REGULATIONS FOR THE DEGREE OF BACHELOR OF ARTS AND SCIENCES IN SOCIAL DATA SCIENCE (BASc[SDS])

These regulations apply to students admitted to the Bachelor of Arts and Sciences in Social Data Science (BASc[SDS]) curriculum in the academic year 2020-21.

See also General Regulations and Regulations for First Degree Curricula.

The degree of Bachelor of Arts and Sciences in Social Data Science (BASc[SDS]) is awarded for the satisfactory completion, on a full-time basis, of a prescribed programme of study in Social Data Science.

Ed430 Admission to the degree

To be eligible for admission to the degree of Bachelor of Arts and Sciences in Social Data Science, candidates shall

- (a) comply with the General Regulations;
- (b) comply with the Regulations for First Degree Curricula;
- (c) hold an Associate Degree or a Higher Diploma; or other qualifications of equivalent standard accepted for this purpose; and
- (d) satisfy all the requirements of the curriculum in accordance with these regulations and the syllabuses.

Ed431 Period of study

The curriculum for the degree of Bachelor of Arts and Sciences in Social Data Science shall normally require four semesters of full-time study and a summer semester, extending over not fewer than two academic years, and shall include any assessment to be held during and/or at the end of each semester. Candidates shall not in any case be permitted to extend their studies beyond the maximum period of registration of three academic years, unless otherwise permitted or required by the Board of the Faculty.

Ed432 Selection of courses

- (a) Candidates shall select their courses in accordance with these regulations and the guidelines specified in the syllabuses before the beginning of each semester. Changes to the selection of courses may be made only during the add/drop period of the semester in which the course begins, and such changes shall not be recorded on the transcript of the candidate. Requests for changes after the designated add/drop period of the semester shall not normally be considered.
- (b) Withdrawal from courses beyond the designated add/drop period will not be permitted, except for medical reasons approved by the Board of the Faculty.

Ed433 Curriculum requirements

- (a) To complete the curriculum, candidates shall follow instruction in the syllabuses prescribed and
 (i) satisfy the requirements prescribed in UG5 of the Regulations for First Degree Curricula¹;
 - and(ii) complete successfully not fewer than 120 credits, in the manner specified in these regulations and syllabuses, comprising:

¹ Under Ed434(b), candidates will be granted advanced standing of 120 credits, including 24 credits of courses in the Common Core Curriculum, 6 credits in Core University English and 6 credits in Chinese language enhancement courses to fulfill part of the UG5 requirements for graduation.

- 72 credits in the Major in Social Data Science (including 12 credits of capstone experience),
- 6 credits in English in the Discipline course,
- 12 credits of courses in the Common Core Curriculum, including not more than one course from the same Area of Inquiry, and
- 30 credits in free elective courses.
- (b) Candidates shall normally be required to take not fewer than 24 credits nor more than 30 credits in any one semester (except the summer semester) unless otherwise permitted or required by the Board of the Faculty, or except in the last semester of study when the number of outstanding credits required to complete the curriculum requirements may be fewer than 24 credits.
- (c) Candidates may, of their own volition, take additional credits not exceeding 6 credits in each semester, and/or further credits during the summer semester, accumulating up to a maximum of 72 credits in one academic year. With the special permission of the Board of the Faculty, candidates may exceed the annual study load of 72 credits in a given academic year provided that the total number of credits taken does not exceed the maximum curriculum study load of 144 credits for the normative period of study specified in the curriculum regulations, save as provided for under Ed433(d).
- (d) Where candidates are required to make up for failed credits, the Board of the Faculty may give permission for candidates to exceed the annual study load of 72 credits provided that the total number of credits taken does not exceed the maximum curriculum study load of 216 credits for the maximum period of registration specified in the curriculum regulations.

Ed434 Advanced standing and credit transfer

- (a) Advanced standing may be granted to candidates in recognition of studies completed successfully in an approved institution of higher education before admission to the curriculum in accordance with UG2 of the Regulations for First Degree Curricula. Credits granted for advanced standing shall not be included in the calculation of the GPA but will be recorded on the transcript of the candidate.
- (b) In recognition of candidates' fulfillment of requirement stipulated in Ed430(c), they will be granted advanced standing of 120 credits, including 24 credits of courses in the Common Core Curriculum, 6 credits in Core University English and 6 credits in Chinese language enhancement courses.
- (c) Candidates may, with the approval of the Board of the Faculty, transfer credits for courses completed at other institutions at any time during their candidature. The number of transferred credits will be recorded on the transcript of the candidate, but the results of courses completed at other institutions shall not be included in the calculation of the GPA. The number of credits to be transferred shall not exceed half of the total credits normally required under the degree curricula of the candidates during their candidature at the University.

