	Elective A1 (3)			
*AP1200	<i>Foundation Physics</i>	*CS1302	Introduction to Computer Programming		
*MA1201	<i>Calculus and Basic Linear Algebra II</i>				
Sub-total = 12 units		Sub-total = 15 units			
Year 2 Total = 30 units					

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

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

Year 4

Sem A (credit unit)		Sem B (credit unit)		Summer (credit unit)	
AP2104	Mechanics of Solids (3)	#AP3244	Design Laboratory (tba) (3)	FS4002 (elective B5)	Industrial Attachment Scheme (3)
AP4116	Dissertation (3)	AP4116	Dissertation (3)		
EE3013	Engineers in Society (0)	Elective A4 (3)			
Elective A2 (3)		Elective B3 (3)			
Elective A3 (3)		Elective B4 (3)			
Elective B1 (3)		Elective B5 (3)			
Elective B2 (3)					
Sub-total = 18 units		Sub-total = 15 or 18 units			
Year 4 Total = 36 units					

Availability subject to approval

On top of the above 66 required credits in major requirement, students have to satisfy the degree requirement of 12 credits in Gateway Education as specified by the University.