

Course list for Cross-institutional Course/Subject Enrolment Scheme for Research Postgraduate Students
(1st Term, 2009-10)
Institution: The Chinese University of Hong Kong

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Course Code	Course Title (Only postgraduate level courses should be offered under this scheme)	Units	Keyword Syllabus or Brief Subject Description	Prerequisites (if any)	Result Grade	Medium of Instruction	Remarks, if any (e.g. quota for visiting students)
ACY6199	Current Topics in Accounting Research	3	The course explores current topics in a specific area of accounting research. Through a combination of lectures and seminars, students discuss recent literature and academic works to enhance their knowledge and skill to conduct research in accounting utilizing tools and paradigms at the frontier of such technologies.	Nil	A-F	E	Quota for visiting students = 5
ANT5020	Seminars in Research Methods	3	This seminar will introduce you to a range of techniques for collecting and analyzing data. This course will also seek to help you prepare for your own research and field work.	NIL	A-F	E	Subject to teacher's approval on individual application.
ARC7030	Research Seminar	1	Discussion of research traditions in the various domains of architecture.	Permission of Instructor	P/U	E	Quota for visiting students=10
ARC7201	Research methods	3	An introduction to research methods common to the various domains of architecture.	Permission of Instructor	A-F	E	Quota for visiting students=10
BIO5001	Advanced Topics in Environmental Biology & Biotechnology	2	Review of current topics in Environmental Biology & Biotechnology. Critical reading and evaluation of current literature. Selected papers will be presented and discussed in detail by students.	NIL	A-F	E	Quota for visiting students=3
BIO5002	Advanced Topics in Nutraceuticals & Food Science	2	Review of current topics in Nutraceuticals & Food Science. Critical reading and evaluation of current literature. Selected papers will be presented and discussed in detail by students.	NIL	A-F	E	Quota for visiting students=3
BIO5003	Advanced Topics in Molecular Biology & Biotechnology	2	Review of current topics in Molecular Biology & Biotechnology. Critical reading and evaluation of current literature. Selected papers will be presented and discussed in detail by students.	NIL	A-F	E	Quota for visiting students=3
BSA6001	Research Methodology in Behavioural Studies I	3	This course is divided into two main parts. The first part is focused on the application of the philosophy of science to behavioral research in business. Basic concepts such as explanation, scientific laws, and theory are introduced and discussed. The second part provides an introduction to the various stages of scientific research which include research design, measurement scale and development, sampling design, data collection and statistical analysis. Even though mathematical proofs and statistical derivations will be reduced to a minimum, having the knowledge of basic statistics and matrix manipulations will be helpful.	NIL	A-F	E	Transcript is required

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CHE6001	Critical Cultural History of China: Early 中國文化史的典範變遷：早期	3	This course will propose a multi-disciplinary approach to the study of Chinese cultural history conceived of as a succession of modes of rationality (philosophical, bureaucratic, and economic processes of rationalization). The focus will be on the moments of paradigm shift from one mode of rationality to another. For each of these moments, cultural facts and artifacts—thought, literature, ritual—will be examined in relationship to changing social, political, and economic systems. This semester will cover the periods of the Warring States (481-221 BCE) and the Six Dynasties (220-589 CE). The first laid the social and cultural foundations for the emergence of the imperial mode of rationality; the second saw the Buddhist “conquest” of China and the emergence of a rationality defined by the opposition of the Three Teachings to shamanism, that is, of a clear contrast between elite and popular culture.	NIL	A-F	E	Quota for visiting students=3	
CHI5371	Special Topics in Classical Chinese Literature I	3	Critical study of special topics in classical Chinese literature, with emphasis on particular authors, works or schools.	NIL	A-F	P	Quota for visiting students=10	
CHI5451	Special Topics in Modern Chinese Literature I	3	Critical study of issues, other than genres and authors, in modern Chinese literature. Topics may focus on research methodologies, literary thoughts, literary schools, regional literature, comparative literature, etc.	NIL	A-F	P	Quota for visiting students=10	
CHM5550	Organolanthanide Chemistry	2	General Features of Lanthanide Chemistry; Cyclopentadienyl-based Organolanthanide Compounds: Synthesis, Structure, and Reactivity; Carboranyl-based Organolanthanide Compounds: Synthesis, Structure, and Reactivity; Applications in Homogeneous Catalysis.	A good understanding of main group and transition metal chemistry	A-F	E	NIL	
CHM5640	Pharmaceutical Chemistry	2	This is an introductory level medicinal chemistry course designed for chemistry and biochemistry postgraduates. The course will acquaint students with concepts and methodologies in the drug development process before <i>in vivo</i> studies.	A good understanding of Organic Chemistry	A-F	E	NIL	

