

College of Science and Engineering 科學及工程學院

Department of Physics and Materials Science 物理及材料科學系

Bachelor of Engineering in Materials Engineering 工學士 (材料工程學)

Student Handbook 2016-2017

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1. Aims of Major

The major aims to educate and produce graduates who will be:

- equipped with working knowledge of the production, characterization, and service performance of engineering materials;
- proficient communicators equipped with a range of disciplines and skills, computer literacy, language proficiency, and the ability to think quantitatively and analyse problems critically;
- able to contribute their specialist skills, alongside other engineering specialists, to the design, manufacture, maintenance, testing and safety of engineering components, devices, structures and process plants;
- able to demonstrate an awareness of the context within which they work, and take responsibility for their own personal and professional development;
- demonstrate the ability to integrate knowledge learned in the major to support in at least an original discovery or creative design relevant to materials engineering.

Intended Learning Outcomes of Major (MILOs)

Upon successful completion of these major, students should be able to:

No.	MILOs	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		learning nere
		A1	A2	A3
1.	apply knowledge of mathematics, science, and engineering appropriate to the materials engineering discipline.		V	V
2.	design and conduct experiments, as well as analyze and interpret data.	V	V	
3.	design a system, component, or process to meet the desired needs within realistic constraints, such as economic, environmental, social, political and ethical expectations, health and safety, manufacturability and sustainability.	V	V	V
4.	function in multi-disciplinary teams.			√
5.	identify, formulate, and solve engineering problems.	$\sqrt{}$	V	√
6.	recognize professional and ethical responsibility.	V	V	
7.	communicate effectively.			√
8.	recognize the impact of engineering solutions in a global and societal context, especially the importance of health, safety and environmental considerations for both workers and the general	V		

	public.			
9.	recognize the need for, and to engage in life-long learning.		V	√
10.	stay abreast of contemporary issues.		V	
11.	use the techniques, skills, and modern engineering tools necessary for engineering practice appropriate to the materials engineering discipline.		V	V
12.	use computers and IT relevant to the materials discipline along with understanding of their processes and limitations.		V	
13.	create an original design, or explore the materials engineering area for discovery of new knowledge.	V	V	V

A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments

Demonstrate accomplishments of discovery/innovation/creativity through producing / constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

2. Degree Requirements

2.1. Minimum Number of Credit Units Required for the Award and Maximum Number of Credit Units Permitted

Degree Requirements	Normative 4-year Degree	Advanced Standing I	Advanced Standing II (Senior-year Entry)
Gateway Education requirement	30 credit units	21 credit units	12 credit units
College/School requirement	6 credit units	waived	waived
Major requirement	75 credit units (Core: 51 Elective: 24)	75 credit units (Core: 51 Elective: 24)	69 credit units (Core: 45 Elective: 24)
Free electives / Minor (if applicable)	9 credit units	0 credit unit	0 credit unit
Minimum number of credit units required for the award	120 credit units	96 credit units	81 credit units

2.2. Gateway Education Requirement

(The catalogue term of the Gateway Education requirement that students will follow will be the same as their admission term.)

For Normative 4-year students

Curriculum Catalogue Term	Semester A 2015/16
	Normative 4-year Degree
University requirements	
English	
GE1401 University English	3 credit units
Discipline-specific English	3 credit units
GE1501 Chinese Civilisation – History and Philosophy	3 credit units

<u>Distributional requirements</u>	12 credit units
Area 1: Arts and Humanities	
Area 2: Study of Societies, Social and Business Organisations	(At least one course from each of the three areas)
Area 3: Science and Technology	
College/School-specified courses ^	9 credit units
Total	30 credit units

^ College/School-specified courses for fulfilling the Gateway Education requirement

Course	Course Title	Level	Credit	Remarks
Code			Units	
Normative 4	l-year Degree			
MA1200/	Calculus and Basic Linear Algebra I/	B1	3	
MA1300	Enhanced Calculus and Linear Algebra I			
MA1201/	Calculus and Basic Linear Algebra II/	B1	3	
MA1301	Enhanced Calculus and Linear Algebra II			
CS1102/	Introduction to Computer Studies/	B1	3	
CS1302	Introduction to Computer Programming			

For Advanced Standing I and II Students

Curriculum Catalogue Term	Semester A 2016/17 onwards		
	Advanced Standing I (Note 1)	Advanced Standing II (Senior-year Entry) (Note 2)	
<u>University requirements</u>			
English			
GE1401 University English	3 credit units	Not a compulsory requirement	
Discipline-specific English	3 credit units	3 credit units	
GE1501 Chinese Civilisation – History and Philosophy	3 credit units	Not a compulsory requirement	

Distributional requirements	6 credit units	3 credit units
Area 1: Arts and Humanities		
Area 2: Study of Societies, Social and Business Organisations Area 3: Science and Technology	(From two different areas)	
College/School-specified courses ^	6 credit units	6 credit units
Total	21 credit units	12 credit units

Note 1: For students with recognised Advanced Level Examination or equivalent qualifications. Note 2: For Associate Degree/Higher Diploma graduates admitted to the senior year.

