PERM 3110 Research Methods (3,3,0)
Prerequisite: PERM 1160 Tests and Measurement
This course is designed as an introduction to basic research methods that are applicable to physical education and recreation. Knowledge acquired in this course will assist students in (1) understanding the nature of the research process and the differentiation of various types of researches; (2) developing the skills necessary for conducting physical education and recreation researches; (3) acquiring the ability and knowledge to understand physical education and recreation journal articles; (4) recognizing some key statistical concepts; and (5) selecting and applying the appropriate research method to conduct research at the undergraduate level.

PERM 3140 Recreation Programming and Event Management (3,3,0)
Prerequisite: PERM 2120 Theory and Practice in Physical Education and Recreation
This course focuses on skills and techniques in programme planning by examining elements, processes, and problem solving in planning. The objectives of the course are to (1) develop techniques and skills common in programme planning; (2) identify existing and potential problems in planning; (3) propose alternatives in solving problems in planning; and (4) provide opportunities for students to implement the plan.

PERM 3590 Honours Project (3,*,*)
Prerequisite: Year III Physical Education and Recreation Management majors
A required project for all BA (Hons) in Physical Education and Recreation Management students. Students will pursue in-depth research on a specific topic of interest to the student under the guidance of appointed lecturers from the Department offering the programme. Students are to consult with their advisers regarding the necessary field study, experimentation, library or archival research required, and how best to integrate this into their Honours Project. The purpose of the project is to integrate the professional skill which has been taught in the preceding two years with specific application to a topic to produce a well-argued and documented report.

PERM 3640 Nutrition and Health (3,3,0)
Prerequisite: PERM 1120 Human Anatomy and Physiology
This course enables students to (1) learn basic knowledge of nutrition for health and fitness; (2) examine the importance of nutrition throughout the human life cycle; and (3) tackle nutritional problems and concerns facing the world today.

PERM 3650 Kinesiology (3,3,0)
Prerequisite: PERM 1120 Human Anatomy and Physiology
This course is to (1) provide the students with the basic biomechanical information necessary for adequate assessment, description, and analysis of human movement and exercise; (2) provide practical laboratory experience to assess fundamental mechanical concepts; and (3) emphasize the application of these principles in physical and recreational activities.

PERM 3660 Financial and Human Resources Management in Leisure Services (3,2,1) (E)
Prerequisite: PERM 1190 Organization and Administration in Physical Education and Recreation
This course enables students to (1) understand the fundamental concepts on how financial and human resources are managed and utilized effectively in an organization; and (2) obtain experience in the practical aspects of problem-solving and decision making techniques used to manage the financial functions and human resources in leisure services.

PERM 3670 Fitness and Recreation for Selected Population (3,3,0) (E)
This course enables students to (1) evaluate and identify the health fitness and recreation programmes needs of selected populations; (2) prescribe exercise and/or life-style inventory programmes according to their needs; (3) be able to explain the available benefits of such exercise and/or life-style inventory programmes; and (4) provide opportunities for students to plan and implement the activity programme for the special population.

PERM 3710 Public and Community Recreation (3,3,0)
Prerequisite: PERM 2120 Theory and Practice in Physical Education and Recreation
This course aims to (1) enhance students' understanding of how different leisure service providers operate to meet the diverse needs and demands of individuals, families, and societies; (2) help students to appraise the professional recreation management practice and the fundamental forms of the activities promoted and developed as public and community recreation; (3) introduce to students different approaches in the management of recreation; (4) provide students with a greater awareness of the ways in which community sports may differ from traditional sport; and (5) devleop students' understanding of the roles of recreation and leisure in our society.

PERM 3720 Marketing in Leisure Services (3,2,1)
Prerequisite: PERM 1190 Organization and Administration in Physical Education and Recreation
This course focuses on the importance of marketing in leisure services. The techniques and applications are also included in the course so as to enable the students to understand the concepts through implementation as a whole. The objectives of the course are to (1) understand the differences between service and physical product; (2) identify the role of marketing in leisure sport services; and (3) provide application of marketing knowledge in leisure sport.

PERM 3740 Facility Management (3,3,0) (E)
Prerequisite: PERM 1190 Organization and Administration in Physical Education and Recreation
This course covers structures and space necessities for planning facilities. It provides guidelines, principles, construction, use and maintenance of outdoor and indoor facilities. The objectives of the course are to (1) provide basic steps of the facilities planning process; (2) understand the objectives and needs affecting the planning process; (3) become familiar with the problems, forces and issues shaping facilities; (4) become aware of the legal concepts in facility construction; and (5) become familiar with landscape design, construction and turf management.

PERM 3750 Outdoor Recreation (3,3,0)
Prerequisite: PERM 1290 Outdoor Pursuits
This course enables students to (1) comprehend the fundamentals of outdoor recreation; (2) understand the nature and outdoor resources for recreation; and (3) acquire essential skills to be leaders in outdoor recreational activities.

PERM 4005 Facility Management (3,3,0) (E)
The course covers the fundamental knowledge of planning and management of sports facilities. It teaches students the resources management, design and building requirements as well as safety and risk management required for outdoor and indoor sport facilities. Upon completion of the course, students should be able to (1) understand the structures and space necessities for planning facilities; (2) learn the basic steps of planning process and understand the objectives and needs affecting sports facility planning; and (3) understand all the major issues involved in planning, funding, tendering, design, building and management of sports facilities.