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CHM5642	Supramolecular Chemistry	2	This course provides an overview of fundamental concepts and essential applications of supramolecular chemistry. This course covers two parts. The first part focuses on the fundamental concepts, including noncovalent interactions (electrostatic interactions, hydrogen bonds and aromatic interactions, etc.), template-directed synthesis of supermolecules as well as molecular recognition. The second part focuses on the application of supramolecular chemistry, discussing molecular self-assembled systems (such as molecular capsules, self-assembled nano-tubes, supramolecular polymers, liquid crystals and self-assembled monolayers) and introducing important examples of applying supramolecular chemistry in materials sciences and biology.	A good understanding of Organic Chemistry	A-F	E	NIL
CHM5710	Quantum Chemistry	2	The basic principles for solving the electronic wavefunction for molecules and solids will be introduced. For the Hartree-Fock method, we will discuss the independent particle approximations, Slater determinants, Coulomb and exchange integrals, LCAO and gaussian basis set, and self-consistent field method. Density functional theory and its implementation with the framework of atomic and planewave basis sets will also be discussed. Finally, we will cover some of the basic techniques for post-Hartree-Fock treatment and electron correlations.	NIL	A-F	E	NIL
COM5220	Communication Theories	3	http://www.cuhk.edu.hk/gss/pgshdbk/R50_COMM.pdf	NIL	A-F	E	Quota for visiting students=5
COM5320	Quantitative Communication Research	3	http://www.cuhk.edu.hk/gss/pgshdbk/R50_COMM.pdf	NIL	A-F	E	Quota for visiting students=3
COM6220	Global and Comparative Communication	3	http://www.cuhk.edu.hk/gss/pgshdbk/R50_COMM.pdf	NIL	A-F	E	Quota for visiting students=5
CSC5120	Advanced Topics in Database Systems	3	This course will introduce to students advanced topics in database systems including advanced data structures, concurrency control, deadlock resolutions, recovery schemes, distributed database systems, multimedia database indexing techniques, and data mining.	CSC3170	A-F	E	NIL

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CSC5180	Techniques for Data Mining	3	Data mining provides useful tools for the analysis, understanding and extraction of useful information from huge databases. These techniques are used in business, finance, medicine and engineering. This course will introduce the techniques used in data mining. Topics will include clustering, classification, estimation, forecasting, statistical analysis and visualization tools.	NIL	A-F	E	NIL
CSC5240	Combinatorial Search and Optimization with Constraints	3	Students will be exposed to various constraint-based combinatorial search and optimization techniques that arise in artificial intelligence, operations research, etc. Topics include, but are not limited to, local propagation, consistency algorithms, Boolean constraint solving, numerical constraint solving, linear programming, search, and their applications.	NIL	A-F	E	NIL
CSC5280	Image Processing and Computer Vision	3	Image Processing: enhancement technique, image compression, segmentation, morphology, color image processing and restoration. Computer Vision: representation, decision models, structural methods and image understanding.	NIL	A-F	E	NIL
CSC5320	Topics in Graph Algorithms	3	A course on graph theory and graph algorithms with emphasis on the algorithmic aspects of graph theory. The course will cover classical topics such as search techniques, connectivity, colouring, matching and covering, network flows, planarity, traversability, perfect graphs, and NP-completeness of graph problems. It will also cover recent advances in graph minors and fixed-parameter tractability of graph problems.	CSC3160 or equivalent	A-F	E	NIL
CSC5350	Game Theory in Computer Science	3	This course aims at introducing the theory and application of Game Theory in the context of Computer Science, in particular, decision making in multiagent systems. The course first focuses on rational behaviour of agents in strategic games and the existence of pure and mixed strategy Nash equilibrium. Then extensive games with and without perfect information, including bargaining games and repeated games will be introduced. The concepts of subgame perfect equilibrium and sequential equilibrium will be discussed. Finally, the course covers coalitional games and the concepts of cores and kernels.	NIL	A-F	E	NIL

