CMED 4015 中醫專科研習與職業訓練 (12,0,*)
Specialty Studies and Professional Training of Chinese Medicine

該課程旨在幫助畢業班學生通過在實習醫院各科門診與住院部實習之後，進一步開展各專科的強化實習訓練，同時，通過醫案醫話與中醫文獻的研習，提高學生的中醫臨床思維和理論水平，加強學生的職業技能的培訓。其主要目的有四：(1) 通過加強內科、外科、婦科、兒科、針灸科、骨傷科等專科臨床診療技能的訓練，學習專科老師的獨特臨床經驗，提高臨床診療技能；(2) 通過中醫臨床思維方法、誤診誤治和醫案醫話的講授，加強中醫辨證論治思維與技能的訓練；(3) 輔以中醫文獻的專題研究，深化中醫專科知識與理論水平；(4) 通過中醫執業技能培訓，讓學生獲得中醫執業資格，成為合格的專業中醫師。

CMED 4018 Clinical Internship I (19,0,*)
CMED 4019 Clinical Internship II (18,0,*)

During the clinical internship, students will experience the full range of practitioner responsibilities under the supervision of practitioners and hospital staff. Students are expected to apply knowledge and skills acquired in the program in a hospital setting. Upon completion of this course, students are expected to be able to demonstrate skills in practitioner-patient communication, patient management and treatments. They are expected to be able to perform the diagnostic and treatment procedures for common diseases, and to be competent in treating common diseases with the use of Chinese medicine.

COMM 1005 Introduction to Communication (3,2,1) (E)

The purpose of this course is to introduce students who have had no prior experience with the field of communication to its diverse areas of study and its fundamental concepts. It will provide a common foundation for students in the School of Communication by presenting a coherent vocabulary for talking about communication and a comprehensive perspective for approaching subsequent courses within the School's various majors and options. The course also aims to demonstrate the interrelationships between options and departments and to stimulate interest in and commitment to the study of communication.

COMM 1130 Current Affairs and News (3,3,1)
Analysis

This is a course to help students develop news literacy. The aim of this course is to cultivate students' news reading habit, enhance their knowledge about current affairs and build up their news analytical skills so that they can better understand, analyse, use and monitor news in their daily lives.

COMM 1140 Multimedia Communication (3,3,1)

This course examines the impact of convergent media and networked communication technologies such as the Internet and mobile devices on the ways people access information, engage in social activities and professionally create content that can inform, persuade and entertain. It takes an interdisciplinary approach to the topic, critically evaluating emergent forms of communication and introducing the students to multimedia techniques for producing works of mass and personal communication. The course is aimed to combine theoretical frameworks and practical skills.

COMM 1160 Introduction to Communication (3,3,0)

The purpose of this course is to introduce students who have had no prior experience with the field of communication to its diverse areas of study and its fundamental concepts. It will provide a common foundation for students in the School of Communication by presenting a coherent vocabulary for talking about communication and a comprehensive perspective for approaching subsequent courses within the School's various majors and options. The course also aims to demonstrate the interrelationships between options and departments and to stimulate interest in and commitment to the study of communication.

COMM 1270 Media Literacy in a Changing (3,2,1)
Society

In the Web 2.0 age, young people are living in a media saturated world. Their values and social actions are significantly influenced by the media. With the rise of the Internet, media content is not only produced by media professionals, but also by ordinary people. From YouTube to blogs, information is being circulated without filtering and verification. Media literacy is defined as a life skill which enables young people to critically understand, analyse, use and monitor the media. A social participative approach is adopted in this course. Students are cultivated not only as active and critical media consumers but also as informed and responsible citizens. Positive psychology will also be integrated into the course so that students will be guided how to interpret media messages in a positive way.

COMM 2006 Communication Theory (3,2,1) (E)
(Communication Studies)

Prerequisite: COMM 1005 Introduction to Communication
A broad spectrum of theoretical development is explored encompassing interpersonal, group, organizational, mass, and public communication theories. Application of the theories is an important component of the class, especially in making the ideas relevant to the context of Chinese society and Hong Kong experience in order to provide a foundation to meet the dynamic changes in the discipline of communication.

