

**Courses offered by Singapore Management University for PhD Students Exchange Programme  
For Term 2 AY2023-24 (January 2024 intake) - as of 3 October 2023**

**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)	Additional Remarks
Lee Kong Chian School of Business	OBHR 612	Research in Human Resources	1 CU	This doctoral-level seminar provides students with an overview of research in the domain of Human Resource Management (HRM) and Strategic Human Resource Management (SHRM). In particular, the seminar discussions and assignments deals with theoretical, conceptual, and empirical issues in staffing, employer branding, performance management, compensation, training and development, turnover, as well as strategic Human Resource Management.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	MKTG 704	Consumer Behavior	1 CU	This course is a doctoral seminar that focuses on consumer behavior. Consumer Behavior at a fundamental level has to do with how marketing concepts, tools, and processes can be used to develop a better understanding of consumers and the processes they use to choose, use (consume), and dispose of products and services, including consumers' emotional, mental, and behavioral responses.	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	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.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	OPIM 706	Topics in Game Theory and its Application	1 CU	Game theory is the analysis of situations in which the payoff of a decision maker depends not only on his own actions but also on those of others. It is a standard analytical tool in social sciences. This course is designed to introduce students to the basics of game theory and its applications in business research. It aims to deepen students' understanding of strategic interaction between firms. Basic concepts such as dominance, Nash equilibrium, backward induction, asymmetric information, adverse selection, and signalling are discussed in the course. The classic literature in business and management is used to illustrate the concepts.	TBA	Graded	Only accepting max. 2 students from SUSEP prog. Enrolment is subject to approval by School
Lee Kong Chian School of Business	FNCE 601B	Corporate Finance Research	1 CU	It is a Ph.D. seminar style class in the field of corporate finance research. The class introduces research on the structure of a modern corporation and its financing and investment decisions. It includes topics on corporate capital structure, IPOs and SEOs, mergers and acquisitions, payout policy, agency problems and corporate governance. In addition to the fundamental knowledge on these research topics, the other goal is to equip you the necessary skills of critical thinking, research hypotheses development, and statistical test implementation. In other words, how to write a good research paper in the field of corporate finance?	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	OBHR 727	Psychology of Workplace Technology	0.5 CU	The world of work is undergoing a rapid transformation on account of technology. It is critical to understand the impact of this transformation on employees and organizations. In order to do so, the course will draw on organizational scholarship related to the psychology of workplace technology.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	MGMT 705	Seminar in Strategic Management	1 CU	This course is designed to provide a strong foundation for critical thinking and practical application in the area of strategic management. This course will be run as a seminar examining theories and empirical studies of strategic management. It will be inter-disciplinary.	TBA	Graded	Capped at 6 students Enrolment is subject to approval by School
School of Computing and Information Systems	CS702	Computational Interaction	1 CU	Computational capabilities enable new ways to design and develop novel interaction technologies. At the same time, it allows us to evaluate and better understand users' behaviors.  In this course, we will:  - Review topics on user-centered design and programming interactive systems that are necessary for completing assignments - Learn how to apply machine learning and optimization techniques like Gaussian process and integer programming for designing user interfaces and information visualizations - Use modern and emerging sensing technologies like speech recognition and gesture recognition to design novel input methods - Learn to model people's behaviors using statistical techniques like Bayesian methods	TBA	Graded	Enrolment is subject to approval by School

School of Computing and Information Systems	CS703	Optimization and Computing	1 CU	This course will introduce students to fundamentals of convex optimisation (such as the notions of convexity, convex sets and functions, linear and quadratic programs, optimality conditions, duality theory etc), and enable students to recognise and solve convex optimisation problems that arise in a variety of computing applications (particularly in the context of AI, machine learning and operations research). Mathematical optimization has become the backbone of several successful AI/ML applications (e.g., linear programming for solving Markov decision problems, quadratic programming for support vector machines, algorithms such as gradient descent for deep learning among several others). The course will endeavour to provide solid foundations in optimization basics that will enable students to understand a variety of such practical applications of mathematical optimization.	TBA	Graded	Enrolment is subject to approval by School