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CSC5370	Quantum Computing	3	<p>This course introduces various topics in quantum computing, including but not limited to the following ones.</p> <ol style="list-style-type: none"> 1. Quantum algorithms: quantum Fourier transform, amplitude amplification, quantum walk. 2. Quantum complexity: quantum structural complexity, quantum interactive proof, quantum communication complexity, quantum query complexity. 3. Other topics such as quantum cryptography and quantum information theory. 	CSC2110	A-F	E	NIL
CSC5390	Advanced Topics in GPU Programming	3	<p>The evolution of consumer graphics hardwares leads to the introduction of parallel, programmable GPUs (Graphics Processing Units). The strong parallel computational power of GPUs not only supports real-time and realistic rendering, but also the cost-effective platform for scientific computing, such as physical simulation, numerical analysis, evolutionary computation, image processing, and computer vision, etc. This course introduces the evolution of shading language and GPU, the basic concept in GPU programming and the recent advanced usage of GPU in computer graphics and general-purpose computing. Topics covered include: shader programming, procedural texture and modelling, programmable graphics pipeline, modern shading language, GPGPU (general-purpose computing on GPU), limitations of GPU, and case studies of advanced usages of GPU.</p>	CSC3260 or equivalent	A-F	E	NIL
CSC5420	Computer System Performance Evaluation	3	<p>Computer system performance evaluation through analytical and simulation studies. Brief overview of queueing theory, computational algorithms, sequential and parallel simulation techniques. Performance evaluation in distributed resource allocation, computer interconnection architectures, multiprocessing and multithreads computation, parallel I/O architectures, distributed database concurrency control protocols, multiple access protocols in communication network, and parallel programming models, etc. Students are expected to have knowledge in probability, stochastic processes and computer architecture.</p>	NIL	A-F	E	NIL

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CSC5460	Virtual and Augmented Reality	3	This course introduces the fundamental and advanced research topics in virtual & augmented reality (VR/AR), including VR/AR tools & metaphors, multi-sensory interactions, geometric and behavior modeling, touch-enabled interfaces, real-time immersive navigation, human factors in VR/AR, augmented reality systems, internet-based VR/AR applications. The web-based virtual reality interfaces plus other graphics engines build up the developing tools for testing the alternative ideas/solutions for the advanced VR/AR research and real-time applications.	CSC3260 or equivalent	A-F	E	NIL
CSC6210	Advanced Multidimensional Search	3	This course offers an in-depth coverage of two important topics on multidimensional data. The first one concerns advanced data R-tree, Pyramid, and iDistance. The second topic focuses on several types of queries fundamental to data analysis. Examples include various forms of similarity search, skyline and top-k retrieval, and distance joins of multiple datasets. The course contents are useful for research in areas including databases, image processing artificial intelligence, and so on.	NIL	A-F	E	NIL
DSE6532	Multivariate Statistics	3	This course provides students with the basic multivariate analysis principles, techniques and applications based on statistics theory. Major topics include factor analysis, multiple discriminant analysis, multivariate analysis of variance, cluster analysis, principle component analysis, etc. The techniques introduced will be useful in conducting quantitative research in various areas in business and economics including management marketing, and management information system. Applications of the techniques to real – world economic and business problems will be emphasized. Statistical software will also be introduced to familiarize students with the application of multivariate analysis techniques in their research.	Undergraduate Statistics Course or equivalent	A-F	E	NIL
ECO5130	Applied Time Series Analysis	3	Please visit: http://www.econ.cuhk.edu.hk/dept/courselist.php?programme=postg	Econometrics course equivalent to CUHK ECO3121- Introductory Econometrics	A-F	E	NIL