PERM 4006 Financial and Human Resources Management in Leisure Services (3,2,1) (E)
Prerequisite: PERM 2006 Organization and Administration in Physical Education and Recreation
This course provides students with the fundamental concepts and skills related to the management of financial and human resources. It also gives them opportunities to apply such knowledge and skills to solve management issues in mock sport

and leisure settings.
This course enables students to understand the fundamental concepts on how financial and human resources are managed and utilized effectively in an organization; to enable students to obtain experience in the practical aspects of problem-solving and decision making techniques used to manage financial and human resources in leisure services.

PERM 4007 Leadership and Communication in Sport and Recreation (3,3,0) (E)
This course introduces students to recreation leadership concepts and theories. It also provides students with an understanding of communication theories and processes related to public and interpersonal communication. The course offers students opportunities to practice their leadership and communication skills in sport and recreation settings.
This course enables students to acquire an understanding of the basic leadership theories, models and approaches; to be familiar with the processes of activity leadership; to be able to apply leadership skills and strategies learned in the course in leading sport and recreation activities; to develop an understanding of conflict negotiation and decision-making skills; to understand concepts, models and theories of public and interpersonal communication; to be able to apply public and interpersonal communication concepts and theories to analyse their own, interpersonal, and group behaviors; to enhance their team building and leadership skills; to improve their written and oral communication skills relevant to sport and recreation.

PERM 4015 Marketing in Leisure Services (3,2,1)
Prerequisite: PERM 2006 Organization and Administration in Physical Education and Recreation
The course covers the fundamental marketing knowledge of sport and recreation and its applications in the Western and Chinese sport industry. Upon completion of the course, students should be able to (1) understand the differences between services and physical product; (2) identify the role of marketing in leisure and sport services; and (3) apply the marketing knowledge in leisure and sport services.

PERM 4016 Outdoor Recreation (3,3,0) (E)
Prerequisite: PERM 1317 Outdoor Pursuits
This course is to introduce fundamental knowledge and issues in outdoor recreation as well as in leading recreation activities. Upon completion of the course, students should be able to (1) comprehend the fundamentals of outdoor recreation; (2) understand the nature and outdoor resources for recreation; and (3) acquire essential skills to be leaders in outdoor recreational activities.

PERM 4017 Principles and Practice of Exercise and Weight Management (3,3,0)
This course introduces students to the scientific principles underlying the design of weight management programmes. It also provides students with an understanding of the obesity issues. It enables students to: (1) understand the health risks and the etiology of obesity; (2) introduce exercise prescription and intervention to combat obesity; and (3) understand the issue of obesity and weight control in physiological, sociological, and psychological context.

PERM 4895 Honours Project (3,*,*)
Prerequisite: PERM 3006 Research Methods
This course is a required project for all BA (Hons) in Physical Education and Recreation Management students. Students will pursue in-depth research on a specific topic of interest to the student under the guidance of appointed lecturers from the Department offering the course. Students are to consult with their advisers regarding the necessary field study, experimentation, library or archival research required, and how best to integrate this into their Honours Project.
This course enables students to initiate, conduct and write-up a research project in the physical education and reaction management field; to integrate the professional skills which have been taught in the preceding two years with specific application to a topic to produce a well-argued and documented report.

PHYS 1005 Introduction to Physics and Energy Science (3,3,0) (E)
This course introduces some basic concepts of physics with emphasis on real-life examples, in particular applications in energy science. It explores the fundamental physical principles in the workings of everyday objects and natural phenomena, everyday objects and the processes of energy conversion and usage.

PHYS 2005 Heat and Motion (3,3,0) (E)
Prerequisite: PHYS 1005 Introduction to Physics and MATH 1005 Calculus or consent of instructor
This course covers classical mechanics and thermodynamics pertaining to energy science applications. The concepts and theory of Newtonian mechanics will be introduced followed by applications to rigid body motions, wave propagation, and fluid dynamics. After presenting the laws of thermodynamics, the energy flow and energy conversion mechanisms in various thermodynamic processes will be examined.

PHYS 2006 Electricity and Magnetism (3,3,0) (E)
Prerequisite: PHYS 1005 Introduction to Physics and MATH 1005 Calculus or consent of instructor
This course introduces the basic concepts of electricity and magnetism as applied to energy technology fields. Topics include electrostatics, circuits, induction, motors, generators, alternating currents, transformers, electromagnetic waves and optics.

PHYS 2007 Mathematical Methods for Physical Sciences (4,4,0) (E)
Prerequisite: MATH 1005 Calculus or consent of instructor
This course provides students with the necessary mathematical knowledge in preparation for studying further courses in physical sciences. It illustrates the use of mathematics in physical sciences context so that students can apply their math skills in a practical situation.

PHYS 2008 Green Energy Laboratory I (1,1,0)
Co-requisite: PHYS 2005 Heat and Motion or consent of instructor
By way of lectures and a series of experiments related to principles and application of energy science, this practical course introduces Year 2 students to the basic concepts and methodologies behind experimentation and energy science.

PHYS 2009 Green Energy Laboratory II (1,1,0)
Prerequisite: PHYS 2005 Heat and Motion or consent of instructor
Co-requisite: PHYS 2006 Electricity and Magnetism or consent of instructor
By way of a series of Green Energy experiments, this practical course introduces Year II students to the basic concepts and methodologies behind Green Energy.

PHYS 2115 Electronics (3,3,0) (E)
Prerequisite: PHYS 1005 Introduction to Physics or consent of instructor
This course provides students with basic concepts of electronic circuits. Foundation concepts in both dc and ac circuit analysis will be introduced. Next, the behaviours and applications of solid state electronic devices, including diodes and transistors will be examined. The last part covers power electronics and techniques to control the flow of electrical energy between the source and the load. This course builds a foundation upon which further work in electronics and instrumentation are based. The course includes a lab-based tutorial component which gives students hand-on experience.