School of Computing and Information Systems	CS704	Information Security	1 CU	This course studies the key facets of information security, from theory to applications in a networked environment. Topics to be covered include symmetric key cryptosystems, number-theoretical foundations, public key cryptosystems, authentication, key exchange, access control, Internet security architecture, and emerging security standards.	TBA	Graded	Enrolment is subject to approval by School
School of Computing and Information Systems	CS706	Software Mining and Analysis	1 CU	This course introduces participants to advanced techniques and tools for mining and analyzing software data, which includes but not limited to source code, executable code, code repository records, code specifications, test cases, bug reports, execution profiles, and documentations. Major topics include static program analysis, dynamic program analysis, software repository mining, and specification mining. While not sidestepping mining and analysis theories, the course aims to equip participants with knowledge and skills that can be applied to resolve software issues in their own research and development projects.	TBA	Graded	Enrolment is subject to approval by School
School of Computing and Information Systems	IS713	Foundations for Data Analytics	1 CU	The overall objective of this course is to familiarize the master and PHD students with data analytics and its applicability in a real business environment. Here, data analytics include the extensive use of data, statistical and quantitative analysis, exploratory and predictive models, and fact-based simulation. The class mainly deals with empirical fundamentals for data analytics. Knowing how to effectively use them (method for data analytics) to solve research problems will be very helpful in students' future professional career.  We will study (1) how to systematically understand what you see and (2) how to make what you believe more persuasive. Data analytic tools will be very useful in many situations you are confronted with.  The class will be built on applied economics, statistics, and applied econometrics.	TBA	Graded	Enrolment is subject to approval by School
School of Accounting	ACCT 703	Analytical and Empirical Research in Accounting	1 CU	This course introduces analytical and empirical methods in accounting research. The first half of the course introduces econometric intuitions behind commonly used empirical methods and their applications in accounting research. The class covers various methods such as instrumental variables, natural experiments, regression discontinuity, and matching and selection models, and the application of these methods to various topics, such as financial reporting, disclosure, governance, and tax. The second half of the course focuses accounting theory as it applies to the motivation, intuition, and interpretation of empirical accounting work. Having an appreciation for theory and some experience in how to approach the theory literature makes it easier to form research ideas, develop hypotheses, and understand the results of your work.	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 604	Multivariate Statistics	1 CU	This course will introduce common statistics in social science research to help you evaluate and analyze your data for your research papers. We will focus on the following multivariate statistics: MANOVA, regression analysis, moderation and mediation analysis, exploratory and confirmatory factor analysis, and path analysis. This course will also cover discriminant analysis, meta-analysis, and multi-level analysis. These techniques are important and useful because it helps you to evaluate the quality of the data and to understand and interpret research results. To increase your hands-on experience with statistical analyses, you will be taught how to use Statistical Package for the Social Sciences (SPSS), Mplus, and STATA computer software.	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 608	Industrial and Organisational Psychology	1 CU	The overarching goal of the course is to provide students with knowledge regarding specific topics of industrial and organizational psychology. Examples of the topics include personnel selection, individual differences, work motivation, conflict management, organizational research methods, and emotions at work.	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 610	Evolutionary Psychology	1 CU	The field of evolutionary psychology has expanded in recent years and is seeing applicability in a wide variety of domains ranging from mating to business. This postgraduate course aims to provide students with opportunities to become broadly acquainted with theory and research in evolutionary psychology through reading and discussion. In addition, the course aims to give students the opportunity practice summarizing and presenting scientific research, and to propose new research using an evolutionary perspective.	TBA	Graded	Enrolment is subject to approval by School