^ College/School-specified courses for fulfilling the Gateway Education requirement

Advanced Standing I					
Major in Ma	nterials Engineering				
CS1102/ CS1302	Introduction to Computer Studies/ Introduction to Computer Programming	B1	3	Students taking Major elective AP3114 Computational Methods for Physicist and Materials Engineers or AP4172 Simulation and Modelling in Multidisciplinary Sciences may apply for exemption. They are required to complete any course of 3 credits (NOT within the major requirements including core courses and electives) to replace the exempted credits.	
MA1201/ MA1301	Calculus and Basic Linear Algebra II/ Enhanced Calculus and Linear Algebra II anding II (Senior-year Entry)	B1	3		
T	not within the Major Requirements re courses and electives)	B1/2/3/4	6		

2.3. College/School Requirement, if any

(The catalogue term of the College/School requirement that students will follow will be the same as their admission term.)

Course Code	Course Title	Level	Credit Units	Remarks
Normative 4	4-year Degree (6 credit units)			
Science (6 C	Credit Units)			
Choose two	from the following three subject areas	}		
Physics				
AP1201	General Physics I	B1	3	
Chemistry				
BCH1100	Chemistry	B1	3	
Biology				
BCH1200	Discovery in Biology	B1	3	
Advanced S	tanding I (0 credit unit)			
College Requirements waived				
Advanced Standing II (Senior-year Entry) (0 credit unit)				
College Requirement waived				

2.4. English Language Requirement

Normative 4-year degree students and Advanced Standing I students who passed the 6 credit units of specified GE English courses, and Advanced Standing II students who passed the 3 credit units of discipline-specific GE English course are recognized as fulfilling the University's English Language Requirement.

For Normative 4-year students admitted to CityU in 2015/16

Students scoring below Level 4 in HKDSE English Language or Grade D in HKALE AS-level Use of English or students who do not possess an equivalent qualification are required to complete a 6-credit unit course EL0200 English for Academic Purpose prior to taking the GE English courses. The 6 credit units of EL0200 will not be counted towards the minimum credit units required for graduation and will not be included in the calculation of the cumulative grade point average (CGPA). However, they will be counted towards the maximum credit units permitted.

For Advanced Standing I Students admitted to CityU in 2016/17

Students scoring below Level 4 in HKDSE English Language or Grade D in HKALE AS-level Use of English or students who do not possess an equivalent qualification are required to complete two 3-credit unit courses, EL0200A English for Academic Purposes 1 and EL0200B English for Academic Purposes 2, prior to taking the GE English courses. Students who demonstrate that they have achieved a grade B or above in their overall course results for EL0200A will achieve 3 credits and also be considered to have satisfied the pre-requisite for entry to the GE English courses without needing to take

EL0200B. The credit units of EL0200A and EL0200B will not be counted towards the minimum credit units required for graduation and will not be included in the calculation of the cumulative grade point average (CGPA). However, they will be counted towards the maximum credit units permitted.

2.5. Chinese Language Requirement

Students scoring below Level 4 in HKDSE Chinese Language, or below Grade D in HKALE AS-level Chinese Language and Culture will be required to complete a 3-credit unit course CHIN1001 University Chinese I. The 3 credit units will not be counted towards the minimum credit units required for graduation and will not be included in the calculation of the cumulative grade point average (CGPA). However, they will be counted towards the maximum credit units permitted.

In addition to the above requirement, Colleges/Schools also have the discretion to specify other Chinese language courses for their students, including students who do not possess the above qualifications (Senate/70/MM27-28 refers). Please indicate if there are such requirements.

For course details, please refer to ARRO website (http://www.cityu.edu.hk/ug/current/catalogue/catalogue_UC.htm?page=B/B_course_AP.htm). Please always refer to this website for the most updated information.

2.6. Major Requirement

(The catalogue term of the major requirement that students will follow will be the effective term of the declared/allocated major.

For normative 4-year degree students who will join the majors allocation exercise, the catalogue term of major requirement will be one year after admission.

For advanced standing students and 4-year degree students who already have a major at the time of admission, the catalogue term of major requirement will be the same as their admission term.)

Core Courses

- Normative 4-year degree (51 credit units);
- Advanced Standing I (51 credit units);
- Advanced Standing II (45 credit units)

Course Code	Course Title	Level	Credit	Remarks
			Units	
AP1202	General Physics II	B1	3	Students with Grade D or above in HKAL Physics OR students with equivalent qualification may apply for exemption. They are required to complete any course of 3 credits to replace the exempted credits Advanced Standing II students are not required to take this course.
AP1203	General Physics III	B1	3	Advanced Standing II students are not required to take this course.
AP2102	Introduction to Materials Engineering	B2	3	
AP2104	Mechanics of Solids	B2	3	
AP2243	Workshop Practice	B2	3	
AP3109	Kinetic Processes in Engineering Materials	В3	3	
AP3110	Deformation and Fracture	В3	3	
AP3169	Materials Testing Techniques	В3	3	