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ELE 5120	Selected Topics in Biomedical Engineering	3	Selected topics in bio-medical engineering, emphasis is more on recent advances and development trend. Topics include: bioelectric phenomena, biological control systems, bio-instrumentations, non-invasive bio-measurement techniques, biomechanics, clinical engineering, and rehabilitation engineering. Course will normally cover any 2-4 topics in any year.	NIL	A-F	E	Quota for visiting students=3	
ELE5431	Advanced Techniques for Video Coding	3	Introduction: television standards, digital image representation, statistical models, basic lossless and lossy coding techniques; advanced coding techniques: wavelet coding, synthetic-natural hybrid coding, postprocessing techniques; image coding standards: JPEG, JPEG 2000; video coding standards: H.261, H.263, MPEG1, MPEG2, MPEG4; HDTV standard.	NIL	A-F	E	Quota for visiting students=3	
FAA5101	Methodology in Art-historical Research	3	This course provides students with a thorough understanding of the bibliographical studies as well as the traditional and modern research methodology in Chinese art history.	NIL	A-F	E	Quota for visiting students=5	
GRM5100	Advanced Geographical Methodology	3	This course introduces and reviews some of the main methodologies in conducting geographical research. It covers bibliographic research, field investigation, thesis preparation and other practical concerns. Special ways of approaching certain subfields of geography will also be introduced and reviewed. New geographical techniques such as geographical information systems, remote sensing, intelligent spatial decision systems, and analysis of uncertainty and their role in geographical research will be examined.	NIL	A-F	E	NIL	
GRM5110	Statistical Applications in Geography	3	This course is an introduction to statistical methods in geographic research. The goal of this course is to provide a practical understanding of the application of statistical analysis to geographic problem solving. Emphasis is placed on the application of appropriate methods to analyze geographic data, the appropriate procedures for research design, and the interpretation of research results.	NIL	A-F	E	NIL	

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HIS7012A	Selected Themes in Modern Chinese History: Comparative Social History of Medicine: Modern Europe and Late Imperial China	3	<p>This is a reading course that introduces the student to the social history of medicine from a comparative perspective. Two aspects of this history are highlighted in this course: the role of the medical practitioner and the conception of the body. We will look at the Chinese and European doctor in their pre-modern and modern contexts. We will then study the historical changes in the conceptualization of the body in China and in the West. Emphasis will be on the post 15th century period. Our purpose is to highlight some of the most significant differences between Chinese and Western medical cultures that would help to articulate some of the unique features in the social and cultural history of Chinese medicine.</p> <p>Students should be able to read at least 30-40 pages of English a week, and be able to understand written classical Chinese; students should be able to communicate in Putonghua.</p>	NIL	A-F	P & E	Quota for visiting students=5

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HIS7016A	Selected Themes in Comparative History: Ancient China and the Near East	3	<p>This course is designed to achieve the following goals:</p> <ol style="list-style-type: none"> 1. To familiarize the students with some essential materials for the history of the ancient Near East 2. To allow the students to develop a way to think of his/her subject of interest from a comparative perspective 3. To provide a chance for the students to experiment conducting comparative research <p>Course structure:</p> <ol style="list-style-type: none"> 1. Introduction to the history of the ancient Near East: The professor will conduct the introduction. 2. Reading and discussion of designated topics: Students are assigned certain topics to prepare for presentations in class. Each presenter should be responsible for the following during presentation: 1. identify the basic materials for the study of the topic; 2. critical review of previous studies; 3. pose new questions; 4. in addition, the presenter should provide a brief written summary of the main points to be distributed to the class members one day before presentation, and provide a bibliography about the topic. The non-presenters in the class are responsible for the following: 1. read the assigned materials; 2. prepare questions or points of observation for discussion. 3. Term paper: Each student should present in class a research paper during the last week of the semester. 4. Students who wish to take this course should have taken history of the ancient Near East. <p>Course outline:</p> <ol style="list-style-type: none"> (1) Introduction (2) Early Mesopotamia: An overview (3) Ancient Egypt: An overview (4) Methodology (5) The rise of urban civilizations: Mesopotamia (6) The rise of urban civilizations: Egypt (7) Political control of early societies: Mesopotamia (8) Political control of early societies: Egypt (9) Religion: Mesopotamia (10) Religion: Egypt (11)–(13) Paper presentation 	NIL	A-F	P & E	NIL

