

Special Terms for Academic Year 2007-2008**General Education Requirement (GER) Courses to be offered to Returning NSMen (RNS) for Special Terms (May to July 2008)**

S/No	School	Course	Course Code	Course Type: Core / GER-PE/ UE	AUs	Course Description	Remarks
College of Engineering							
1	School of Computer Engineering (SCE)	GETTING WHAT YOU WANT WITH NEGOTIATION	CPE811	GER-PE (BM) /GER-UE	3	Approaches, styles & outcomes, Interpersonal communication, Argumentation. The Negotiation Process: Planning and preparing, defining issues, objectives, desired outcomes, Using psychology, tactics and strategies, strengthening case, working toward agreement, making proposals, looking for common ground, feedback/countermoves, helping other party move. Dealing with the difficulties: what can go wrong, handling conflict, deadlock. Working towards closure. Issues of gender, culture, perception, emotion. Use of power. Electronic negotiation.	Offered in Special Term 2.
2		RISKS, PIRACY AND OTHER CRIMES IN THE COMPUTER AGE	CPE801	GER-PE (STS)/GER-UE	3	Brief history and benefits of computers: Impact and control of computers: social implications of computing, impact of computer technology, controlling technology; Risks and liabilities of computer-based systems: system failures, example of software risk (the Therac-25 case), increasing reliability and safety; Privacy and information: computer-based threats to privacy, technical and management protection for privacy; Intellectual property, copyrights and patents, software piracy, copyright in cyberspace, Computer crime: intruders, hacking and cracking, sabotage and information theft, computer crime laws, Professional and ethical responsibilities: Ethical guidelines for computer professionals, codes of ethics, conduct and practice (e.g. ACM).	Offered in Special Term 1.
3		OPEN SOURCE OFFICE PRODUCTIVITY TOOLS	CPE802	GER-PE (STS) /GER-UE	3	Philosophy of Open Source Software (OSS) and its contribution to innovation; History of OSS; Brief introduction to pure OSS environments including Linux, XWindows, KDE, Gnome; Demonstration of hybrid OSS environments (cygwin and xwindows under Microsoft Windows); OSS Office productivity tools (OpenOffice), including spreadsheet, word processor, presentation, advanced drawing tools, and database connectivity for creating self-updating reports and graphs; OSS Web browsers (Mozilla Firefox); OSS Mail client (Mozilla Thunderbird); OSS project management (Open Workbench); OSS Database manipulation (MySQL command centre); OSS Graphics Manipulation (GIMP); OSS web content management and collaboration tool (Zope/Plone).	Offered in Special Term 1.
4		FROM PONG TO WARCRAFT	CPE804	GERPE(STS)/ GER-UE	3	The course will provide a historical approach to the development of computer and video games from the 1st generation to the current 7th generation. The course will look at the evolution of video games from different angles: culture, technology, and business. The following topics will be discussed in the context of games: the introduction of new concepts; technological milestones; biggest commercial hits and flops; the rapid developments in computer and device technology.	Offered in Special Term 1.
5	School of Electrical and Electronic Engineering (EEE)	FINANCIAL AND MANAGEMENT ACCOUNTING	EE8062	GERPE(BM)/ GER-UE	3	Financial accounting. Cost accounting. Management accounting. Financial instruments. Business organizations.	Offered in Special Term 2.
6		ELECTRICITY FOR MODERN SOCIETY	EE8085	GERPE(STS)/ GER-UE	3	Conventional sources of electricity generation, transmission and distribution systems. Clean/green power and renewable sources. Liberalization of electricity industry and energy procurement. Electricity utilization and quality. Energy conservation. Safety.	Offered in Special Term 2.
7		ASTRONOMY – STARS, GALAXIES AND COSMOLOGY	EE8086	GERPE(STS)/ GER-UE	3	The origin of modern astronomy - an introduction, Learn to read the stars, Overview of the solar system, The beginning and life of stars, The mysteries ahead, The future of space exploration.	Offered in Special Term 1.