AP3171	Materials Characterization	В3	3	
	Techniques			
AP3172	Electronic Properties of Solids	В3	3	
AP3190	Thermodynamics of Materials	В3	3	
AP3244	Design Laboratory	В3	3	
AP4116/	Dissertation	B4	6	
FS4003	CES Placement Project			
AP4101	Materials Engineers in Society	В3	3	
MA2001 /	Multi-variable Calculus and			
	Linear Algebra			
MA2158 /	Linear Algebra and Calculus			
MA2172 /	Applied Statistics for Sciences			
	and Engineering	B2	3	
MA2177 /	Engineering Mathematics and			
	Statistics			
MA2181				
	Mathematical Methods for			
	Engineering			
MBE2016	Engineering Graphics	B2	3	

Electives (24 credit units)

Course Code	Course Title	Level	Credit Units	Remarks
Group A (Fundar	mental Electives): at least 12 credit	units fr	om this g	group of courses
AP2105	Engineering Mechanics:	B2	3	
	Dynamics			
AP3111	Ceramic Processing and	В3	3	
	Microstructure Development			
AP3113	Polymer Engineering	В3	3	
AP3114	Computational Methods for	В3	3	
	Physicists and Materials			
	Engineers			
AP3130	Biomaterials	В3	3	
AP4170	Environmental Degradation	B4	3	
Group B (Specialized Electives)				
AP4114	Stress Analysis	B4	3	
AP4118	Composite Materials – with An	B4	3	
	Introduction to Nanocomposites			

AP4121	Thin Film Technology and	B4	3	
	Nanocrystalline Coatings			
AP4124	Failure Analysis and Case Studies	B4	3	
AP4126	Electroceramics	B4	3	
AP4127	Smart Sensors: From Engineering to Applications	B4	3	
AP4171	Electronic Packaging and Materials	B4	3	
AP4172	Simulation and Modelling in Multidisciplinary Sciences	B4	3	
AP4175	Advanced Technology in Biomedical Devices	B4	3	
AP4176	Energy Materials for the Current Century	B4	3	
AP4177	Smart and Functional Materials: Selection and Application	B4	3	
AP4178	Nanostructures & Nanotechnology	B4	3	
AP4280	Advanced Optics Laboratory	B4	3	
AP4307	Building Materials	B4	3	
AP4714	Special Topics in Materials Science and Engineering	B4	3	
FS4002	Industrial Attachment Scheme	В3	3	

For course details, please refer to ARRO website (http://www.cityu.edu.hk/ug/current/catalogue/catalogue_UC.htm?page=B/B_course_AP.ht m).

Please always refer to this website for the most updated information.

Students may ask for special approval for waiving the course prerequisites. The waiving of course prerequisites would be subject to the approval from both the course leader and the major leader on the basis of the students' academic background.

3. Accreditation by Professional / Statutory Bodies

The BEng degree in Materials Engineering has been provisionally accredited by the Hong Kong Institution of Engineers (HKIE) as an award satisfying the academic requirements for its Corporate Membership.

4. Recommended Study Plan

- 1. A set of core courses (see tables below) is pre-registered for students according to their recommended study plan.
- 2. Students are advised to plan their study according to the suggested pattern to avoid possible time conflict between courses. They should also pay attention to the Degree Requirements (Section 2) when planning their studies.
- 3. For GE courses, Chinese course, Electives and Free Electives, students will need to register them on web during the add/drop period.
- 4. Students wishing to drop/change a pre-assigned course will need to do so on web or using the paper form during the add/drop period. However, after dropping/changing the course, the places may be taken up by other students and you may not be able to enroll in the pre-assigned course again.

For Normative 4-year Degree Students

Year 2 (2016/17)

Semester A	Semester B	<u>Summer</u>
A D2102 I 1	A D2110 D. C	4 D00 40 W 1 1
AP2102 Introduction to	AP3110 Deformation and	AP2243 Workshop
Materials Engineering	Fracture	Practice
AP2104 Mechanics of Solids	AP3169 Materials Testing	
	Techniques	
MA2001 Multi-variable	AP3172 Electronic Properties	
Calculus and Linear Algebra /	of Solids	
MA2158 Linear Algebra and		
Calculus /		
MA2172 Applied Statistics		
for Sciences and Engineering /		
MA2177 Engineering		
Mathematics and Statistics /		
MA2181 Mathematical		
Methods for Engineering		
Free Elective 1	MBE2016 Engineering	
	Graphics	
Any Gateway Education	Free Elective 2	
Course (3 CU)		
Total: 15 CU	Total: 15 CU	Total: 3 CU

Year 3 (2017/18)

Semester A	Semester B	Summer
AP3171 Materials	AP3109 Kinetic Processes in	FS4002 (elective B4)
Characterization Techniques	Engineering Materials	Industrial Attachment
AP3190 Thermodynamics of	AP3244 Design Laboratory	Scheme #
Materials	-	
Elective A1	Elective A3	
Elective A2	Elective A4	
Gateway Education Course	Free Elective 3	
(3 CU)		
Total: 15 CU	Total: 15 CU	Total: 0 or 3 CU

[#] FS4002 can be considered as elective B4

Year 4 (2018/19)

Semester A	Semester B
AP4116 Dissertation	AP4116 Dissertation
AP4101 Materials Engineers in Society	Elective B3
Elective B1	Elective B4
Elective B2	
Gateway Education Course (3 CU)	
Total: 15 CU	Total: 9 or 6 CU

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.