Ed435 Assessment and grades

- (a) Candidates shall be assessed for each of the courses for which they have registered, and assessment may be conducted in any combination of coursework, written examinations and/or any other assessable activities. Only passed courses will earn credits. Grades shall be awarded in accordance with UG8 of the Regulations for First Degree Curricula.
- (b) Courses in which candidates are given an F grade shall be recorded on the transcript of the candidate, together with the new grade if the candidate is re-examined as a second attempt or retakes the failed course. All failed grades shall be included in calculating the GPA and shall be taken into account for the purposes of determining eligibility for award of the BASc(SDS) degree, honours classification and whether a candidate shall be recommended for discontinuation of studies.
- (c) Candidates shall not be permitted to repeat a course for which they have received a D grade or above for the purpose of upgrading.
- (d) There shall be no appeal against the results of examinations and all other forms of assessment.

Ed436 Absence from examination

Candidates who are unable, because of illness or other acceptable reason, to be present at the written examinations of any course may apply for permission to present themselves at a supplementary examination of the same course to be held before the beginning of the First Semester of the following academic year. Any such application shall be made within two weeks of the first day of the candidate's absence from any examination. Any supplementary examination shall be part of that academic year's examinations, and the provisions made in these regulations for failure at the first attempt shall apply accordingly.

Ed437 Retaking / Re-examination of failed course(s)

- (a) Candidates who have failed to satisfy the examiners in course(s), but have
 - completed successfully 36 or more credits in two consecutive semesters (not including the summer semester), except where candidates are not required to take such a number of credits in the two given semesters; and
 - achieved an average semester GPA of 1.0 or higher for two consecutive semesters (not including the summer semester),

shall be required, as specified by the relevant Board of Examiners:

- (i) to undergo re-assessment(s)/re-examination(s) in the failed course(s) to be held no later than the end of the following semester (not including the summer semester); or
- (ii) to re-submit failed coursework, without having to repeat the same course of instruction; or
- (iii) to repeat the failed course(s) by undergoing instruction and satisfying the assessments; or
- (iv) for elective course(s), to take another course *in lieu* and to satisfy the assessment requirements.
- (b) Candidates shall not be permitted to retake a failed course or present themselves for reexamination as a second attempt if they have otherwise satisfied all the requirements stipulated in these regulations for the award of the BASc(SDS) degree.

Ed438 Failure in re-examination

- (a) Candidates who have failed to satisfy the examiners at re-assessment(s)/re-examination(s), granted under Regulation Ed437, of course(s) in the Social Data Science Major shall:
 - (i) if these courses total *not more* than 12 credits, normally be permitted to progress to the following year of study and to present themselves for re-examination, in any prescribed form of examination; or
 - (ii) if these courses total *more* than 12 credits, be recommended for discontinuation of their studies as stipulated under Regulation Ed439(d).
- (b) Candidates who have failed to satisfy the examiners at a supplementary examination, granted under Regulation Ed436, shall be permitted to present themselves for re-assessment in accordance with Regulation Ed437, as directed by the Board of Examiners.

Ed439 Discontinuation

Unless otherwise permitted by the Board of the Faculty, candidates shall be recommended for discontinuation of their studies if they have

- (a) failed to complete successfully 36 or more credits in two consecutive semesters (not including the summer semester), except where candidates are not required to take such a number of credits in the two given semesters; or
- (b) failed to achieve an average semester GPA of 1.0 or higher for two consecutive semesters (not including the summer semester); or
- (c) failed in the Capstone Requirement; or

- (d) failed to satisfy the examiners at re-assessment(s)/re-examination(s) of course(s) in the Social Data Science Major, granted under Regulation Ed437, of more than 12 credits; or
- (e) exceeded the maximum period of registration specified in Regulation Ed431.