8	School of Mechanical and Aerospace Engineering (MAE)	HISTORY OF GREAT INVENTIONS	MP8085	GERPE(STS)	3	Module One: The First Sparks Of Genius: How Technology Made Civilization Possible (2.6 Million Bc to Ad1). Module Two: Looking At New Horizons: Spreading Knowledge and Shrinking the Globe (Ad1 to 1649). Module Three: The Age Of Industrial Power: Harnessing Steam Brings a New Way of Life (1650 to 1829). Module Four: Electricity On The Move: The Story Of Light, Sound And Motion (1830 to 1899). Module Five: Journey Into The Atomic Age: Two World Wars Force the Pace of Change (1900 to 1944). Module Six: Reinventing the World: Living with the Chip and the Gene (1945 to 2000 and Beyond).	Offered in Special Term 2.
9		THE KNOWLEDGE-BASED ORGANISATION	MP0111	GER-UE	2	Knowledge and Intellectual Capital. Leading the Knowledge-Based Organization. Organizing the Knowledge Creation Process. The Management of Knowledge. Knowledge as Assets. The Transfer of Knowledge as Assets. The Transfer of Knowledge. Knowledge in Inter-Organisational Relations. .	Offered in Special Term 1.

College of Science							
10	School of Physical and Mathematical Sciences (SPMS)	PHYSICAL AND MATHEMATICAL SCIENCES I	MPS901	GER-UE	3	This course is intended to prepare students for degree courses in the physical and mathematical sciences by exposing them to key topics and concepts. Students will grasp the fundamental principles of chemistry and physics, and techniques in mathematics, and be able to apply them in problem solving: Polynomials. Partial fractions. Sequence & series. Trigonometric functions and identities. Polar coordinates. Mathematical induction. Dimensions and unit; kinematics; Newton's laws of motion; linear momentum and its conservation; force, equilibrium and moments; work, energy and power; circular motion; gravity; kinetic theory of gases and equation of state; thermal equilibrium and temperature; heat capacity and latent heat; 1st law of thermodynamics and internal energy; simple harmonic motion, damped and forced oscillations. The mole concept and Avogadro's number, atomic structure, chemical bonding including ionic and covalent, oxidation state, ideal gas behavior, enthalpy, Gibbs Free Energy and equilibrium.	A-level Mathematics or equivalent. Offered in Special Term 1.
11		PHYSICAL AND MATHEMATICAL SCIENCES II	MPS902	GER-UE	3	This course is intended to prepare students for degree courses in the physical and mathematical sciences by exposing them to key topics and concepts. Students will grasp the fundamental principles of chemistry and physics, and techniques in mathematics, and be able to apply them in problem solving: Complex numbers – de Moivre's Theorem, geometric interpretation. Vectors—equations of planes and lines, vector products. Integration – reduction formulas, mean values, centroids, arc lengths, surface areas of revolution. Types of waves, polarisation, speed, frequency and wavelength; superposition, diffraction and interference; electric field and potential; capacitors; electrical energy; current and dc circuits; magnetic field and force, electromagnetic induction; ac circuits, transmission rectification and transformers; operational amplifiers; electrons and charged particles; Planck's hypothesis, photoelectric effect, de Broglie's hypothesis and atomic line spectra; nuclear binding energy, radioactive processes and decay. Simple kinetics including first and second order reactions, the use of the periodic table to predict trends in chemical properties of elements, the structure of organic compounds, including isomerism and stereoisomerism, simple reactions of organic compounds.	A-level Mathematics or equivalent. Offered in Special Term 2.
College of Humanities and Arts							
12	School of Art, Design & Media	SPORE ARCHITECTURE:THE HIS,CULTURAL & SOC-ECON PERSPECTIVES	GD03	GER-UE	3	The study of Singapore Architecture examines the historical, cultural and socio-economic influences on architectural development of Singapore over the years. The concepts of architecture and development are clarified and illustrated by the critical analysis of selected case studies of architectural designs at different periods in the history of Singapore. These offer a broad overview of the multi-cultural influences, as well as the innovative technological advances that have come to characterize Singapore architecture. These serve future generations who learn to appreciate the dynamic impact of past influences on the emerging architectural developments on the one hand, and the imperatives and consequences of the socio-economic and cultural influences on the other.	Offered in Special Term 1.