For Advanced Standing I Students

Year 2 (2016/17)

1647 2 (2010/17)				
Semester A	Semester B	<u>Summer</u>		
AP1201 General Physics I *	AP1202 General Physics II	AP2243 Workshop		
AP2102 Introduction to	AP1203 General Physics III	Practice		
Materials Engineering				
BCH1100 Chemistry *	AP3169 Materials Testing			
	Techniques			
CS1102 Introduction to	MA2001 Multi-variable			
Computer Studies /	Calculus and Linear Algebra /			
CS1302 Introduction to	MA2158 Linear Algebra and			
Computer Programming	Calculus /			
MA1200 Calculus and Basic	MA2172 Applied Statistics for			
Linear Algebra I *	Sciences and Engineering /			
_	MA2177 Engineering			
	Mathematics and Statistics /			

	MA2181 Mathematical	
	Methods for Engineering	
MA1201 Calculus and Basic	MBE2016 Engineering	
Linear Algebra II /	Graphics	
MA1301 Enhanced Calculus		
and Linear Algebra II		
Gateway Education Course (3		
CU)		
Total: 12 CU	Total: 15 CU	Total: 3 CU

^{*}Optional for students who would like to strengthen their background

Year 3 (2017/18)

Semester A	Semester B	Summer
AP2104 Mechanics of Solids	AP3109 Kinetic Processes in Engineering Materials	FS4002 (elective B4) Industrial Attachment
AP3171 Materials	AP3110 Deformation and	Scheme #
Characterization Techniques	Fracture	
AP3190 Thermodynamics of	AP3172 Electronic	
Materials	Properties of Solids	
Elective A1	AP3244 Design Laboratory	
Elective A2	Elective A3	
Gateway Education Course (3	Elective A4	
CU)		
Total: 18 CU	Total: 18 CU	Total: 0 or 3 CU

[#] FS4002 can be considered as elective B4

Year 4 (2018/19)

Semester A	Semester B
AP4116 Dissertation	AP4116 Dissertation
AP4101 Materials Engineers in Society	Elective B3
Elective B1	Elective B4
Elective B2	Gateway Education Course (3 CU)
Gateway Education Course (3 CU)	
Gateway Education Course (3 CU)	
Total: 18 CU	Total: 12 or 9 CU

On top of the above 75 required credits in major requirement, students have to satisfy the degree requirement of 21 credits in Gateway Education as specified by the University.

For Advanced Standing II Students

Year 3 (2016/17)

Semester A	Semester B	Summer
AP2102 Introduction to Materials Engineering	AP1202 General Physics II *	AP2243 Workshop Practice
AP2104 Mechanics of Solids	AP1203 General Physics III *	Gateway Education Course (3 CU)
AP3171 Materials	AP3109 Kinetic Processes in	
Characterization Techniques	Engineering Materials	
AP3190 Thermodynamics of	AP3110 Deformation and	
Materials	Fracture	
AP1201 General Physics I *	AP3169 Materials Testing	
	Techniques	
	AP3172 Electronic Properties	
	of Solids	
MA1200 Calculus and Basic	CS1102 Introduction to	
Linear Algebra I *	Computer Studies /	
MA1201 Calculus and Basic	CS1302 Introduction to	
Linear Algebra II *	Computer Programming *	
Gateway Education Course (3	MA2158 Linear Algebra and	
CU)	Calculus /	
	MA2001 Multi-variable	
	Calculus and Linear Algebra /	
	MA2172 Applied Statistics for	
	Sciences and Engineering /	
	MA2177 Engineering	
	Mathematics and Statistics /	
	MA2181 Mathematical	
	Methods for Engineering	
	MBE2016 Engineering	
	Graphics	
	Gateway Education Course (3	
	CU)	
Total: 15 CU	Total: 21 CU	Total: 6 CU

^{*}Optional for students who would like to strengthen their background

Year 4 (2017/18)

Semester A	Semester B	Summer
AP4101 Materials Engineers	AP3244 Design Laboratory	FS4002 (elective B4)
in Society		Industrial Attachment
AP4116 Dissertation	AP4116 Dissertation	Scheme #
Elective A1	Elective A3	
Elective A2	Elective A4	
Elective B1	Elective B4	
Elective B2	Gateway Education Course (3	
Elective B3	CU)	
Total: 21 CU	Total: 18 or 15 CU	Total: 0 or 3 CU

^{*} FS4002 can be considered as elective B4

On top of the above 69 required credits in major requirement, students have to satisfy the degree requirement of 12 credits in Gateway Education as specified by the University.

5. Academic Regulations

Student should observe the University's Academic Regulation for 4-year Undergraduate Degrees at all times. For more details and most updated information, please always refer to the website of Academic Regulations and Records Office (ARRO) (http://www6.cityu.edu.hk/arro/content.asp?cid=165)

6. Academic Honesty

Students must pursue their studies with academic honesty. Academic honesty is central to the conduct of academic work. Students are expected to present their own work, give proper acknowledgement of other's work, and honestly report findings obtained. As part of the University's efforts to educate students about academic honesty, all students are expected to complete an online tutorial on academic honesty and make a declaration on their understanding of academic honesty.