Ed440 Award of degree and honours classifications

- (a) To be eligible for the award of the degree of Bachelor of Arts and Sciences in Social Data Science, candidates shall have successfully completed the curriculum as stipulated under Regulation Ed433.
- (b) Honours classifications for the degree of Bachelor of Arts and Sciences in Social Data Science shall be awarded in five divisions: First Class Honours, Second Class Honours Division One, Second Class Honours Division Two, Third Class Honours, and Pass. The classification of honours shall be determined by the Board of Examiners for the degree in accordance with the following Graduation GPA scores (GGPA) stipulated in UG9(a) of Regulations for First Degree Curricula, with all courses taken (including failed courses, but not including courses approved by the Senate graded as 'Pass', 'Fail' or 'Distinction') carrying weightings which are proportionate to their credit values:

<u>Class of honours</u>	<u>GGPA range</u>
First Class Honours	3.60 - 4.30
Second Class Honours	(2.40 - 3.59)
Division One	3.00 - 3.59
Division Two	2.40 - 2.99
Third Class Honours	1.70 - 2.39
Pass	1.00 - 1.69

- (c) Honours classification may not be determined solely on the basis of a candidate's Graduation GPA and the Board of Examiners for the degree may, at its absolute discretion and with justification, award a higher class of honours to a candidate deemed to have demonstrated meritorious academic achievement but whose Graduation GPA falls below the range stipulated above of the higher classification by not more than 0.1 Grade Point.
- (d) A list of candidates who have successfully completed the degree requirements shall be posted on Faculty notice boards.

SYLLABUSES FOR THE DEGREE OF BACHELOR OF ARTS AND SCIENCES IN SOCIAL DATA SCIENCE (BASc[SDS])

(This programme will not be offered to non-BASc(SDS) students as a second major.)

Candidates are required to complete courses totaling not fewer than 120 credits for the Bachelor of Arts and Sciences in Social Data Science degree. These courses must comprise:

- 72 credits in the Major in Social Data Science (including 24 credits of introductory courses; 36 credits of advanced courses; 12 credits of capstone experience);
- 6 credits in English in the Discipline course;
- 12 credits of courses in the Common Core Curriculum in different Areas of Inquiry; and
- 30 credits in free elective courses.

FIRST YEAR OF THE CURRICULUM

Candidates shall normally take 60 credits, comprising:

- 36 credits in the Major in Social Data Science;
- a 6-credit course in the Common Core Curriculum;
- a 6-credit English in the Discipline course; and
- 12 credits in free elective courses or Advanced Elective Courses.

SECOND YEAR OF THE CURRICULUM

Candidates shall normally take 60 credits, comprising:

- 36 credits in the Major in Social Data Science;
- a 6-credit course in the Common Core Curriculum; and
- 18 credits in free elective courses.

MAJOR IN SOCIAL DATA SCIENCE (72 credits)

Candidates are required to complete 72 credits in the Major in Social Data Science (including 24 credits of introductory courses; 36 credits of advanced courses; 12 credits of capstone experience) as follows:

Introductory Courses (24 credits)

BSDS3001 Social data science foundations (6 credits) BSDS3002 Social computing: methods and applications (6 credits) BSDS3003 Data structure and algorithm (6 credits) STAT3622 Data visualization (6 credits)

Advanced Compulsory Courses (18 credits)

BSIM4018 Data warehousing and data mining (6 credits) SOWK3136 Application of big data analytics in social sciences (6 credits) STAT2604 Introduction to R programming and elementary data analysis (6 credits)

Advanced Elective Courses (18 credits)

Candidates are required to complete one course from each of the following three disciplines.

I. Faculty of Education BSIM4020 Information society issues and policy (6 credits) BSIM4024 Fundamentals of object-oriented programming (6 credits) MLIM6319 Information behavior (6 credits) MLIM7350 Data curation (6 credits)

II. Faculty of Social Sciences
GEOG2152 Health and medical geography (6 credits)
GEOG3417 Health, wellbeing, place and GIS (6 credits)
POLI3128 The political economy of international development (6 credits)
POLI3131 In search of good policy: an introduction to policy evaluation (6 credits)
PSYC2071 Judgements and decision making (6 credits)
SOCI2080 Media and culture in modern societies (6 credits)
SOWK2131 Behavioural economics for social change (6 credits)

III. Faculty of Science
STAT2605 Demographic and socio-economic statistics (6 credits)
STAT3612 Statistical machine learning (6 credits)
STAT3613 Marketing analytics (6 credits)
STAT4609 Big data analytics (6 credits)

Capstone Experience (12 credits)

BSDS3999 Internship (6 credits) BSDS4999 Project (6 credits)

Note: Not all elective courses will necessarily be offered every year. For candidates who have no programming background, it is highly recommended to take at least one programming-related course to strengthen the background knowledge for the major study.

Introductory Courses (24 credits)

Candidates are required to complete 24 credits of Introductory Courses for the major requirement.