COMM 2007 Communication Research Method (3,2,1) (E)
(Communication Studies)

Prerequisite: COMM 1005 Introduction to Communication
The students will learn basic concepts of research and research methodologies as applied in communication.

COMM 2310 Communication Theory (3,2,1) (E)
(Communication Studies)

Prerequisite: COMM 1160 Introduction to Communication
This course is structured to organize the different theories of human communication and examine interconnections between them. A broad spectrum of theoretical development is explored encompassing intrapersonal, interpersonal, group, organizational, mass, social, and cultural communication theories. Application of the theories is an important component of the class, especially in making the ideas relevant to the context of Chinese society and Hong Kong experience in order to provide a foundation to meet the dynamic changes in the discipline of communication.

COMM 2320 Communication Research Method (3,2,1) (E)
(Communication Studies)

Prerequisite: COMM 1160 Introduction to Communication
This course introduces students to the methods and ethics of scholarly research in human communication. A background on basic concepts of research is provided. Both quantitative and qualitative research methods are explored in ways to answer questions about communication. The entire research process is examined from introduction of the concept and review of the literature to the reporting of the findings, the analysis of the data and the writing of the final report.

COMM 2350 Communication Research Method (3,2,1)
(Cinema and Television)

Upon completion of this course, students should (1) understand the concept and value of research; (2) be able to design and create a research plan either for scholarly or creative projects; (3) be able to distinguish text and image-based research procedures; (4) know how to use the Library; (5) know how to access information in various formats; (6) demonstrate basic understanding of film as a visual, creative, and dramatic medium; and (7) critically evaluate the significance, competence and integrity of other research.

COMM 2360 Communication Theory (3,2,1) (E)
(Cinema and Television)

Prerequisite: COMM 2350 Communication Research Method (Cinema and Television)
This course introduces students to basic components of screen (film and television) theory. From early impressionistic but

astute observations on the cinema and television to full-fledged, systematic screen studies as a critical and sociological investigation, the course is structured by sets of problems intersecting with art history, literary criticism, social and critical theory and philosophy. It also aims to explore contemporary screen theory as an interdisciplinary investigation of formal, aesthetic, ideological, institutional and technological analysis. Upon completion of this course, students are expected to understand screen studies as a theoretically rich discipline that provides ample opportunities for cultivating critical thinking and aesthetic sensibility.

COMM 2370   Media Law and Ethics   (3,2,1) (E)
The course introduces students to the media law in Hong Kong. It will also cover major ethical issues facing the Hong Kong media industry professionals. Current developments and trends will be highlighted. The protection of fundamental rights and freedoms will be emphasized throughout the course. Practical day-to-day examples and important court cases will be used as illustrations. It is hoped that this approach will facilitate the training of media industry professionals who would not only protect and promote media freedom but also respect dignity and rights of others.

COMM 2380   Communication Theory   (3,2,1) (E)
(Journalism)
This course examines various theoretical perspectives and practices regarding the performance, role, functions, and effects of journalism and media in modern society, with a specific emphasis on issues in the greater China context. We have three primary tasks: (1) to provide a basic understanding of journalism and mass media as social institution; (2) to give students an ability to critically evaluate the interplay between journalism and the larger socio-political environment; and (3) to enhance students' knowledge about the production, content, meaning and impact of news.

COMM 2390   Communication Research Method   (3,2,1) (E)
(Journalism)
Prerequisite: Year II standing and JOUR 1120 Introduction to Journalism
This is a basic research methods course for those with little or no previous experience or course work in research methodology. The goal of the course is to (1) familiarize students with main types of measurement and collection of evidence in the field of mass communication, particularly journalism; (2) provide students with a critical framework for evaluating communication and communication research conducted by others; (3) give students some first-hand experience in the research process; and (4) sensitize students to the need of answering communication and related questions in a scientific manner.