Plagiarism is a serious offence involving "the use of somebody else's ideas, words, etc. as one's own". Examples of such acts are copying other students' work in examinations, tests, or coursework assignments, repetition of part or whole sentences/paragraphs/any materials from hard-copy publications or online sites for one's own use **without acknowledgement of the source in one's work.**

Students who commit an act of academic dishonesty which jeopardizes the integrity of the learning and assessment process may be charged with a Major Offence and be liable to disciplinary action. For details of the rules on Academic Honesty, students should refer to the website of Office of the Provost

(http://www.cityu.edu.hk/provost/academic_honesty/rules_on_academic_honesty.htm).

7. Assessment

Students are assessed through a variety of methods, creating ample opportunity to demonstrate their abilities. The means of assessment vary from course to course but typically include coursework as well as the more traditional written examinations. Coursework consists of written assignments, computer simulations, tutorials, project, laboratory reports and presentations etc. Examinations are held at the end of each course.

For undergraduate course, students have to obtain at least 30% of the maximum marks in the final examination in order to pass a course (i.e. D or above) where there is an examination component in the assessment.

Students should check the updated minimum passing mark for specific courses under the section of "Programmes and Courses" of the ARRO's website (http://www6.cityu.edu.hk/arro/).

7.1. Mitigation

A student who believes that his/her ability to attend an examination, or in-course assessment with a weighting of 20% or above, has been adversely affected by circumstances beyond his/her control may submit a mitigation request with the scanned relevant supporting documents (e.g. medical certificate) to the Department via AIMS <u>no later than 5 working days from the scheduled date for completing the affected examination or assessment. It is the student's responsibility to hand in the original copies of all the required documents to the department by the aforesaid deadline as well.</u>

Upon receipt of a mitigation request (including the original copies of the required documents), the Department will investigate the case, in consultation with the course-offering academic unit (if appropriate). Only compelling reasons such as illness, hospitalization, accident, family bereavement or other unforeseeable serious circumstances will be considered. If the case is substantiated, the Assessment Panel will then decide if a make-up examination or coursework or other alternative assessment will be offered to the student concerned. Only one make-up examination will be arranged per course per semester.

7.2. Award Classifications

The various classifications are based on the CGPAs*. The general guidelines are as follows:

<u>Classification of Award</u>	<u>CGPA</u>
First Class Honours	3.50 or above
Upper Second Class Honours	3.00 - 3.49
Lower Second Class Honours	2.50 - 2.99
Third Class Honours	2.00 - 2.49
Pass	1.70 - 1.99

^{*}Please refer to the AP department website

(http://www.ap.cityu.edu.hk/index.aspx?id=20061212175308&lang=e) for the calculation of SGPA and CGPA.

7.3. Academic Regulations on Termination of Study

The Examination Board may terminate the study of a student under the following circumstances:

- (i) The student's SGPA is below 1.00 for two consecutive semesters; or
- (ii) The student's academic progress is unsatisfactory and is unable to meet the conditions stipulated by the home academic unit after being put on Academic Probation for two consecutive semesters.

Students' studies will be **TERMINATED** if they **FAIL** to pass a required course, or its equivalent/substitute course, after **THREE** attempts.

Further details can be obtained from the ARRO's website, under the section of "Regulations & Guidelines" (http://www6.cityu.edu.hk/arro/).

8. Late drop policy

Students can add or drop a course during the add/drop period prescribed by the University. After the add/drop deadline, requests for late drop of courses will **NOT** be entertained unless under exceptional circumstances (e.g. medical grounds). Such late requests must be submitted no later than the end of the teaching period for the relevant semester/term for approval by the Head of the course-offering academic unit.

9. Laboratory safety

All laboratory users are bound by the Safety Regulations of the City University as well as the relevant enacted laws and ordinances. In addition, the following rules should be adhered to.