BSDS3001 Social data science foundations (6 credits)

This course introduces foundations of social data science and provides an overview of the current issues that are challenging to the field. Students will explore how large-scale social data can be studied and analysed in order to take an interdisciplinary approach integrating the relevant disciplines to address social issues or challenges. Methods of inquiry and research in social data science will be discussed to prepare students in developing tools, techniques, and interdisciplinary solutions to social and policy issues.

Assessment: 100% coursework.

BSDS3002 Social computing: methods and applications (6 credits)

Social computing employs computational approaches and social analytics to study social behaviour in a broader context. This course is aimed to develop an understanding of social computing from an interdisciplinary perspective. Concepts and theories related to social computing applications are

introduced from fields such as social psychology, sociology, business, and communication. Methods of computational models and social analytics including network analysis and collaborative filtering are covered in this course. The applications of social computing in supporting and exploring organizational and individual behaviour are discussed in depth.

Assessment: 100% coursework.

BSDS3003 Data structure and algorithm (6 credits)

This course introduces the basic concepts of data structure and algorithm essential to solving computational problems arising in social data science. It is a mix of theory and practice. Students will explore the techniques of acquiring, accessing and transforming data in different data structures, and programming/scripting (e.g. R, Python) for data analysis pipelines. Students will be able to apply algorithms to solve practical problems.

Assessment: 100% coursework.

STAT3622 Data visualization (6 credits)

This course will focus on how to work with statistical graphics, graphics that display statistical data, to communicate and analyze data. Students will learn a set of tools such as R to create these graphics and critically evaluate them.

Assessment: 100% coursework.

Advanced Compulsory Courses (18 credits)

Candidates are required to complete 18 credits of Advanced Compulsory Courses for the major requirement.

BSIM4018 Data warehousing and data mining (6 credits)

This course aims to introduce the challenges and solutions of discovering and extracting organizational information from heterogeneous sources through the use of data warehousing and data mining techniques. Topics include the motivation for and the processes of data warehousing, data warehouse architecture and design, online analytical processing, as well as concepts and techniques of data mining. Ethics and personal privacy issues in data mining are also addressed. Assessment: 100% coursework.

SOWK3136 Application of big data analytics in social sciences (6 credits)

Do Google and Facebook understand us better than we know ourselves? Are we being descended to lab rats every time we go online? Can we extract information from electronic health records to prevent diseases or even suicide? Is the impartially designed algorithm for predicting an individual's probability of recidivism truly fair for sentencing individuals who have committed crimes? When big data analytics are routinely applied to nudging our daily lives, the ability to audit the algorithms adopted by these analytics becomes crucial.

The course will focus on elaborating the core principles of a variety of techniques adopted when predicting future phenomena through the lens of big data. We will use a case study approach to provide an in-depth understanding of how predictions are made using various big data analytics. Students will be guided to develop a rich contextual understanding of consequences associated with applications of big data in different scenarios. The goal of this course is to inspire the students to think creatively and

critically about how big data analytics can be used to making scientific discoveries and doing social good. Meanwhile, they will also learn to identify potential prejudices embedded in poorly designed algorithms and be able to stand up against the abuse of big data. Assessment: 100% coursework.

STAT2604 Introduction to R programming and elementary data analysis (6 credits)

This course is designed to provide a first-level introduction to the popular and powerful statistical programming language R. This course focuses on learning the basic programming skills in R with examples and applications in elementary statistical analysis. The programming skills involved can be applied to input and output of data sets, work with different data types, manipulation and transformation of data, random sampling, descriptive data analysis, and production of professional summary reports with high-quality graphs.

Assessment: 50% coursework and 50% examination.

Advanced Elective Courses (18 credits)

Candidates are required to complete 18 credits of the Advanced Elective Courses, one course from each of the three disciplines as prescribed in the syllabus, for the major requirement. They may also take Advanced Elective Courses as free electives to enhance and extend their learning in the field. Not all of the courses listed below will be offered every year.

BSIM4020 Information society issues and policy (6 credits)

The course examines the link between information society issues and the need for information policies that address these issues. Issues including intellectual property rights and copyright, privacy and freedom of access to information, information and culture, technology and culture, and societal needs and demands for information are explored. Information policies and the policy development process are addressed at macro and micro levels. At the completion of this course, participants will be able to identify the need for information policies, critique existing information policies, and develop information policies at the organizational level.

Assessment: 100% coursework.

