Courses offered by Singapore Management University for PhD Students Exchange Programme
For AY24-25 Term 1 (August 2024 intake) - as of 13 May 2024

Notes:
• List is subject to changes without prior notice.

School	Course Code	Course Title	Course AU	Course Description (if not available on website)	Class Timetable	Other (e.g. Pass/Fail grading)	Remarks
College of Integrative Studies	INTS703	Ways of Thinking About Asian Smart Cities	1 CU	This course foregrounds the uniquenesses of Asian cities to better understand the smart city paradigm. In doing so, it explores the role of the developmental state, of centralised planning and policy regimes, and of urban informality on the translation of smart city visions to on-the-ground urban realities. Through this exploration, the course seeks to appreciate different ways of thinking about Asian smart cities, and how they might be different from their non-Asian counterparts.	TBA	Graded	Enrolment is subject to approval by School
College of Integrative Studies	INTS704	Sustainable Urban Growth and Management	1 CU	This course provides students with an overview of the broad topic of sustainable urbanism, from a multidisciplinary perspective. It shows how cities and communities are intentionally shaped to foster prosperity, enhance liveability, and address challenges related to resource depletion and climate change. Through the lenses of urban planning, design and technology, students will delve into topics such as urban growth patterns, mobility, industrial urbanism, urban ecosystem and infrastructure etc. The course places significant emphasis on sustainable practices in regions experiencing rapidly urbanization and industrialization, with a special focus on Singapore as a model for developing and implementing sustainable strategies and integrated urban solutions. Drawing from global best practices, the course introduces high-level strategies for sustainable urban practices, incorporating the key performance indicators (KPIs) and rating systems to evaluate and measure sustainability performance.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	OBHR 726	Qualitative Research Methods	0.5 CU	The purpose of this course is to help you better understand qualitative research methods so as to enable you to be a better researcher and reviewer of work that employs these types of methodologies.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	MGMT 762	Research Seminar in Innovation and Entrepreneurship	1 CU	This course will cover two parts. The first part covers the research seminars on innovation. The discussion will focus on the individual level and organisational challenges to foster and design organisational systems to support innovative output. The second part discusses the topic of entrepreneurship and introduces students to the major theoretical threads in the field of entrepreneurship. The discussion focuses on theory building of the factors shaping the identification, evaluation, and exploitation of opportunities using foundational theoretical lenses from sociology, economics, and psychology. The main goal is to achieve a broad overview of important and interesting issues in innovation and entrepreneurship research based on the "classics" in the field.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	BSRM 700	Introduction to Business Research	1 CU	This course provides you an introduction to seminal readings on central questions of business research. The focus of the course will on the central questions in business research: the role of organizations, boundaries of organizations and the economic, social and psychological underpinnings of management research. In addition, the course touches upon logic and philosophy of conducting research in the social sciences.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	IDIS 701	Applied Econometrics for Social Science Research	1 CU	This is a university-wide Ph.D. seminar course in applied econometrics for social science research. The course aims to expose students to current and classic studies in various empirical methods across various social science disciplines: economics, finance, accounting, strategy, organizational behaviour, social science, political science, etc. The topics which will be covered in the course include linear regression models, panel data, instrumental variables, (quasi)natural experiment, difference-in-differences, regression discontinuity, matching and selection models, standard errors, etc. The class format combines lecturing and student presentation of pre-assigned papers. The lectures by the instructor will teach various econometric techniques (in an intuitive and not-so-technical way), and the paper presentations will expose students to how these techniques are used in research in various fields.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	MKTG 702	Theory Construction	0.5 CU	The purpose of this doctoral seminar is to help students understand the nature of a theory, the theory construction process, and to develop skills in building interesting and impactful new theory. The focus is on the nuts and bolts of building new theory. The seminar will discuss theory as comprised of three core components. It will bring into sharp focus general structures of arguments that may be used to support different types of theoretical propositions in social sciences. It will identify characteristics of impactful theories, map the process of constructing theories, and provide guidelines for constructing impactful theories. Students will do hands-on exercises in theory construction in course of the seminar so as to better appreciate the nature of theory construction, the difficulties involved, and ways of addressing the difficulties successfully. The seminar is foundational to students interested in developing new theories.	TBA	Graded	Enrolment is subject to approval by School
School of Computing and Information Systems	CS701	Deep Learning and Vision	1 CU	Deep Learning and Vision is focused on deep convolutional neural network (DCNN) based algorithms that automatically learn visual patterns and train recognition models from visual data (images and videos). Example applications are image classification, object detection, image generation and semantic segmentation. This course covers both the basic concepts and the practical implementations of deep learning models for computer vision tasks. First, we will cover the fundamentals in pre-processing images, such as normalization and augmentation, as well as in constructing DCNN, such as pooling, batch normalization and activation functions. Second, we will focus on the training and visualization methods of DCNN based on the most typical visual task, i.e., image classification. Last, we will cover a variety of deep learning models specifically designed for advanced visual tasks such as object detection, semantic segmentation, and image generation.	TBA	Graded	Enrolment is subject to approval by School