- 1. Undergraduate students are NOT ALLOWED TO WORK in a laboratory WITHOUT SUPERVISION.
- 2. Undergraduate students are NOT ALLOWED TO KEEP ANY KEY of the laboratories.
- 3. New research students/staff are NOT ALLOWED TO WORK in a laboratory before the completion of the safety training.
- 4. Students/staff SHOULD NOT WORK ALONE in a laboratory; when he/she needs to work with hazardous chemicals, e.g., strong acids and alkalis or on electricity connection, there MUST be at least one more person in the same room. All research personnel should seek the help of a companion when he/she must work in the laboratory outside normal office hours, otherwise he/she is required to utilize the Personal Alarm System in AP labs. Experiments should not be left unattended.
- 5. Prior approval from your supervisor is needed to stay in a laboratory beyond 11:00 p.m. Form can be downloaded from https://www.ap.cityu.edu.hk/overnight.pdf.
- 6. **SMOKING**, EATING & DRINKING ARE STRICTLY FORBIDDEN. Do not bring food or drinks into a laboratory.
- 7. DO NOT RUN OR PLAY in laboratories.
- 8. Loose clothing is potentially hazardous. Secure ties and tie up long hair. You are also advised to wear laboratory coat.
- 9. Familiarise yourselves with the FIRE EXITS and ESCAPE ROUTES. These are posted in every laboratory.
- 10. Familiarise yourself with EMERGENCY PROCEDURES. These are posted at the entrance of each laboratory.
- 11. Wastes & solvents must be disposed of properly. Consult your supervisor or the technicians in case of doubt.
- 12. All accidents must be reported to the technical officer/supervisor immediately.
- 13. Wearing EYE PROTECTION is mandatory when working with hazardous chemicals or operating UV instruments or LASERS, and in laboratories where such notices are posted. Consult your supervisor or the technicians for the appropriate type of eye-protection equipment. In other areas, you are encouraged to wear eye protection as a good safety practice. Users of laser classes 3B and 4 are reminded to undergo eye-sight tests arranged by the university. This should be carried out before the first use of laser and again before leaving the university.
- 14. Before commencement of a new experiment, you should complete a RISK ASSESSMENT and obtain approval from your supervisor . Risk Assessment Form can be downloaded from https://www.ap.cityu.edu.hk/safety/risk-assessment.pdf.
- 15. There is a separate set of rules governing the use of Radiation Laboratories. These are posted at the entrance of the Radiation Laboratory. All users must observe these rules.

For further details of safety guidelines, please refer to the AP department website (http://www.ap.cityu.edu.hk/index.aspx?id=20061214155729&lang=e).

10. Communication channels

There are various channels of communication between students and the Department. On an informal basis, students having academic difficulties with a course are encouraged to approach their academic advisors, lecturer or tutor concerned.

A formal consultative channel between students and faculties is established via the Joint Staff/Student Consultative Committee (JSSCC) and Programme Committee. The Programme Committee is charged with the responsibility of monitoring the operation and quality assurance of the programme. 2-3 student representatives from each cohort will be nominated for joining the committees. The Committees meet at least once a semester. At the meetings, students can express their views on the curriculum and organization of the programme.

Students are also welcome to approach the major leaders, academic advisors or course leaders whenever they encounter any study-related difficulties.

10.1 Major Leader

Major Leader Dr JOHNNY HO

Office: G6754, 6/F, Academic 1 (Green Zone)

Phone: 34424897

Email: johnnyho@cityu.edu.hk

11. Useful information

11.1 Course registration for 2015-16

- For 2016-17, students will be pre-registered in some of the core courses including AP1202, AP1203, AP2102, AP2212, AP3251, AP3290, AP4216/AP4217, MA1200, MA1201, MA2158, CS1102 and GE2401 in Semester A and AP2191, AP2213, AP3114, AP3202, AP3204, AP3205, AP3244 and AP3272 in Semester B.
- The web registration period for Semester A will start from 15 August 2016 and end on 5 September 2016 but you need to check your time ticket from "AIMS". For the exact registration period, Please refer to "Course Registration" under ARRO website (http://www6.cityu.edu.hk/arro/).
- Please check your curriculum requirements, review your study plan and then make appropriate adjustments to your course registration after consulting your academic advisors if necessary.
- Add/Drop of courses can be made through AIMS for web-enabled courses during the web registration period.

- For non-web-enabled courses, students should seek endorsement from the **course-offering academic units** by using the Add/Drop Form before submitting the change request to ARRO.
- If a student drops a course after the add/drop period, an 'X' grade will be assigned for the course. The 'X' grade will be printed on the student's transcript.

Important notes

How to do the Add/Drop on web

- Go to www.cityu.edu.hk from any terminal on campus or off campus and click "Students".
- Log onto "AIMS" and then click "Course Registration".
- Choose "Add or Drop Classes".

For details on course registration arrangements for 2016-2017, please refer to "Course Registration" under the ARRO website (http://www6.cityu.edu.hk/arro/).

11.2 How to access your personal class schedule

- Go to CityU home page (<u>www.cityu.edu.hk</u>) from any terminal on campus or off campus.
- Log onto "e-Portal" under "Quick Links" or "My CityU". If you have problems in logging in, please follow the instructions in "Having problems logging in?".
- Select "View Student Schedule" under the "Courses I am taking" box.
- Press the "View Detail Schedule" button at the bottom of your timetable to display details of your class schedule.

11.3 How to get instructors' handouts through Canvas

- Go to CityU home page (<u>www.cityu.edu.hk</u>) from any terminal on campus or off campus.
- Log onto "Canvas" under "Quick Links".
- Click "Courses".

Canvas User Guides are available at OCIO's website.

11.4 How to check curriculum requirements and course syllabuses

- Go to CityU home page (<u>www.cityu.edu.hk</u>)
- Click "Academic Programmes".

