

PHY587	Құрылыстық материалдар мен нанотехнологиялар	БП, ЖООК	4	4	3	150	20/1*	105	E							4	
M - II. R&D модулі																	
PHY599	Биологиялық материалдардың микроқұрылымы	БП, ТК	5	5	3	150	1/1/1/	105	E							5	
PHY560	Рентгендік дифракция және электронды микроскопиялық талдау						1/1/1/										
M - 12. Тәжірибеге бағытталған модуль																	
ААР102	Өндірістік практика I	БП, ЖООК	2	2	2							2					
ААР183	Өндірістік практика II	БП, ЖООК	3	3	3									3			
M - 13. Қорытынды аттестатив модулі																	
ЕСА109	Дипломдық жұмыстарды/проекттерді жазу және қорғау	ҚА	8	8	8											8	
M - 14. Оқытудың қосымша түрлерінің модулі																	
ААР500	Әскери даяндау	ОҚТ	0														
УНИВЕРСИТЕТ бойынша жылына:				182	119							28	32	28	31	33	27
												60	59	60			

Гонконг қалалық университеті, САР Гонконг, Қытай Халық Республикасы

GE1401	University English	Electives	3														
MA1200/MA1300	Calculus and Basic Linear Algebra I/Enhanced Calculus and Linear Algebra I	Core Courses	3														
PHY1201	General Physics I	Core Courses	3														
MSE2102	Introduction to Materials Science and Engineering	Core Courses	3														
MSE2109	Bonding and Structure of Materials	Core Courses	3														
GE2410	English for Engineering	Electives	3														
MA1201/MA1300	Calculus and Basic Linear Algebra II/Enhanced Calculus and Linear Algebra II	Core Courses	3														
GE1501	Chinese Civilization - History & Philosophy	Electives	3														
PHY1202	General Physics II	Core Courses	3														
CHEM1300	Principles of General Chemistry	Electives	3									3					
MSE2104	Mechanical Behaviour of Materials	Core Courses	3									3					
PHY1203	General Physics III	Core Courses	3									3					
GE 1355	Sustainable Energy and Environmental Engineering	Electives	3									3					
GE2105	Popular Culture	Electives	3									3					
MA2172	Applied Statistics for Sciences and Engineering	Electives	3										3				
MSE2107	Measurement Theory and Application	Core Courses	3										3				
MSE4170	Corrosion and Protection of Materials	Electives	3										3				
CS1302	Introduction to Computer Programming	Electives	3										3				
GE 2106	Philosophy and Life: A Dialogue	Electives	3										3				
GE2138	Introduction to Ethics and Public Policy	Electives	3										3				
MSE3244	Design Laboratory	Core Courses	3										3				
MSE3190	Thermodynamics of Materials	Core Courses	3										3				
MSE3195	Kinetics and Phase Transformations	Electives	3										3				
MSE3111	Ceramic Materials	Electives	3										3				
MSE3110	Deformation and Fracture	Core Courses	3										3				
MSE3171	Materials Characterization	Core Courses	3										3				
MSE2106	Quantum Properties of Materials	Core Courses	3										3				
MSE3172	Electronic Properties of Solids	Core Courses	3										3				
MSE4121	Thin Films	Electives	3										3				
MSE4119	Advanced Computational Methods for Materials Science and Engineers	Electives	3										3				
MSE4178	Nanostructures & Nanotechnology	Electives	3										3				
MSE3113	Soft Materials	Core Courses	3										3				
MSE4176	Energy Materials for the Current Century	Electives	3										3				
MSE 2243	Workshop Practice	Core Courses	3										3				
MSE 4714	Special Topics in Materials Science and Engineering I	Electives	3													3	
MSE3169	Materials Testing Techniques	Electives	3													3	
MSE4177	Smart and Functional Materials: Selection and Application	Electives	3													3	
MSE2108	Materials Chemistry	Core Courses	3													3	
MSE4118	Composite	Electives	3													3	
MSE4715	Special Topics in Materials Science and Engineering II	Electives	3													3	
MSE4179	Advanced Materials Characterization	Electives	3														3
MSE3114	Computational Methods for Physicists and Materials Engineers	Core Courses	3														3
MSE5301	Instrumentation for Materials Characterization	Electives	3														3
MSE 4307	Building Materials	Electives	3														3
MSE4116	Dissertation	Core Courses	6														6
												15	21	18	21	18	18
												36	39	39			36