BSIM4024 Fundamentals of object-oriented programming (6 credits)

This course aims to equip students with basic concepts of object-oriented programming and practical knowledge for designing and implementing simple software applications through an object-oriented programming language. In addition to basic programming constructs such as control statements, basic data structures and algorithms are also introduced.

Assessment: 100% coursework.

GEOG2152 Health and medical geography (6 credits)

This course introduces students to the history, theories and methods of the Health and Medical Geography subfield. We will explore topics from the perspective of health equity. Topics include tools of the field, social, biologic and spatial determinants of health, urban and rural health, the health transition and chronic disease, and climate change and health. This course will incorporate discussions on current, regional events to highlight the importance of various geographic aspects to understanding the many dimensions of health.

Assessment: 40% coursework and 60% examination.

GEOG3417 Health, wellbeing, place and GIS (6 credits)

(Students are recommended to take "GEOG2090 Introduction to geographic information systems" before taking this more advanced course)

Various communicable and non-communicable diseases and related health issues emerge major social problems across the world. All aspects of the natural, built, and socioeconomic environment may affect human health and wellbeing both individually and collectively. The idea of applying GIS techniques in health-related studies is not new. Indeed, GIS has been used for decades in the western countries to undertake assessment and control of environmental factors that can potentially affect health and wellbeing. This course explores major theoretical and practical issues of public health and wellbeing across the world. It also covers how GIS is used to address and analyze pressing health problems from the geographical perspective by discussing mapping, spatial analysis, spatial modelling, and visualization. The course will be conducted in a series of lectures and hands-on practices (three computer-based exercises and one final project) in a problem-based learning environment. An examination requiring short-essay responses will be administered during the examination period. Assessment: 60% coursework and 40% examination.

MLIM6319 Information behavior (6 credits)

This course introduces the essential concepts, theories, and models of information behaviour, as well as the critical reflections on the usage of digital technologies in facilitating information behaviour in both social and organizational settings. Research methods and network analysis for studying information behaviour will also be introduced in this course. In doing so, this course aims to orient students with a comprehensive set of conceptual and theoretical knowledge associated with information behaviour. Assessment: 100% coursework.

MLIM7350 Data curation (6 credits)

This course discusses all aspects of data curation principles and best practices. The goal is to prepare students in data planning, management, documentation, preservation and sharing in all organizations with complex digital environments. This course is complementary to courses in data analysis and database management. Topics covered in this course include: overview of data management, data management life cycles; data management plans in the context of sponsored projects, risk and sustainability; standards and tools for data storage, access and security; metadata standards and design in context; data sharing and reuse; legal and ethical considerations. Assessment: 100% coursework.

POLI3128 The political economy of international development (6 credits)

This course provides an introduction to the political economy of international development. The main focus of this course is on understanding why different countries and regions have experienced such different development experiences and how today's developing countries can learn from these experiences to meet the United Nation's Sustainable Development Goals (SDGs). This course will equip students with the conceptual frameworks required to critically engage with a wide range of development issues, including: state, market and institutions, industrialization and trade, financial liberalization, intellectual property rights, poverty and inequality, and environment and development. Assessment: 60% coursework and 40% examination.

POLI3131 In search of good policy: an introduction to policy evaluation (6 credits)

This course provides an introduction to rigorous policy evaluation. The main objective of this course is to familiarize students with a wide range of quantitative methods that are increasingly used to evaluate public policy and inform policy-making. Students will begin by reflecting on the interaction between statistics, policy analysis and decision-making. This will be followed by an introduction to the fundamental concepts underlying quantitative evaluation methods. The remainder of the course will focus on understanding the theory and application of policy evaluation methodologies, including randomized experiments, instrumental variable analysis, matching methods and difference-indifferences. Additional topics to be covered include mixed methods approaches, review and synthesis approaches, choice experiments, and the impact of big data on evaluation methods. By the end of the course, students will be able to fully engage with published studies using quantitative evaluation methods and to be able to draw out appropriate policy implications. This course does not require any pre-existing experience or training in mathematics or statistics.

Assessment: 100% coursework.

PSYC2071 Judgements and decision making (6 credits)

To understand the psychological factors involved with human judgment and decision making. We will contrast human decision making with normative theories of rational choice, and survey psychological evidence of systematic decision biases and errors in judgments. We will discuss the heuristics and biases approach to judgment and decision errors, and critiques of this approach. Real world examples will be presented from the domains of medicine, economics, and consumer choice. Assessment: 100% coursework.