11.5 How to access your student email account

- Go to www.cityu.edu.hk from any terminal on campus or off.
- Click "Email" under "My CityU"
- Click "@my.cityu.edu.hk (office 365)"

11.6 How to access DegreeWorks

DegreeWorks is a web-based academic advising and degree audit tool primarily introduced for undergraduate students under the 4-year degree curriculum. DegreeWorks matches a student's academic record against the curriculum requirements. It offers a user-friendly interface that helps students learn easily what courses they still need to take to fulfill the requirements of College/School, GE, major, minor, etc. It also facilitates communication between students and advisors.

Students are encouraged to use the "Planner" function in DegreeWorks. "Planner" helps you create a long term study plan for your degree completion. Using this tool, you can easily discuss your academic goals and plan with your Advisor.

- Go to www.cityu.edu.hk from any terminal on campus or off campus.
- Log onto "AIMS".
- Go to the "Study Plan" tab in AIMS.
- Then you can view the Student advising worksheet and advising notes, and access other features available in DegreeWorks.

Important notes

Students are advised to go through the online tutorials and all materials available on ARRO's website to learn more about DegreeWorks.

- Go to www.cityu.edu.hk/arro
- Click "Current Students".
- Choose "DegreeWorks".
- Read "Introduction", "Tutorials" and "Frequently Asked Questions".

12. Student Development Services (SDS)

The SDS offers many student-centred services to students. It provides support and assistance for students in the following areas:

- Attainment of an all-round development
- Enrichment of campus life
- Development of career plans and choices
- Solving personal problems
- Enhancement of physical and mental well-being
- Provision of financial assistance
- Scholarship application
- Welfare provisions

^{*}For email communication, please state your name, student number, contact telephone number, programme and entry cohort.

^{*}Always check and clear your email account, and make sure it does not exceed the quota (a maximum of 25GB).

If you need any advice on your personal issues other than academic concerns, you may approach SDS to schedule a counselling appointment:

Tel.: 3442 8478

E-mail: sds@cityu.edu.hk

Address: Student Development Services, 6/F, Amenities Building

13. Administrative Support from General Office

Address : G6702, 6/F, Academic 1 (Green Zone)

Office Hours : Monday to Friday

8:30 am - 12:45 pm

2:00 pm - 5:45 pm

Telephone : (852) 3442 7831 Fax : (852) 3442 0538

Email : apoffice@cityu.edu.hk
Website : www.cityu.edu.hk/ap

14. Appendix: Academic Staff Profile

STAFF

AREAS OF SPECIALISM

Head of Department and Chair Professor of Physics

Prof X L Wang

BSc Peking University, China
PhD Iowa State University, USA
Fellow, American Physical Society
Email: aphead@cityu.edu.hk

(for departmental matters)
xlwang@cityu.edu.hk

Neutron and synchrotron scattering Phase transformation, deformation, magnetism, residual stress determination Metallic glasses, nanostructured materials, magnetic shape memory alloys

Personal Secretary

Ms Sare W Y Lau

Email: sare.lau@cityu.edu.hk

Chair Professor of Materials Engineering

Prof Paul K Chu

BSc The Ohio State University, USA
MSc PhD Cornell University, USA
Fellow, American Vacuum Society
Fellow, Institute of Electrical and
Electronics Engineers
Fellow, American Physical Society
Fellow, Materials Research Society
Fellow, Hong Kong Institution of
Engineers
Email: paul.chu@cityu.edu.hk

Plasma science, implantation, processing and engineering
Semiconductor materials and processing
Biomedical materials and nanobiology
Advanced materials, functional thin films, and nanomaterials

Chair Professors of Materials Science

Prof Joseph K L Lai

BA MA Oxford University, UK
PhD City University, UK
Fellow, Institute of Materials, Minerals and Mining, UK
Chartered Engineer, UK
Fellow, Institute of Physics, UK
Chartered Physicist, UK
Fellow, Institution of Mechanical
Engineers, UK
Fellow, Hong Kong Institution of
Engineers
Email: apjoelai@cityu.edu.hk

Properties of steels and aluminium
Failure analysis of engineering components
Temperature measurement
Expert witness on accident investigations
Litigations and arbitrations involving
metals

Prof C S Lee

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Organic electronics
Nanoscaled materials
Solar cells and photodetectors

Chair Professor of Photonics Materials

Prof Andrey L Rogach

Diploma Belarusian State University,

Belarus

PhD Belarusian State University, Belarus Dr habil Ludwig-Maximilians University,

Munich, Germany

Email: andrey.rogach@cityu.edu.hk

Nanoscience and nanotechnology Advanced functional materials Optical spectroscopy

Professor and Associate Dean (CSE)