COMM 3110   Information Design   (3,2,1)
Prerequisite: COMM 1140 Multimedia Communication
The course is aimed to provide students with a reflective understanding of the rapidly developing information industry. It will introduce theoretical principles, basic design strategies and techniques required for the selection, organization and presentation of information resources. The focus will be the process of clarifying communication goals and arranging content into a design that should be considered in planning and designing effective and accessible products for a variety of audiences and media—from print to digital. The course covers wide range topics with hands-on opportunities for students to implement the learned knowledge and skills into real-world practice. It is a unique interdisciplinary course that emphasizes on the creative and managerial aspects of new media technology to produce, deliver and present meaningful information content in a variety of innovative interactive forms.

COMM 3120   Cross-Cultural Documentary   (3,*,*)
Workshop
This course will enable students with better understanding and sensitivity on cross-culture, ethnic and socioeconomic environment as well as the trend of globalization through international collaboration. By using film/video medium, students will acquire the basic elements of communication with images and sounds in documentary production; learn how to develop a documentary film idea from various sources based on different cultural environment. Students from different cultural background will work together in research, production, critique and discussion of their own and documentary production of all kinds. Through group project, students will explore production strategic and creative methods in order to develop visual communication with an audience and develop a personal approach to documentary filmmaking.

COMM 7010   Foundations of Communication Study (3,3,0)
Survey of the theories and issues in communication in a systematic fashion and from a historical perspective, with a focus on those theories and issues that bear strong implications for the present situations of Hong Kong, Taiwan, and mainland China. This course seeks to (1) establish a coherent understanding of the progressive development of the discipline of communication; (2) provide a context for critical appreciation of current scholarship and research in communication; and (3) offer a reasonable account of future conditions for human communication.

COMM 7020   Approaches and Methods in   (3,3,0)
Communication Research
The purpose of this course is to introduce graduate students to research methods that are useful to communication professionals. Beginning with an overview of the philosophical underpinnings of research, the course then proceeds to present the fundamentals of research design, measurement, and data analysis. While a wide variety of research methods will be discussed, the focus is primarily on survey, focus group, experimental design, and content analysis. Finally, ethical considerations of communication research will be explored.

COMM 7030   Perspectives on Media and Society   (3,2,1)
We will examine the theory and evidence regarding the role of mass media and other forms of communication in various types and contexts of social systems. We begin with basic ways of recognizing, evaluating, and constructing theories of communication. This serves as a framework for the rest of the course. We will then analyse existing types of marco-social theories, mainly those that deal with societies, communities, organizations, and groups.

COMM 7040   Issues in Intercultural Communication (3,3,0)
The course examines important theories and research related to the process of intercultural communication. This course is designed to provide students with the tools to analyse and identify barriers that develop within the intercultural context. Various issues in intercultural communication studies will be examined.

COMM 7050   Media and Communication in   (3,3,0)
Chinese Societies
This course investigates the cultural, historical, and modern roots of media and communication in the three Chinese societies. Roles and controls of media and communication in post 1949 decades and recent reforms vis-a-vis political economic changes in the three societies are emphasized. Possible future convergence of the three systems are examined in both theoretical and practical perspectives. Political economy in the three Chinese societies and theories on communication and change comprise the foundation of this course.

COMM 7060   Issues in Corporation Communications (3,3,0)
The course presents foundations for graduate-level critical thinking about the integrated nature of internal and external communications in the contemporary organization. Asian and western organizational theories and the role communication plays within them are offered at the outset. Students then explore a variety of organizational structures and the kinds and volumes of information that flows in all directions bringing life to the organization.

COMM 7080   Special Topics in Communication   (3,3,0)
This course caters to student interests and/or research needs as well as faculty specialization. Topics vary from year to year as different communication or media issues become pertinent and as the interests of faculty and students change. They will also be developed to take the advantage of the special expertise of visiting faculty members.

