

City University of Hong Kong
Department of Physics & Materials Science

Course List for Inbound Exchange Students Offer on Semester A 2012/13 (tentative)

Course Code	Course Title	Credit Units	Prerequisite(s)	Precursor(s)	Remarks
AP1201	General Physics I	3	1. HKDSE Mathematics Compulsory Part or equivalent	1. HKDSE Physics or Combined Science (Physics, Chemistry) or Combined Science (Biology, Physics)	
AP1202	General Physics II	3	Nil	Nil	
AP2102	Introduction to Materials Engineering	3	Nil	Nil	
AP2191	Electricity and Magnetism	3	Nil	1. AP2190 or AP2290 2. MA2176	
AP2212	Measurement and Instrumentation	3	Nil	1. MA2176	
AP3110	Deformation and Fracture	3	Nil	1. AP2102 2. AP2104	
AP3113	Polymer Engineering	3	Nil	1. AP2102 2. AP2104 3. MA2157 or MA2176	
AP3169	Materials Testing Techniques	3	Nil	1. AP2102 2. AP2104	
AP3171	Materials Characterization Techniques	3	Nil	1. AP2102 2. AP3170 3. AP3172 4. MA2176	
AP3190	Thermodynamics of Materials	3	Nil	Nil	
AP3243	Laboratory IIA	2	Nil	1. AP2241	
AP3251	Quantum Physics	3	1. AP2202 or AP3202 2. AP3204	1. MA2158 or MA3158	
AP3253	Energy, Technology and Environment	3	Nil	Nil	
AP3290	Thermodynamics	3	1. AP2290	1. MA2158	

AP4124	Failure Analysis and Case Studies	3	Nil	1. AP2102	
AP4126	Electroceramics	3	1. AP2102	1. AP2101	
AP4170	Environmental Degradation	3	Nil	Nil	
AP4173	Biomedical Materials: From Engineering to Clinical Applications	3	Nil	1. AP2102	
AP4177	Smart and Functional Materials: Selection and Application	3	Nil	Nil	
AP4253	Photonics Materials Science	3	Nil	1. AP2191 or AP2291	
AP4254	Fundamentals of Laser Optics	3	1. AP3205	1. AP3204	
AP4265	Semiconductor Physics and Devices	3	1. AP2202 or AP3202 2. AP3272	1. AP3251	
AP4271	Environmental Radiation	3	1. AP3206	Nil	
AP4280	Advanced Optics Laboratory	3	Nil	1. AP3170 or AP3171 or AP3204	
AP4283	Medical Physics I	3	Nil	Nil	
AP4307	Building Materials	3	Nil	Nil	
GE2305	Astronomy – The Sky and Us	3	Nil	Nil	
GE2312	Future SCIFI Technologies	3	Nil	Nil	

Please refer to <http://www.ap.cityu.edu.hk/course/course-information.htm> for course syllabus

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Course List for Inbound Exchange Students Offer on Semester B 2012/13 (tentative)

Course Code	Course Title	Credit Units	Prerequisite(s)	Precursor(s)	Remarks
AP1201	General Physics I	3	1. HKDSE Mathematics Compulsory Part or equivalent	1. HKDSE Physics or Combined Science (Physics, Chemistry) or Combined Science (Biology, Physics)	
AP1202	General Physics II	3	Nil	Nil	
AP2104	Mechanics of Solids	3	Nil	Nil	
AP2250	Earth Systems	3	Nil	Nil	
AP3111	Ceramic Processing and Microstructure Development	3	1. AP2102	Nil	
AP3172	Electronic Properties of Solids	3	Nil	1. AP2102 2. MA2157 or MA2176	
AP3202	Modern Physics	3	Nil	1. AP2290 2. AP2291	
AP3204	Waves and Optics	3	Nil	1. MA2176 or MA2158 or MA3158	
AP3205	Electromagnetism	3	1. AP2291	1. AP3204 2. MA2158 or MA3158	
AP3206	Nuclear Radiation and Detection	3	Nil	1. AP2202 or AP3202 2. MA2176	
AP3244	Laboratory IIB	2	Nil	1. AP3243	
AP3272	Introduction to Solid State Physics	3	1. AP2290 2. AP2291	1. AP2202 or AP3202	
AP4114	Stress Analysis	3	Nil	1. AP2104 2. AP2201 3. MA2157 4. MA3158	

AP4118	Composite Materials – with an Introduction to Nanocomposites	3	Nil	1. AP2102 2. AP2104 3. AP3113 4. MA2157 5. MA2176	
AP4120	Microelectronic Materials and Processing	3	Nil	Nil	
AP4121	Thin Film Technology and Nanocrystalline Coatings	3	Nil	1. AP2102 2. AP3170 3. AP3172 4. MA2176	
AP4171	Electronic Packaging and Materials	3	Nil	1. AP2102	
AP4172	Simulation and Modelling in Materials Science	3	Nil	1. AP2102 2. AP2190 3. AP3190	
AP4176	Energy – Materials for Solar and Fuel Cells	3	Nil	1. AP2102 2. AP3172 3. AP4265	
AP4178	Nanostructures & Nanotechnology	3	Nil	1. AP2102 2. AP3109 3. AP3113	
AP4255	Optoelectronic Devices and Systems	3	Nil	AP3205	
AP4274	Radiation Biophysics	3	Nil	Nil	
AP4275	Radiological Physics and Dosimetry	3	Nil	Nil	
AP4282	Physical Optics	3	AP3204 or MA2001 or MA2176	Nil	
AP4714	Special Topics in Materials Science and Engineering	3	Nil	1. AP2102 2. AP3109 3. AP3113	
GE1305	Everyday Physics: Its Impact on You and Society	3	Nil	Nil	
GE1309	Science in Chinese Kung Fu	3	Nil	Nil	

GE2305	Astronomy – The Sky And Us	3	Nil	Nil	
GE2306	Energy and Technology	3	Nil	Nil	
GE2309	NANO – The Interdisciplinary Science (“The next big thing is really small”)	3	Nil	Nil	

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