13		COMPUTER AIDED DESIGN WORKSHOP II	PRO340	MAJOR PE and GER-UE	3	Students in this studio learn the fundamentals about lighting as they pertain to a full array of product surfaces, with an emphasis on learning the necessary skills to create professional quality product renderings. Students focus on a variety of advanced digital techniques for portfolio development strategies. Students use work from past projects to develop more polished and sophisticated presentations in preparation for their portfolios and internships including the design and production of a CD-ROM and animations.	This course is opened to ADM (non-Product Design) students as a major PE. It is not opened to Product Design students who take it as a Core. It is also offered as GERUE to non-ADM students. Offered in Special Term 1.
14		ECO-ARCHITECTURE IN THE URBAN LIVING ENVIRONMENT	GN02	GER-UE	3	The course on the eco-architecture in the urban living environment examines the key environmental issues and their impact on the built-up urban living conditions around us. The concepts of the eco-green architecture are clarified and illustrated by the critical analyses of case studies of both the natural and man-made landscapes such as the Nature Reserves of the National Parks (NParks), the Green Belt, Public spaces and Urban Parks, Water Catchment, Rivers and Reservoirs that contribute to the creation of a harmonious and eco-friendly living urban environment in Singapore.	Offered in Special Term 2.
15		MAGIC OF VOICE IN THE WORLD OF A SINGER	GV17	GER-UE	3	This course increases your awareness of physiological influences on singing, based on the anatomical and muscular function in the effective performance of a singer Each topic deals with the various elements of singing, such as posture, breathing, resonance, articulation.. etc. The course deliberates on how these contribute to your understanding of what good singing is and in the development of a good voice singing is and in the development of a good voice. The study leads you to analyze a variety of music to show the magic of voice that make a singer.	Offered in Special Term 1.
16		INTRODUCTION TO PSYCHOLOGY	HP101	GER-UE	3	This course is an introductory overview of fundamental areas in the contemporary study of psychology. Topics include the biological bases of behaviour, sensation and perception, memory, thought and language, social behaviour, intelligence, motivation, learning, personality and development.	Offered as UE / Minor course only. Not offered to psychology student (core subject). Offered in Special Term 1.
17	UNDERSTANDING CHINESE CINEMAS (in Chinese)	HC801	GER-PE (AHSS)	3	This course mainly focuses on films produced by Chinese communities living in Hong Kong, Taiwan and mainland China. The geographical demarcation also marks the different cultural and social contexts in which the films are made and marketed at. The films selected for cultural appreciation in the course not only represent the major cultural developments and trends they have contributed to world cinema but also the intellectual meanings and emotional impact they play among Chinese and non-Chinese audiences. By exploring different varieties of Chinese cinemas, students will gain an in-depth knowledge of the societies in which they originate from and the inner and cross-cultural dialogues that preside within. The course is conducted in Mandarin.	Course is taught in Chinese. . Offered in Special Term 1.	

18	School of Humanities and Social Sciences (HSS)	UNDERSTANDING CHINESE CINEMAS (in English)	HC802E	GER-PE (AHSS)	3	his course mainly focuses on films produced by Chinese communities living in Hong Kong, Taiwan and mainland China. The geographical demarcation also marks the different cultural and social contexts in which the films are made and marketed at. The films selected for cultural appreciation in the course not only represent the major cultural developments and trends they have contributed to world cinema but also the intellectual meanings and emotional impact they play among Chinese and non-Chinese audiences. By exploring different varieties of Chinese cinemas, students will gain an in-depth knowledge of the societies in which they originate from and the inner and cross-cultural dialogues that preside within. [This course is conducted in English].	Course is taught in English. . Offered in Special Term 2.