School of Computing and Information Systems	CS711	Learning and Planning in Intelligent Systems	1 CU	This course covers advanced topics in building these intelligent systems that make decisions or provide support to humans in making decisions. Furthermore, the topics explored are at the intersection of Artificial Intelligence, Machine Learning and Operations Research (Management Science). More specifically, we will provide real world applications and the theoretical underpinnings for the following topics: - Reasoning with Uncertainty - Reasoning with Multiple Agents (MAS)	TBA	Graded	Enrolment is subject to approval by School
School of Computing and Information Systems	CS712	Machine Learning	1 CU	This course covers the fundamental concepts and algorithms for machine learning from several perspectives. In the first half, we will cover a range of supervised learning techniques of both generative and discriminative varieties. In the second half, we will cover unsupervised learning topics (clustering, dimensionality reduction, matrix completion). The intended audience for this course are graduate students, with an objective of providing a foundation to access academic papers on machine learning algorithms and their applications.	TBA	Graded	Enrolment is subject to approval by School
School of Accountancy	ACCT 702	Introduction to Accounting Research	1 CU	This is a 1.0 credit unit (CU) course designed to introduce you to the basic topics in accounting research, with a particular emphasis on the role of accounting information in capital markets. The objective of this course is to not only provide an overview of this important stream of accounting research, but also to develop your basic understanding of common research designs used in accounting studies and to identify interesting potential research questions. We will begin with the seminal studies which relate accounting numbers to capital markets and discuss various topics including positive accounting theory, value relevance, earnings management, voluntary disclosure, accounting conservatism, efficient contracting, etc.	TBA	Graded	Enrolment is subject to approval by School
School of Accountancy	IDIS 700	Machine Learning for Social Science	1 CU	This course explores a wide swath of machine learning tools that are both 1) practical for social science research and 2) readily available to implement. After this course, students should be well prepared to implement certain machine learning approaches into empirical research projects, and well prepared to explore other methods that are not directly covered.	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON601	Microeconomics I	1 CU	This course aims to provide a set of basic models and tools of microeconomics that can be used in any graduate economics course, and even be useful for your future research. Microeconomics I is designed as part of the standard graduate microeconomics course. It consists of the two main parts. In the first part, we study price theory in perfectly competitive markets and decision making under uncertainty and in the second part, we study (non-cooperative) game theory.	TBA	Graded	Enrolment is subject to approval by School. All students should have a "solid" knowledge on intermediate microeconomics (such as Varian's "Intermediate Microeconomics"). This includes your undergraduate knowledge of game theory and familiar with the mathematical arguments.
School of Economics	ECON611	Econometrics I	1 CU	Econ 611 is the first course in the first year sequence in econometrics. The course is composed of two parts: statistics and econometrics. In the first part, statistics, we introduce the necessary tools and techniques that are essential in econometric analysis. In the second part, we discuss OLS, linear IV regression, and generalized method of moments.	TBA	Graded	Enrolment is subject to approval by School. Pre-Requisite: Intermediate level econometrics, multivariate calculus, linear algebra.
School of Economics	ECON621	Microeconomics II	1 CU	The course is the second part of a graduate level introduction to microeconomics. The objective is to provide students with a thorough grounding in the analytical methods of microeconomic theory. The course will focus on General Equilibrium Theory and Welfare Economics/Incentives.	TBA	Graded	Enrolment is subject to approval by School. Pre-Requisite: ECON601 Microeconomics I.
School of Economics	ECON747	Spatial Econometric Models and Methods	1 CU	In many social and economic activities, interactions often occur among geographical units, economic agents, or social actors, which generate spatial/social effects among these units or agents or actors, e.g., neighbourhood effects, peer effects, spillovers, network effects, social norms, externalities, conformity, imitation, contagion, bandwagons, herd behaviour. Spatial econometrics consist of a set of econometric models and methods, proven to be very effective in dealing with these issues. Applications are seen not only in specialized fields of regional science, urban economics, real-estate and economic geography, but also in more traditional fields of economics, finance, and social sciences in general. Spatial econometric models extend the classical linear or panel data regression models by incorporating spatial lag, spatial error, and/or spatial Durbin terms to capture spatial or social effects through weight or adjacency matrices. This course introduces basic spatial econometric models including spatial linear regression models, spatial panel data models, and dynamic spatial panel data models, and the associated methods of estimation and inference such as (quasi) maximum likelihood, M-estimation, and GMM. Common tests for spatial and/or dynamic effects, e.g., LM tests, standardized LM tests, and bootstrap LM tests are introduced. Empirical illustrations of the methods are presented using Matlab, Python or Stata.	TBA	Graded	Enrolment is subject to approval by School. ECON611 Econometrics I and ECON726 Panel Data Econometrics I (or equivalent) are essential. Knowledge of Matlab and Python programming and Stata is useful but not required.