COMM 7120   Advanced Communication Design   (3,3,0)
**   and Research**
Prerequisite: C O M M   7 7 4 0   R e s e a r c h   M e t h o d s   i n Communication
This course is an advanced approach to the concepts, techniques, and use of, a range of quantitative research techniques focusing on the issues and processes involved in designing, conducting, and interpreting research. It provides an in-depth experience with statistical concepts, tests and interpretation designed to help students understand the benefits and limitations of research. The course can be repeated with different foci.

COMM 7130   Globalization of Media and   (3,3,0)
**   Communication**
Globalization has become an increasingly important paradigm in social science fields. This resonates with the ongoing process of globalizing culture and communications. The course examines the issue systematically. It covers a wide range of topics in the framework of globalization, and provides students with a better understanding of the recurring themes and current trends in global communication.

COMM 7140   Classics and Milestones in   (3,0,3)
**   Communication Research**
This course focuses on guided study of selected communication research classics or milestones. Students will gain in-depth knowledge of their chosen communication researchers or themes. Through reading and sharing, students are sharpened in both theoretical and methodological conceptualization.

COMM 7160   Organizational Communication   (3,3,0)
The course will help students understand how communication functions within organizations and how communication behaviours can be managed to improve employer-employee relationships, employee-employee relationships, organizational efficiency, etc. Application of theories to analyse Hong Kong organizations will be emphasized.

COMM 7170   Communication Campaign Workshop (3,2,1)
This course examines public relations, advertising as well as integrated communication campaign strategies, and case histories. It reviews all that has to be accomplished to create a compaign for a client organization, including the knowledge and skills necessary to research, design, implement, evaluate and manage such campaign programmes.

COMM 7180   Media Law and Ethics   (3,3,0)
This course explores and highlights major development and trends of Hong Kong media law. Specifically, it covers the broad issues concerning media freedom, media regulation, and various media laws as rights for both media practitioners and consumers. Throughout the course, the protection of fundamental rights and freedoms will be emphasized. The course also examines social origins and consequences of media laws in Hong Kong.

COMM 7190   Issues and Cases in Mass   (3,3,0)
**   Communication**
This course closely examines eight key aspects of journalism practices and relevant theories. Existing theoretical propositions, evidence, and practices with regard to these aspects will be explored in depth. Special emphasis will be placed on the social impact of both traditional and new forms of journalism. The roles and functions of media routine practices and their antecedents are also subject to close scrutiny.

COMM 7200   New Media Workshop   (3,3,0)
The course introduces students to new media, with particular focus on multimedia and the Internet. It emphasizes the theoretical influence of new media technology on communication and social change. Through lectures, discussions, presentations, and practical sessions, students learn how to make the best use of the latest communication tools to solve communication problems. Lab sessions are incorporated into the course to give students hands-on experience.

COMM 7210   Project   (3,0,3)
Prerequisite: 24 units including Core and Module requirements
The project allows the student an opportunity to describe and analyse a contemporary media or communication issue with respect to the theories or concepts they have learned in the coursework. Preparing the project educates the student in systematic and critical thinking through the process of gathering, organizing and analysing data for presentation.

COMM 7220   Advertising Management   (3,3,0)
The course will help students understand the managerial and decision-making processes of advertising and develop ability to analyse market and competitive environments, and develop and present advertising solutions. Application of theories to analyse China and Hong Kong market situations will be emphasized.

COMM 7230   Writing for Multimedia in Public   (3,3,0)
**   Relations**
This course provides instruction and writing practice designed to develop the professional-level writing skills expected of public relations practitioners, emphasizing the multimedia approaches required for different audiences and media.
This course advances the level of writing competency by building on the knowledge and skills that students may already have. Supervised and individual experiences in communication techniques such as public speaking, liaison with the media and audio-visual/internet communications are assigned. This course also explores, especially, writing abilities necessary for handling different and more complex communication situations.