19		WORKING IN THE 21ST CENTURY	HP802	GER-PE (AHSS)	3	Work in the 21st Century, is characterised by competition on a global scale, where jobs are becoming increasingly knowledge-intensive and technology-driven, and where constant change is the rule rather than the exception. This course aims to provide students with an understanding of some areas of study within the field of behavioural science that are relevant and applicable to the work situation. Working in the 21st Century explores the role of socio-psychological factors among individual and work group behaviour as a basis for understanding our place in the work setting. The lecture topics present four areas of interest - personality and work, occupational health, learning-performance, and career development. While each section is designed to be a stand-alone module, all the four areas of study are fully integrated within the general context of the work situation in organisations. Empirical findings from applied research are used to explain psychological principles and concepts and the course emphasizes a practical approach to applying psychology in the workplace.	Offered in Special Term 1.
20		INTRODUCTION TO HUMAN RESOURCE MANAGEMENT	HP805	GER-PE (AHSS)	3	In today's fast-paced and competitive work environment, a student is often lost as to how and where to find jobs and how to manage one's career. This course will provide an introduction to the contemporary human resource management functions: employment, employee relations, training and development, performance systems, compensation, benefits, and human resource information systems. It is not the objective of this course to train students to be HRM managers, but to provide basic information for students to plan and manage their own careers.	Offered in Special Term 1.
21		PSYCHOLOGY OF CAREER DEVELOPMENT	HP807	GER-PE (AHSS)	3	This highly practical course draws on principles and theories from psychology to help students to understand their own life-career development; and proactively develop their strategy and plans to make occupational choice(s), transition from learning to workplace environment and continual career development and progression. Drawing on academic and research work in a variety of fields in psychology, the course will facilitate students career management and development skills. Practical illustrations will be used extensively during the learning process.	Offered in Special Term 1.
22	School of Humanities and Social Sciences (HSS) / Language and Communication Centre (LCC)	FRENCH LANGUAGE LEVEL 1	HMF1	GER-UE	3	This course introduces the French language, culture and civilization to complete beginners. Students will learn the basics of the French language through a textbook and a work book developed specifically for the needs of NTU students. Audio and video resources are also integrated into the course to expose students to authentic language use. They will learn the most common verbs, words and sentence constructions in French. During class, they will role-play, answer simple questions orally, watch videos, read texts and dialogues, and write simple essays.	Offered in Special Term 1.
23		GERMAN LANGUAGE LEVEL 1	HMG1	GER-UE	3	This is an introductory language course to provide students with a working knowledge of German and an introduction to the culture and geography of Germany. The course covers the basic language skills of reading, writing, listening and speaking. Lessons are composed of individual and group work, role-play and simulation. By the end of the course, students should be able to write simple messages, extract information from written texts and communicate in basic German on everyday topics.	Offered in Special Term 1.
24		JAPANESE LANGUAGE LEVEL 1	HMJ1	GER-UE	3	This course introduces students to the Japanese language, culture and customs. It begins with the learning of the Japanese Standard Writing System, which is a combination of Hiragana, Katakana, and Kanji. Basic greetings and sentence structures are taught in a progressive manner from recognition to guided and independent reproduction. Apart from grammar explanations, the tasks incorporated in the course include exercises in listening comprehension, reading comprehension and conversational practice through role-play activities. Approximately 40 sentence patterns and 300 words/phrases are covered under this introductory syllabus. A comprehensive range of teaching aids are used to engage students in interactive learning.	Offered in Special Term 1.
25		KOREAN LANGUAGE LEVEL 1	HMK1	GER-UE	3	This course is designed for beginners with no prior knowledge of Korean. It introduces students to the Korean language and covers reading and writing of the Hangul script as well as pronunciation. Starting with greetings, the course proceeds to develop communication through basic grammar, vocabulary and reading skills for simple sentences. Students will develop the four skills of listening, speaking, reading and writing in an interactive and integrated manner through theme-based activities that relate to daily life. By the end of the course, students will be able to read, write, and talk about topics such as identities, everyday activities, time, numbers, weather and location in basic Korean.	Offered in Special Term 1.