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IEG5230	Advanced Topics in Wireless Communicati	3	This course provides an extensive introduction to basic principles and advanced techniques in the physical layer of wireless communications. Topics to be covered include 1. Overview: evolution of wireless communications, 3-level wireless channel model, challenges in designing wireless communications systems 2. Channel Coding Convolutional codes and turbo codes; viterbi decoding; transfer function and error rate performance 3. MIMO and Space-Time Processing Techniques Multiplexing-diversity tradeoff; MIMO channel capacity; MIMO detection techniques; SVD; VBLAST; Beamforming; Space-time block code and trellis code; 4. OFDM and Multicarrier Systems OFDM basics and implementation issues; Enhancement of OFDM (single user adaptation and multiuser adaptive resource allocation) MIMO-OFDM and Adaptive MIMO-OFDM 5. Spread-spectrum and CDMA M sequences DS-SS; FH-SS; TH-SS; Rake receiver; CDMA and Multiuser Detection; Synchronization; 3G 6. Multiuser resource allocation and opportunistic scheduling	This course is offered to graduate students. Prerequisite includes Digital communications (IEG3010) and Wireless Communication Systems (IEG4100) or their equivalents.	A-F	E	Quota for visiting students=20

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LIN5001	Contemporary Approaches to Linguistics Analysis	3	The course provides an intensive survey of some of the main themes in the analysis of the phonology, syntax, and semantics of natural language. In phonology, emphasis will be placed on non-linear approaches to sound structure. The basic tenets of the Principles and Parameters approach and the Minimalist framework will be examined in the analysis of syntax. In semantic theory, the focus will be on cognitive/conceptual approaches to meaning, and their differences from Pregean semantics. Integration of general theory with data from local languages, in particular Asian languages, will be a central feature of the course.	NIL	A-F	E	NIL
LIN 5020	Topics in Language Acquisition	3	This course focuses on current issues in language acquisition with a strong emphasis on the interface between theoretical analysis of linguistic phenomena and central research questions in studies of language acquisition. Selected topics from first language acquisition, bilingual acquisition, second language acquisition, and sign language will be covered. Data from different languages will be used for illustration. Empirical coverage that extends beyond one language is essential.	NIL	A-F	E	NIL
MAE5050	MEMS and Nano-Robotics	3	Introduction to MEMS/NEMS devices. Micro/Nano fabrication techniques. MEMS/NEMS design methodology. Experimental methods for Micro/Nano devices. Applications for MEMS/NEMS. Dominant physical phenomena in the Micro/Nano worlds. Micro and Nano scale robotics and assembly.	NIL	A-F	E	NIL
MAE5100	Advanced Engineering Design & Optimization	3	To provide in-depth understanding of the principles and tools of engineering system design, statistical optimization methods, Design for Six Sigma (DFSS), TRIX, and complex system design.	NIL	A-F	E	NIL
MGT6022	Advanced Seminar in Human Resources Management and Organizational Behaviour	3	Domain of OB; Job Satisfaction; Organizational Commitment; Fairness and Organizational Citizenship; Turnover; Leadership; Comparative Management; Domain of HRM, Selection; Strategic HRM, Other Topics in HRM.	NIL	A-F	E	NIL

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MUS5130	Seminar in the Theory of Music I	3	Studies in the analysis of tonal music, with emphasis on music with text.	NIL	A-F	C&E	1) Quota for visiting students=3 2) Sample of written work and interview are required.	
MUS5160	Advanced Music Analysis I	3	Analytical studies of the tonal repertory with emphasis on canonical techniques, underlying theories and the latest scholarship.	Enrolled in master or doctoral programmes	A-F	C#E	Interview is required	
MUS5280	Special Topic I: Chinese Music I	3	Recent scholarship in Chinese Music Studies	NIL	A-F	E	NIL	
PHI5180	The Life-World: Intersubjectivity and Ethics	1	The course will begin with a survey of Husserl's philosophy as a whole, what motivated it and how it developed. We will then go on to study carefully Husserl's view on subjectivity, intersubjectivity and objectivity. Husserl's reflections on intersubjectivity form the foundation for his work on ethics, which will be the main topic of the later part of the course.	NIL	A-F	E	NIL	
PHI5330	Seminar: Issues in the History of Chinese Philosophy (從老子到王弼)	3	Please refer to department's webpage. (http://phil.arts.cuhk.edu.hk/)	NIL	A-F	P	NIL	
PHY5330	Instrumentation I	3	This course provides an introduction to the working principles and operation techniques of instruments commonly used in experimental physics. Topics covered include: transducers and sensors; signal conditioning, propagation and conversion; noise, signal recovery techniques, computer interface, vacuum techniques, and integrated-circuit instrumentation. This course also includes laboratory experiments for practice and illustration of the subject matter.	NIL	A-F	E	NIL	