Prof Robert K Y Li

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Email: aprkyl@cityu.edu.hk

Polymer engineering Composite materials

Professors

Prof K S Chan

BSc PhD University of Hong Kong

Email: apkschan@cityu.edu.hk

Semiconductor physics Photonics technology

Nanoscience and nanotechnology

Spintronics

Superconductivity

Prof C H Shek

BSc(Eng) PhD University of Hong Kong

Email: apchshek@cityu.edu.hk

Phase transformation in metallic materials

Nanostructured materials Bulk metallic glasses

Prof S C Tiong

BSc National Taiwan University, Taiwan MSc PhD University of Manchester, UK

Chartered Engineer, UK Chartered Scientist, UK

Fellow, Institute of Materials, Minerals and

Mining, UK

Fellow, Hong Kong Institution of Engineers

Email: aptjong@cityu.edu.hk

Surface science Electron microscopy

Polymer composites

Biomaterials

Nanostructured materials

Prof Lawrence C M Wu

BSc(Eng) PhD University of Bristol, UK PgDMS University of West of England, UK

Fellow, Hong Kong Institution of Engineers

Email: lawrence.wu@cityu.edu.hk

Engineering failure analysis Lead-free interconnections

Nano-materials for solar cells and biosensors

Prof K M Yu

BSc PhD *University of California, Berkeley, USA*

E-mail: kinmanyu@cityu.edu.hk

Ion Beam Analysis and Modification of Materials Defects in Semiconductors Photovoltaic Materials Nitride and Oxide semiconductors Transparent Conductors

Prof Peter K N Yu

BSc PhD *University of Hong Kong*Chartered Scientist, UK
Chartered Physicist, UK
Fellow, Institute of Physics, UK
Chartered Radiation Protection Professional
Member, Society of Radiological Protection,
UK

Fellow, Hong Kong Institution of Engineers

Email: peter.yu@cityu.edu.hk

Radiation biophysics Medical physics Biointerfaces

Prof R Q Zhang

BSc MSc PhD *Shandong University, China* Email: aprqz@cityu.edu.hk

Surface, interface and microstructures of functional materials Vapor-solid interactions Computational materials science Nanoscience

Prof W J Zhang

BSc MSc PhD *Lanzhou University*, *China* Email : apwjzh@cityu.edu.hk

Associate Professors

Dr S T Chu

BSc Wilfrid Laurier University, Canada MSc PhD University of Waterloo, Canada

Email: saitchu@cityue.edu.hk

Surface and interface analysis Thin films Diamond and superhard materials Nanomaterials

Dr C Y Chung

BSc(Eng) PhD *University of Hong Kong*Member, Hong Kong Institution of Engineers
(Materials & Biomedical)
Email: appchung@cityu.edu.hk

Dr Johnny C Y Ho

BSc MSc PhD University of California, Berkeley, USA

Email: johnnyho@cityu.edu.hk

Integrated photonics Sensors and sensing systems Numerical methods

Metallic materials Shape memory alloy Powder metallurgy Battery materials

Synthesis and characterization of nanostructured materials Assembly and heterogeneous integration of

nano-materials

Nano-scale devices and processing for technological applications (electronics, energy-harvesting, photonics, sensors)

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Email: yangli@cityu.edu.hk

Dr Antonio Ruotolo

MEng PhD University of Naples (IT) "Federico II", Italy

Email: aruotolo@cityu.edu.hk

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Dr J Antonio Zapien

PhD The Pennsylvania State University, USA

BSc UNAM, Mexico

E-mail: apjazs@cityu.edu.hk

Assistant Professors

Dr Jun Fan

BEng Tsinghua University, Beijing, China

MSc McMaster University, Hamilton, Canada

PhD Princeton University, Princeton, USA

Email: junfan@cityu.edu.hk

Dr Derek Ho

M.A.Sc. B.A.Sc., University of British Columbia, Canada Ph.D., University of Toronto, Canada Member, Institute of Electrical and Electronics Engineers (IEEE) Email: derekho@cityu.edu.hk Electrochemical nanofabrication Functional porous nanomaterials

Sensors

Electrode materials Smart biomaterials

Magnetism and spintronics

Superconductivity
Semiconductor oxides
Thin film technology
Nano-lithography

Molecular electronics Molecular self-assembly

Photonics

Nano-materials science

Bio-electronics

Renewable energy (solar and fuel cells) and

printed electronics

Nanomaterials and nanotechnology Nano-photonics and nano-optoelectronics Optical properties of materials Nucleation and growth of thin films

Theoretical and computational materials science and biophysics
Assembly molecular self-assembly
Structure, function and dynamics of cell membranes and proteins
Molecular dynamics simulations

Phase field modeling Free energy calculations

Smart arrayed sensors for optical, chemical, and electrical biosensing Instruments for fluorescence spectroscopy, bioluminescence imaging, and lenseless microscopy Fully-integrated lab-on-a-chips and microsystems
Electronics for implantable, wearable, and handheld medical diagnostics CMOS circuits and systems for signal processing, control, and computation Microelectronic, nanoelectronic, and optoelectronic devices

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Optics

Nuclear magnetic resonance

Biophysics Spectroscopy

Imaging

Neutron scattering

Dynamics of liquid in confinements

Energy storage

Glass transition

Advanced materials for photovoltaic application

Solution processed electronic materials

Semiconductor device physics

Spectroscopy techniques

Ferroelectric and multiferroic materials

Ceramics

X-ray and neutron scattering

Luminescent nanomaterials

Photon upconversion

Optical spectroscopy

Theoretical condensed matter physics

Spin quantum computation Correlated electron system

Computational methods

BN/BCN nanomaterials

Thermally conductive electrically insulating polymer composites for heat

dissipation

Energy related electrochemical & photoelectrochemical devices

Nanomaterials for sewage treatment