26		SPANISH LANGUAGE LEVEL 1	HMS1	GER-UE	3	Designed for beginner students, this course in basic Spanish teaches the four skills in an integrated manner, using a communicative approach. Through the use of various written and audio-visual materials, students are trained to: provide personal information about themselves (name, address, nationality, occupation, studies, etc.), describe things and people (physical appearance and personality), locate things and people, express habitual actions at specific times, talk about festivities and special events, and express their hobbies and likes/dislikes. In addition to teaching the language, this course also aims at providing students with a global vision of the Spanish and Latin American culture from various perspectives (arts, music, festivals, gastronomy, etc.).	Offered in Special Term 1.

27	Wee Kim Wee School of Communication and Information (SCI)	FICTIONAL FILM:FROM HOLLYWOOD TO BOLLYWOOD	CS119	GER-PE (AHSS) & GER-UE	3	This course aims to introduce students to the critical analysis of global fiction films through the study of film history, film form and film theory. The course will expose students to a wide range of international fiction films through the screening of significant films, the discussion of the major episodes of film history, an exploration of film genres and an overview of important film trends. Students will be introduced to significant global cinemas and film genres with the goal of examining films critically within the wider institutional, economic and cultural contexts of production and reception.	No pre-requisite. Not offered to Communication Studies student. Offered in Special Term 2.
College of Business (Nanyang Business School)							
28	Nanyang Business School (NBS)	ACCOUNTING	MB101	GER-PE (BM)/GER-UE	3	The objective of this course is to expose non-accounting and non-business students to the environment of accounting and its role in business organizations in providing information for useful decision making by various stakeholders of the firm. It is intended to develop a basic understanding of fundamental concepts and techniques in financial and managerial accounting, to enable students to appreciate the role, scope and value of information for managing the organization towards achieving its objectives, and is concerned with both internal and external reporting. Students are treated to an understanding of a broad range of the underlying accounting concepts without the need to be involved in too much detail associated with the processes. Whilst non-accounting and non-business students need not have to prepare financial statements, it would be beneficial for them to be able to understand, interpret, analyse and use them. Topics covered include the role of accounting in business; the accounting cycle; understanding, interpretation and analysis of financial statements; and the application of accounting tools for strategic planning and control in a business organization.	Offered in Special Terms 1 and 2. Not offered to Accountancy, Business and Business & Computing students.
29		BUSINESS FINANCE	MB102	GER-PE (BM)/GER-UE	3	The objective of this subject is to provide students with a broad understanding of all the important financial principles, concepts and analytical tools. This is a first course in finance and it is essential for students to have a good understanding of the various financial aspects of a corporation. Topics include the understanding and analysis of financial statements, fundamental concepts such as the time value of money and risk and return, corporate financing choices and investment analysis, management of working capital, and financial risk management. Students need to have a good grounding in this subject in order to better prepare them for other advanced subjects in finance such as MB218 International Financial Management.	Offered in Special Terms 1 and 2. Not offered to Accountancy, Business and Business & Computing students.
30		PRINCIPLES OF MARKETING	MB103	GER-PE (BM)/GER-UE	3	A good understanding of marketing by itself and in relation to other disciplines is critical for anyone interested in business. This subject aims to provide students with a firm understanding of the basic principles and practice of marketing. It lays the foundation for a better understanding of how successful and sustainable business enterprises can be developed. To enable participants to develop strong analytical skills and to apply the theories and concepts of marketing, a multi-media pedagogical approach will be adopted. In addition to a global perspective, real-life marketing cases and examples will also be drawn from the Asian and local environment.	Offered in Special Terms 1 and 2. Not offered to Accountancy, Business and Business & Computing students.
31		FUNDAMENTALS OF BUSINESS LAW	MB107	GER-PE (BM)/GER-UE	3	The aim of this course is to provide a good understanding of the main principles of law affecting business. As an introductory course, it will focus on the key principles and issues. The course is divided into six parts. The first part introduces basic concepts and definitions relating to the law and the judicial system in Singapore. We then move on to study principles in contract law, viewed at and explained from a business perspective. Part three highlights the essential aspects of tort law focusing on the tort of negligence. Parts four and five look at organisational forms and the basic aspects of intellectual property protection respectively. The final part introduces elements of dispute management and resolution.	Offered in Special Terms 1 and 2. Not offered to Accountancy, Business and Business & Computing students.