

SRL 2140 Scientific Principles of Human Movement (3,3,0) (E)

Prerequisite: CS 2206 Scientific Foundations to Human Movement or equivalent

This course provides an advanced understanding of the scientific principles underlying human movement and exceptional performances. Areas such as the essential human systems involved in producing movement and physiological responses to exercise, particularly in the elderly, persons with physical disabilities, persons with intellectual disabilities, persons with degenerative neurological conditions, and persons with special health problems would be examined.

SRL 2150 Recreation Leadership (3,3,0) (E)

Prerequisite: CS 2196 Introduction to Leisure, Sport and Recreation or equivalent

This course examines current leadership theories and their applications to being leaders in sport and recreation settings. Essential qualities and skills expected of sport and recreation leaders will be discussed, explored, and applied to provision of sport and recreation to persons with special needs and to the mainstream population.

SRL 2160 Recreation Programming and Programme Evaluation (3,3,0) (E)

Prerequisite: CS 2196 Introduction to Leisure, Sport and Recreation or equivalent

This course aims to equip students with knowledge related to the planning, implementation and evaluation of recreation programmes. Recreation programming concerns, including the legal and political aspects of programme provision, for persons with special needs and the mainstream population will be addressed.

SRL 2170 Communication for Sport and Recreation Leaders (3,3,0) (E)

This course aims to provide students with a general background of current communication theories related to public communication and interpersonal communication. A focus will be placed on the use of written communication skills (writing speeches, grant proposals, newsletters columns, and press release) within sport and recreation settings.

SRL 2180 Internship I (2,0,2) (C)

This course requires students to work for an accumulation of at least 200 hours during their second year of study on a part-time basis under the supervision of a faculty supervisor and the agency supervisor(s). They will be expected to observe the agency at work and assist in planning and leading activities. A diversity of experiences (working with mainstream population and with persons with special needs) is preferred.

SRL 2620 Planning and Leading Inclusive Games and Activities (2,1,1) (tbc)

This course aims to provide students with knowledge related to designing, planning, and leading a variety of games and activities for persons with special needs. Students will be provided with opportunities to apply knowledge to practical situations.

SRL 2630 Prevention and Care of Sport Injuries (3,3,0) (E)

Prerequisite: CS 2206 Scientific Foundations to Human Movement or equivalent

This course aims to help students understand the basic etiology and mechanisms of sport injury, the indications and contraindications of treatments related to specific injury trauma. Concerns related to the prevention and care of common injuries among persons with special needs will also be addressed. Students will also be provided with opportunities to demonstrate skills of proper handling of acute sport injuries.

SRL 2640 Planning and Leading Rhythmic Activities (3,2,1) (C)

This course aims to provide students with the basic knowledge related to designing, planning, and leading a variety of rhythmic activities for persons with special needs. Students will be provided with opportunities to apply knowledge to practical situations.

SRL 3110 Leisure Education (3,3,0) (E)

This course aims to provide students with an overview of leisure education including its philosophy and implementation strategies. Students will be provided with an opportunity to explore and discuss approaches and strategies that can be utilized to provide leisure education programmes in school and community settings while taking into account cultural diversities, attitudes towards persons with special needs, and the psychodynamics of marginalized populations.

SRL 3120 Outdoor Recreation and Adventure Education Programming (3,3,0) (E)

This course aims to provide students with an understanding of the nature of outdoor recreation and adventure education and to acquire the essential knowledge and skills to plan and lead outdoor recreation and adventure education programmes for persons with special needs and for the mainstream population.

SRL 3130 Marketing in Sport and Recreation (3,3,0) (E)

This course aims to provide students with the basic knowledge of marketing theories and an understanding of the differences between service and merchandise marketing. The role and strategies of marketing in sport and recreation will also be discussed.

SRL 3140 Design and Management of Sport and Recreation Facilities (3,3,0) (E)

This course aims to provide students with an overview of different types of sport and recreation facilities and the management of such facilities. Special attention would be directed towards the understanding of accessibility as applied to facility designs.

SRL 3150 Financial and Human Resources Management in Sport and Recreation (3,3,0) (E)

This course equips students with basic knowledge of management theories, concepts and skills with a focus on financial management and human resources management. The practical applications of these theories, concepts and skills to recreation settings will be provided.

SRL 3160 Sport and Recreation for Persons with Physical and Intellectual Disabilities (3,3,0) (E)

This course provides students with knowledge on the opportunities for sport and recreation for persons with physical and intellectual disabilities. Focus will be place on the international and local organizations responsible for providing sport and recreation programmes for these populations. Current issues such as equal opportunity, attitudes, and legal and politics related to competitive sport for persons with physical and intellectual disabilities will also be explored.

SRL 3170 Health Fitness Assessment and Exercise Prescription (3,2,1) (E)

Prerequisite: CS 2216 Tests and Measurement in Sport and Recreation or equivalent

This course aims to provide students with a thorough understanding of health fitness assessment and exercise prescription. Students will be have hands-on experiences in making assessments in laboratory and field settings on persons with special needs and acquire ability to interpret results and prescribe appropriate health fitness programmes.

SRL 3180 Internship II (3,0,3) (C)

Prerequisite: SRL 2180 Internship I

This course requires students to work for at least 300 hours under the supervision of a faculty supervisor and the agency supervisor.

Students will be expected to observe the agency at work and to assist the agency in planning and leading activities. A diversity of experiences (working with mainstream population and with persons with special needs) is preferred.