COMM 7240   Media Economics   (3,3,0)
This course introduces basic concepts and theories of economics that inform and underpin the economic decisions and practice of media firms. It would also help understand the economic constraints under which media institutions, both private and public, operate. Accordingly, the course is aimed to achieve the following: (1) providing a basic understanding of media firms as business entities operating in the market where a number of forces are interacting; (2) equipping students with the analytical tools in interpreting economic phenomenon in media markets; and (3) enhancing students' knowledge of the media markets in both Hong Kong and mainland China.

COMM 7250   Strategic Public Relations and Crisis   (3,2,1)
**   Management**
This course will not only concentrate on communication in crises but also highlights what we can do to prevent or minimize the impacts from crises. We will investigate important concepts of strategic management of public relations, issues management, risk communication, activism, principles of crisis communication, and crisis communication from publics' perspective. In addition, we will incorporate local and overseas cases for students to comprehend how to deal with crises in reality.

COMM 7260   Introduction to Media Management   (3,3,0)
This is an introductory course to study media management in an era of change. The main purpose is to examine and analyse the new challenges being posed by political, economic and technological changes in the new millennium to media management in various Chinese societies. The course will begin with an overview of the media industries in Hong Kong, Taiwan and mainland China. It moves on to deal with media operational strategies, media content production and flow management,

media marketing management, information management for media organizations and resources management.

COMM 7270   Media Policies and Regulations   (3,3,0)
This course discusses structural constraints as well as legal and ethical regulations of media operation. Politics of media policy formation, such as political systems, geographical location, and socio-economic factors, will be analysed. The focus is on the current state in the pan-Chinese society within a globalized world context.

COMM 7280   Communication Technologies and   (3,3,0)
Media Organizations
The course introduces students to impacts and application of communication technologies with focus on new media, particularly multimedia and the Internet. It discusses the theoretical aspects of impacts of media technologies on communication, organization, and social change. Students will learn to apply the latest communication technologies for development and management of media organization.

COMM 7290   Professional Seminar and   (4,0,0)
Application Project
This course is designed to accommodate both student interests and faculty expertise, as well as media professionals' input, by discussing media management issues and problems. Analysis of cases ensures maximum interaction among the students. It also prepares the students for the completion of a group Application Project. The Project demonstrates the ability to apply knowledge and research in analysing or solving a media management problem.

COMM 7300   Consumer Insights   (3,3,0)
This course studies the role consumer behaviour plays in the development and implementation of communication campaigns in Hong Kong and Asia. It examines the consumer decision-making process and how it varies for different types of purchases, the various psychological processes including consumer learning process, and external factors such as culture, social class, group influences, and situational determinants. Global consumer issues including GMO food regulation and consumer activism on company's communication strategies will be examined. Application of current theories and research findings in cross cultural consumer studies will be emphasized.

COMM 7310   International Advertising   (3,3,0)
The course will help students understand the challenges and difficulties in designing and implementing advertising across different countries and societies. Students will learn about the issues of centralization versus decentralization and standardization versus localization. They will also learn practical issues such as regulation considerations and social responsibility of international advertising agencies.

COMM 7510   Public Administration and the Media   (3,3,0)
The course examines the different perspectives on the relationship of public administration and mass media in a modern society. Media factors affecting or facilitating public administration will be discussed. Cases on media relationship and crisis management will be analysed in light of local (Hong Kong) and mainland China settings.

COMM 7520   Cross-cultural Documentary Workshop (0,3,0)
This course enables students to have better understanding and sensitivity on cross-culture, ethnic and socioeconomic environment as well as the trend of globalization through international collaboration. By using film/video medium, students will acquire the basic elements of communication with images and sounds in documentary production, and learn how to develop a documentary film idea from various sources based on different cultural environments. Students from different cultural backgrounds will work together in research, production, critique and discussion of their own and documentary production

of all kinds. Through group projects, students will explore production strategic and creative methods in order to develop visual communication with an audience and develop a personal approach to documentary filmmaking.