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PHY5450	Introduction to Soft Matter Physics	3	The aim of this course is to provide students the basic concepts and research methods in soft matter physics. Topics covered include: Structural, thermodynamic and dynamical properties of macromolecules, gels, colloids, amphiphilic molecules, membranes and liquid crystals. Principles for some of the major experimental techniques used in soft matter research will also be discussed. Students who take this course are expected to have a good knowledge of thermodynamics and statistical mechanics.	NIL	A-F	E	NIL	
PHY5520	Topics in Theoretical Physics (Introduction to Many-body Theory)	3	This course provides an introduction to the basic concepts and theoretical techniques of the quantum theory of many-body systems at zero-temperature as well as at finite temperature. Topics covered include: second quantization, Green's functions at zero-temperature, Green's functions at finite temperature, perturbation theory and Feynman diagram, equations of motion of the Green's functions, linear response theory, and applications of many-body theory in condensed matter physics.	NIL	A-F	E	NIL	
SEG5120	Advanced Topic in SE&EM (I)	3	http://www.se.cuhk.edu.hk/programmes/mphil_phd_courses.html	NIL	A-F	E	NIL	
SEG5520	Optimization I	3	http://www.se.cuhk.edu.hk/programmes/mphil_phd_courses.html	NIL	A-F	E	NIL	
SEG5580	Advanced Stochastic Models	3	http://www.se.cuhk.edu.hk/programmes/mphil_phd_courses.html	NIL	A-F	E	NIL	
SEG5600	Logistics & Transportation Planning	3	http://www.se.cuhk.edu.hk/programmes/mphil_phd_courses.html	NIL	A-F	E	NIL	
SEG5680	Text Mining Models and Applications	3	http://www.se.cuhk.edu.hk/programmes/mphil_phd_courses.html	NIL	A-F	E	NIL	
SOC5015	Advanced Theory	3	Please see this URL www.cuhk.edu.hk/soc (effective from August 1, 2009)	NIL	A-F	E	NIL	
SOC5025	Advanced Methodology	3	Please see this URL www.cuhk.edu.hk/soc (effective from August 1, 2009)	NIL	A-F	E	NIL	

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SWK5911A	Social Welfare and Social Policy	3	The course aims at helping students to examine the changing conceptions of social welfare, major theories of social welfare and social policy, the role and functions of social welfare in meeting needs and tackling social problems. Major social welfare systems of the West and East Asia (Hong Kong China, etc) will be introduced. The course will put emphasis on the development of social welfare programmes in Hong Kong in relation to poverty, unemployment, family problems and other social deprivations. Social work as a helping profession will be discussed, with particular attention on how they address and advocate for the cause of the vulnerable populations.	NIL	A-F	E	Quota for visiting students=5
SWK5920A	Human Behaviour and the Social Environment	3	The course aims to enable students to understand human growth and behaviour throughout the entire life span from pregnancy to death within different socio-cultural contexts, including family, group, organization and community settings. The basic concepts, theories, and research findings on human growth and behaviour will be introduced. Particular attention will be given to the application of related knowledge to social work practice. The course serves to introduce students to the physical, psychological and socio-cultural aspects of human growth and behaviour and the mutual influences among individuals, families, groups and the environment. Developmental issues and problems with reference to the different life stages will also be covered.	NIL	A-F	E	Quota for visiting students=5

Students will be directed to visit the Homepage of Graduate School for the teaching timetable.

[Note 1] Please provide information either in text or in hyperlink.

[Note 2] Please indicate result grade by A-F or P/U (A-F = fine grades from A to F; P/U=pass or unsatisfactory).

[Note 3] Please indicate medium of instruction by E, C or P (E = English; C = Cantonese and P = Putonghua).

= The first language will be used but will change to the second language when there is any student who does not know the first language.