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 (3,1,2) (C)
Needs
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 gatebal—for persons with special needs.

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