SOCI2080 Media and culture in modern societies (6 credits)

This course introduces key thinkers, traditions and current debates in media and cultural studies and explores the central role of media and culture in contemporary social life. It enables students to understand media and culture as institution, practice, representation, production and consumption, and creativity. Topics include: a) the rise of the mass entertainment industries and their influence on social behaviour; b) the role of consumption in maintaining and creating new social identities and status hierarchy; c) the search for fantasies in advertisement; d) new regimes of body management and their impact on gender relations; e) the reclaiming of gender, sexual and cultural identities; and f) the various emerging forms of cultural politics and local activism.

Assessment: 60% coursework and 40% examination.

SOWK2131 Behavioural economics for social change (6 credits)

This course will examine the relationship between behavioural economics and social change. Individuals frequently make decisions that systematically depart from the predictions of standard economic models based on a purely rational model. Behavioral economics attempts to integrate the understanding of the psychology of human behavior into economic and policy analysis. The course will review the major themes of behavioral economics and address the implications for social policy and social change in a wide variety of domains, including social security, health care, labour, education and social welfare programmes.

Assessment: 100% coursework.

STAT2605 Demographic and socio-economic statistics (6 credits)

The course covers the major methods for studying demographic and socio-economic statistics, with a quantitative evidence-based approach to understand the socio-economic well-being of residents in a territory. The course aims to provide students with 1) essential underlying principles and the pertinent methods behind internationally adopted statistical indicators; and 2) skills in the statistical descriptions and further analysis for application to planning, policy-making and commercial endeavours of a territory. Assessment: 35% coursework and 65% examination.

STAT3612 Statistical machine learning (6 credits)

Machine learning is the study of computer algorithms that build models of observed data in order to make predictions or decisions. Statistical machine learning emphasizes the importance of statistical theory and methodology in the algorithmic development. This course provides a comprehensive and practical coverage of essential machine learning concepts and a variety of learning algorithms under supervised and unsupervised settings. The course materials are presented with lots of examples and reproducible codes.

Assessment: 100% coursework. Prerequisite: STAT1603

STAT3613 Marketing analytics (6 credits)

This course is designed to provide an overview and practical application of trends, technology and methodology used in the marketing survey process including problem formulation, survey design, data collection and analysis, and report writing. Special emphasis will be put on statistical techniques particularly for analysing marketing data including market segmentation, market response models, consumer preference analysis and conjoint analysis. Students will analyse a variety of marketing case studies.

Assessment: 50% coursework and 50% examination. Prerequisite: Any course with prefix STAT

STAT4609 Big data analytics (6 credits)

In the past decade, huge volume of data with highly complicated structure has appeared in every aspect, such as social web logs, e-mails, video, speech recordings, photographs, tweets and others. The efficient extraction of valuable information from these data sources becomes a challenging task. This course focuses on the practical knowledge and skills of some advanced analytics and statistical modeling for solving big data problems.

Assessment: 100% coursework. Prerequisite: BSIM4018 or STAT3612

Capstone Experience (12 credits)

Candidates are required to complete 12 credits of Capstone Courses for the major requirement.

BSDS3999 Internship (6 credits) (A capstone requirement)

Students will apply what they learn from their academic studies into real-life situations by working on social data science related projects through internship experience in an organization. The course provides opportunities for the application of social data science knowledge and techniques to practical situations.

Assessment: 100% coursework.

BSDS4999 Project (6 credits) (A capstone requirement)

Students will learn basic research methods and skills in doing a project for social data science. Topics including key elements of a research project, steps of the research process, and quantitative and qualitative research methods are introduced in lectures. Students then complete a substantial final year project under supervision.

Assessment: 100% coursework.

ENGLISH IN THE DISCIPLINE COURSE (6 credits)

CAES9420 Academic English for information management and social data science students (6 credits)

This one-semester, 6-credit English course will provide the opportunity for information management students and social data science students to develop their report writing and oral presentation skills for disciplinary studies and academic purposes. Students are required to identify an issue relevant to their discipline and undertake a small-scale research project to investigate the problem issue and communicate an argument to an academic audience in writing with appropriate organizational and rhetorical skills. During the process, students need to gather data by means of an interview, perform analysis on the information they obtain, and present their findings orally and in formal report writing. The course will allow students to practice relevant English language skills for their Final Year Project/Capstone Experience courses.

Assessment: 100% continuous assessment.

COMMON CORE CURRICULUM (12 credits)

Candidates are required to complete 12 credits of courses in the Common Core Curriculum in different Areas of Inquiry.

ELECTIVE COURSE (30 credits)

Candidates are required to complete 30 credits in elective courses.