School of Economics	ECON749	Topics in Public Policy	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School.
School of Economics	New	Topics in Mechanism Design	1 CU	This is a topics course in mechanism design. We will cover some cutting-edge research questions in mechanism design with an emphasize on robust mechanism design and behavioral mechanism design. The first couple of lectures serve as a refresher to cover some basics of mechanism design and focus on standard Bayesian models. Building on that, we will move on to analyze the design of mechanisms when the designer does not have detailed information about the environment, the design of mechanisms when agents are unsophisticated, and the design of mechanisms when agents are boundedly rational.	TBA	Graded	Enrolment is subject to approval by School. Some familiarity with mechanism design will come in handy.
School of Social Sciences	PSYC 601	Research Methods	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 603	General Linear Modeling	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 606	Social Psychology	1 CU	This course is the introductory seminar for graduate studies in social psychology. It is designed to provide a sample of the major theoretical ideas within the major topic areas of contemporary social psychology. Although the reading list corresponds closely to the traditional topics found in undergraduate-level introductory social psychology textbooks, students should acquire knowledge of scientific theory and research in these major topic areas and we will explore the material in far greater detail and depth. As such, basic familiarity with undergraduate-level social psychology is a requirement of this course. Furthermore, because this is a graduate level research seminar, we will discuss professional development topics as well.	TBA	Graded	Enrolment is subject to approval by School. Students are assumed to possess basic familiarity with undergraduate-level social psychology.

School of Social Sciences	PSYC 625	Psychology of Self	1 CU	The overarching questions of this course are "What is a Self?" and "How does a Self function?" There are three qualities that seem thematic to much of the philosophical, social psychological, and other theoretical and empirical work that shape current understanding of the self. The primary objective of the course is to think through and discuss these questions and assumptions and for you to come away with an informed opinion about each of them. The discussions will be based on readings, but the goal is to synthesize, to gain a meta-understanding of the positions and the problems they raise, and to practice, as a group, deconstructing and constructing the arguments that underpin these positions and problems. These goals will be accomplished through participation in class discussion, your work on a couple of assignments, and, most substantively, in a substantive, original research proposal that you will work on all semester. I anticipate that you will: 1) gain an understanding of selective but central concepts in defining self and identity; 2) develop expertise in a specific domain of interest related to self and identity; 3) explore new theoretical and/or research ideas; 4) improve your scholarly writing skills; 5) gain experience reviewing papers; and 6) gain experience revising manuscripts and "submitting" them.	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 703	Intervention Science	1 CU	Intervention science is a field of psychology that focuses on designing, implementing, and evaluating interventions or programs to address psychological issues and improve individual or community well-being through evidence-based strategies. It involves using scientific methods to develop strategies that address specific issues or problems, such as mental health disorders, addiction, or educational attainment. Students in this module will learn about the scientific methods used in intervention science and how to apply them to develop evidence-based strategies for addressing specific problems like mental health disorders, addiction, or educational attainment. Specific goals of the module are: •To provide students with a comprehensive understanding of how to design, implement, and evaluate interventions or programs. •To equip students with the knowledge to critically evaluate existing interventions in psychology. •To provide hands-on experience in designing and implementing mini-interventions, while fostering analytical and research abilities. The module will prepare students to contribute to the advancement of intervention science through their own research, publications, and practical applications, fostering their professional development and academic contributions to the field of psychology.	TBA	Graded	Enrolment is subject to approval by School
Yong Pung How School of Law	IDIS702	Introduction to Interdisciplinary Research	1 CU	Disciplines within the social sciences have given analytical primacy to either the environment (sociology, for instance) or the agent (psychology, for instance) or the interaction (the rational choice school within economics, for instance). As such, the disciplinarily – limited study of social science provides an incomplete understanding of social action. Interdisciplinary work within the social sciences is an attempt to redress this flaw. Interdisciplinary social science then can be defined, equally pithily, as the integrated study of social action. This course is designed to introduce you to the nature and modes of, the steps involved in and the integrative frameworks for pursuing interdisciplinary social science. The course is divided into three relatively self-contained units. The first unit (seminars 1-5) explores the nature and purpose of knowledge in the social sciences and, in this context, discusses the epistemic goals and the methodological individualism of the different disciplines within the social sciences. The second unit (seminars 6-8) presents several extant sites of interdisciplinary cooperation within the social sciences. The third unit (seminars 9-12) prepares you for engaging in interdisciplinary research; it introduces the different modes of interdisciplinary research and the tasks associated with such research, builds rudimentary familiarity with data-based reasoning, and concludes the course by providing practical advice on implementing an interdisciplinary research project.	TBA	Graded	Enrolment is subject to approval by School