SRL 3620 Leisure Counselling (3,3,0) (E)

This course aims to provide students with an opportunity to understand the individual and social dynamics influencing leisure choices. Students will acquire basic counselling and educational intervention techniques to help clients with diverse socio-cultural backgrounds, interest and physical/intellectual abilities to identify and overcome constraints to pursue leisure activities.

SRL 3630 Research Methods (3,3,0) (E)

This course aims to provide students with knowledge of the process of conducting research. Students will develop skills in reading and understanding current research reports, writing up research proposals, and completing an independent piece of small scale research. They will also acquire skills in qualitative and quantitative data entry, use of appropriate software to analyse data and make interpretations.

SRL 3640 Independent Project (3,0,3) (E/P/C)

Prerequisite: SRL 3630 Research Methods

The purpose of the Independent Project is to allow students to apply knowledge accumulated from the programme to pursue a small-scale research on a specific topic of their interest under the guidance of an appointed faculty member.

SRL 3650 Sports for Persons with Special Needs (3,1,2) (C)

This course aims to provide students with knowledge to demonstrate, organize and teach/coach a variety of alternate sports—such as floor hockey, floorball, goalball, boccia and gatel— for persons with special needs.

SRL 3660 Planning and Leading Water Activities (3,2,1) (E)

Prerequisite: RCS 0215 Physical Education (Swimming) or equivalent

This course aims to provide students with knowledge related to designing, planning and leading a variety of water (pool) activities for persons with special needs. Students will be provided with opportunities to apply knowledge to practical situations.

STAT 1131 Statistical Methods and Theory I (3,3,1) (E)

Prerequisite: A-Level Pure Mathematics, A-Level/AS-Level Applied Mathematics or AS-Level Mathematics and Statistics

This course deals with the statistical methods and theory. The emphasis is on what, how, when and why certain statistical methods can and cannot be applied. Topics include exploratory data analysis, estimation, hypothesis testing, analysis of variance, simple linear regression and nonparametric methods. Students are required to solve a variety of problems by using calculators and statistical packages such as SAS, MINITAB, SPSS, S-PLUS or R.

STAT 1132 Statistical Methods and Theory II (3,3,1) (E)

Prerequisite: STAT 1131 Statistical Methods and Theory I

This course deals with the elementary probability theory and the mathematical foundation of some commonly used statistical methods. First the rigorous mathematical frame of the probability theory based upon the concepts of random variables and probability distributions are introduced. The general procedures of statistical inference, such as parameter estimation, hypothesis test, analysis of variance are demonstrated with detailed discussion about their mathematical features. Students are required to comprehend the most commonly used probability distributions and their relations. Central Limit Theorem and related statistical application should be well understood. Several

optimal schemes for the estimation accuracy and the hypothesis test power form another important part of the course.

STAT 1210 Probability and Statistics for Computer Science (3,3,1) (E)

Antirequisite: STAT 1620 Computer-aided Statistics

Prerequisite: MATH 1000 Supplementary Mathematics (Calculus and Linear Algebra) or Grade D or above in AL Pure Mathematics

This course aims to provide an understanding of the basic concepts in probability and statistical analysis, and focuses on applied probability and statistics. Students will learn the fundamental concepts of random variables, the basic concepts and techniques of parameter estimation and hypothesis testing. After taking this course, students will be able to apply the concepts to real-life IT/engineering applications and use popular statistics packages, such as SAS, SPSS, S-Plus, R or MATLAB, to perform simple and sophisticated analysis.

STAT 1620 Computer-aided Statistics (3,3,0) (E)

Antirequisite: BUS 1200 Statistics for Business, STAT 1210 Probability and Statistics or STAT 1131 Statistical Methods and Theory I

This course deals with the statistical analysis using commercial grade computer software. It provides statistical concepts and methods so that the students learn how to make correct statistical inference by using appropriate methods. This course is NOT for students whose programmes are offered by the Department of Mathematics.

STAT 1650 Statistics and Our Society (3,3,0) (E)

Prerequisite: HKCEE Mathematics

Issues of data and chance permeate everyday life in the news, advertisements, medical and business communications. This course focuses on developing the statistical thinking needed to gain insight from this information in order to make informed decisions. This course will take a conceptual, rather than a computational approach to learning statistics.

STAT 2110 Regression Analysis (3,3,0) (E)

Prerequisite: STAT 1131-2 Statistical Methods and Theory I & II and MATH 1120 Linear Algebra

This course aims to provide an understanding of the classical and modern regression analysis and techniques which are widely adopted in various areas such as business, finance, biology and medicine. There have been great developments in the past decades such as nonlinear regression, robust regression, nonparametric regression etc. With the help of a statistical package such as SAS, Matlab or R, students can analyse multivariate data by modern regression techniques without any difficulty.

STAT 2120 Categorical Data Analysis (3,3,0) (E)

Prerequisite: STAT 1620 Computer-aided Statistics or STAT 2110 Regression Analysis

To equip students with statistical methods for analysing categorical data arisen from qualitative response variables which cannot be handled by methods dealing with quantitative response, such as regression and ANOVA. Some computing software, such as SAS, S-PLUS, R or MATLAB, will be used to implement the methods.

STAT 2710 Design and Analysis of Surveys (3,3,0) (E)

Prerequisite: STAT 1131 Statistical Methods and Theory I or STAT 1620 Computer-aided Statistics

To provide students with a good understanding of survey operations, survey sampling methods and the corresponding analyses of data. Important points in questionnaire design will also be addressed in the course. Students will form teams to do course projects. On completion of the course, students should be able to design, carry out, and write reports based on a professional survey.