COMM 7530   Information Design   (0,3,0)
Prerequisite: COMM 7540 Multimedia Production or by consent of instructor
The course aims to provide students with a reflective understanding of the rapidly developing information industry. It will introduce theoretical principles, basic design strategies and techniques required for the selection, organization and presentation of information resources. The focus will be the process of clarifying communication goals and arranging content into a design that should be considered in planning and designing effective and accessible products for a variety of audiences and media—from print to digital. The course covers wide range topics with hands-on opportunities for students to implement the learned knowledge and skills into real-world practice. It is a unique interdisciplinary course that emphasizes on the creative and managerial aspects of new media technology to produce, deliver and present meaningful information content in a variety of innovative interactive forms.

COMM 7540   Multimedia Production   (0,3,0)
The course combines an interdisciplinary approach to multimedia production with emphasis on both developing students' knowledge of the issues around digitalization and convergence and the critically evaluating of multimedia development in terms of technical, business and social aspects. Students are prepared to produce and present media materials for the Internet, for CD-ROMs and other multimedia systems. In addition, the lab-based work is aimed to develop students' skills in interdisciplinary practice and problem solving methodologies.

COMM 7550   Advertising in China   (3,3,0)
The course will help students understand the challenges in planning and implementing an advertising strategy in China. Specifically, students will develop the ability to analyse the dynamic and diverse market environment in China and to stategically plan and implement advertising solutions therein. Issues relevant to developing advertising solutions in China such as understanding her market structure, culture and changing consumption patterns, branding issues faced by international and local firms, and the opportunities and challenges brought on by the new media will be discussed.

COMM 7560   Political Communication and Public   (3,3,0)
Opinion
The course will help students understand various aspects of political communication in modern society, and will prepare them for taking different social roles which require skills of strategic communication or professional journalistic writing in the context of Chinese societies. This course is interdisciplinary that draws upon a variety of literatures from media studies, political science, sociology, strategic communication, and journalism. The class embraces both theory and practice. The first part of this class will help students to lay a solid ground for understanding the dynamic relationships between media, politics, and democracy, with a special emphasis on the media systems in Greater China. The second part of this class will help students to build up skills of strategic political communication and journalistic writing on public opinion and politics.

COMM 7570   Youth, Media and Consumption   (3,3,0)
Children and youth are a big global market. Marketers are interested in the effectiveness of their marketing communication in selling products, ideas, services to them. The underlying concern of parents and public policy makers is whether marketing communication to youth exploits children/youth and manipulates them to buy things they do not need. The course aims at equipping students to make informed decision about marketing to children/youth or regarding suggestions made about

limiting marketing to children/youth. The course will begin with the cognitive and affective responses toward commercial communication, as well as development of the understanding of brands among young consumers. Parental and peer influence and the application of integrated marketing communication will be explored. Ethical issues involved in marketing and advertising to young consumers will be discussed. The course will conclude by examining issues related with undesirable consequences of advertising to young consumers, such as gender stereotyping and materialism.

COMM 7580   Social Media Marketing   (3,3,0)
The advent of social media and mobile media devices, such as smartphones and tablet, is rapidly changing human interaction, including business models. Millions of people worldwide are living much of their lives on SNS, such as Facebook, Twitter, Blog, YouTube and LinkedIn in the United States, and Renren, Weibo in China. Global Internet users spent more than one fifth of online time on social network sites or blogs. The trend exemplifies that human interaction, including business environment, has being deeply transformed by social media.

COMM 7710   Independent Readings in   (3,*,*)
**   Communication**
Readings are especially designed by the instructor for and tailored to the student to broaden intellectual perspective and to provide indepth understanding of specific research areas.

COMM 7720   Proseminar in Communication   (1,1,0)
This course is an overview of communication studies and in areas intends to build on a basic foundation. It will take students further into the field to develop an appreciation of contributions of parallel domains in the social sciences and humanities and connection to them. Students will be trained to think critically about the issues across areas, seek inspiration in previously unfamiliar areas, and reflect on their own research.

COMM 7730   Academic Research Taskforce   (3,3,0)
Prerequisite: COMM 7740 Research Methods in Communication
The aim of this course is for research postgraduate students to master hands-on academic research skills through practice and experiential learning under the direction of faculty members. Students will carry out primary research to become familiar with step-by-step execution of specific research method(s), along with necessary fine-tuning of the operational details in one or more quantitative and qualitative research methods.

COMM 7740   Research Methods in Communication (3,3,0)
The course covers the conceptual process and operational procedure in research including conceptualization and study design, operationalization and instrumentation, data collection and data analysis, as well as interpretation of findings and writing the report. Related topics on validity, relability, and ethical issues in conducting research on humans are integral part of the content.

COMP 1000   Supplementary Computer   (0,1,3) (E)
**   Programming Laboratory**
This course introduces basic operating system commands and problem solving skills, and provides students with fundamental structured programming practices.

COMP 1005   Essence of Computing   (3,2,2) (E)
This course provides students with an overview of Information & Communication Technologies, together with basic knowledge of computer-oriented problem solving methodologies, algorithm development, programming concepts and design techniques.

COMP 1006   Facets of Computing   (1,1,0.5) (E)
This course provides students with an overview of core areas in computing, an appreciation of their potentials and limitations, and a glimpse of the career path of IT professionals.

COMP 1020   Introduction to Information   (1,1,0) (E)
**   Systems**
This course provides students an overview of the IS programme, the different involved specialties in the computer science and information systems fields in the business domain, and a glimpse of the career path of IS professionals.

COMP 1150   Object-Oriented Programming   (3,3,2) (E)
Prerequisite: COMP 1170 Introduction to Structured Programming or COMP 1180 Structured Programming
This course introduces the object-oriented programming concepts, principles, and techniques, including classes, objects, inheritance, and polymorphism. All these concepts are illustrated via a contemporary object-oriented programming language.

COMP 1160   Database Management   (3,2,1) (E)
This course introduces how to represent the data in a database for a given application and how to manage and use a database management system. Topics include: conceptual modelling of a database, relational data model, relational algebra, database language SQL and relation database design. In addition, hands-on DBMS experience is included. Students who have received credits for COMP 1160 are not allowed to take I.T. 1530, or vice versa.

COMP 1170   Introduction to Structured   (3,2,1) (E)
**   Programming**
This course introduces a methodical approach to programme development, starting from problem formulation and specification, through design of the solution, implementation, and documentation, to evaluation of the solution. The course matter is taught through a high-level structured programming language. This course is not available to Computing Studies, Computer Science and Physics majors with Computer Science concentration.

COMP 1180   Structured Programming   (3,3,2) (E)
This course provides students with basic knowledge of computer-oriented problem solving methodologies, algorithm development, structured programming concepts and design techniques, and implementation tools that facilitate debugging and testing. In particular, structured programming skills will be illustrated with a contemporary programming language. This course is open to Computer Science majors, Computing Studies majors, and Physics majors with Computer Science concentration only.

COMP 1210   Data Structures and Algorithms   (3,2,1) (E)
Prerequisite: COMP 1170 Introduction to Structured Programming or COMP 1180 Structured Programming
This course develops students' knowledge in data structures and the associated algorithms. It introduces the concepts and techniques of structuring and operating on Abstract Data Types in problem solving. Common sorting, searching and graph algorithms will be discussed, and the complexity and comparisons among these various techniques will be studied.

COMP 1320   Computer Organization   (3,3,0) (E)
This course introduces the organization of digital computers, the different components and their basic principles and operations.

COMP 1600   Software Development Workshop I   (0,2,2)
**   Prerequisite: COMP 1180 Structured Programming**
This workshop introduces the basic concepts in network and server administration, web server programming and multimedia. Practical hands-on experience on server administration, web programming and multimedia tools will be emphasized.

COMP 1610   Interactive Computing for Visual (3,3,0) (E)
**   Communication**
Media convergence has transformed the computational machine into an unprecedented rich multimedia communication medium with ubiquitous connectively and interactive capability. This