School of Social Sciences	PSYC 727	Cognition and Development	1 CU	This course offers an advanced introduction to fundamental topics in cognitive and developmental psychology. We will focus on understanding the theoretical construct of executive functions (EF), its foundation, and advancement in various developmental contexts. We will also focus on the numerous experiential factors that influence EF and its impacts on various aspects of cognitive functioning, aging, social relationship, emotional functioning, well-being, adaptabilities, developmental adjustment across the lifespan, and so on. The course ultimately aims to serve as a strong foundation for you to conduct new and independent research in cognitive and developmental psychology.	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 726	Psychology of Aging	1 CU	Psychology of Aging is a rigorous, project-based doctoral-level course designed to offer an in-depth examination of the psychological, biological, and social aspects of aging. This course invites advanced students in psychology to engage deeply with the theoretical perspectives, empirical research, and practical implications related to aging. Special emphasis is placed on applied learning through one comprehensive review project and one empirical project, utilizing real-world datasets in midlife and older adults, which aims to bridge the gap between theory and practice.	TBA	Graded	Enrolment is subject to approval by School
College of Integrative Studies	TBA	Cities and Disasters	1 CU	This course is designed to give students an overview of the broad topic of urban disaster, from an historical perspective. It shows how 'disaster studies' and history are mutually beneficial, revealing how we can use history to better understand how societies and governments deal with hazards and their potentially disastrous outcomes. It serves as an introduction to the historical field and the methodologies used to understand past disaster, explicitly showing how studying past disaster gives us a lens into the intricate workings of social, economic, and political functioning of disaster management but also society as a whole, revealing entrenched features of society – such as vulnerability – that leave a society less able to cope. Such situations turn hazards into disasters. The historical lens therefore leads researchers into a deep study of systematic spatiotemporal socio-political functioning, showing how modern disasters are shaped by endemic and profoundly ingrained disparities and dysfunctionality in contemporary organisations, structures, and frameworks for managing society and disaster.	Thursday, either 12:45pm to 4pm	Graded	Enrolment is subject to approval by School
College of Integrative Studies	TBA	Studying Cities: Research Methods	1 CU	This course aims to familiarise students with a diversity of research methods for studying cities in an Asian context. The primary objective is to enable students to critically engage with research findings across multiple disciplines by understanding the methods used, their strengths and limitations, and whether they have been used correctly. Students will begin by reflecting on the 'objectivity' of research findings. Following this, three lectures will serve as a statistical primer, ensuring that students possess a solid understanding of fundamental quantitative research methods. Subjects covered will include hypothesis testing, linear regression, causal attribution, and reproducibility and replicability. The main section of the course will adopt a reading group format. Through supervised discussion of carefully selected research articles, students will be intuitively introduced to research methods in economics, political science, geography, history, law, and the behavioural sciences. The course will conclude with sessions on fieldwork and research ethics, and the practicalities of conducting interdisciplinary research.	Tuesday, 7pm to 10:15pm	Graded	Enrolment is subject to approval by School
School of Economics	ECON602	Macroeconomics I	1CU	This course, which is the first course of a two-part Macroeconomics sequence, focuses on familiarizing students with the models, concepts, and techniques commonly used in modern macroeconomic theory and its applications.	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON622	Macroeconomics II	1CU	This course is devoted to studying economies where agents are heterogeneous. These models are helpful to analyze a wide range of questions pertaining to business cycles, income distribution, asset pricing, consumption insurance, labor supply, the aggregate and redistributive effects of policies, etc. We will start with some "aggregation theorems" to show that in some cases a representative agent still exists. Next, we will move towards economies with "incomplete markets" where agents can only borrow and save through a risk-free bond. We begin by characterizing in detail the individual problem. Next, we proceed to the description of the stationary equilibrium. Then, we study an incomplete-markets model with aggregate shocks. The second set of classes are devoted to extend the economies into continuous time model. The last set of classes will introduce economies with heterogeneous firms. The aim of this course is to learn: 1) this important class of heterogeneous agents model, and 2) how to solve numerically for the equilibrium of these economies, a necessary step to use these models for quantitative research.	TBA	Graded	ECON602 sequel course Enrolment is subject to approval by School
School of Economics	ECON623	Econometrics II	1CU	This is an overview of time series econometrics, designed to introduce students to a range of material in stationary time series, nonstationary time series, multivariate time series, including unit root theory, state-space models, VAR models, and cointegrated models.	TBA	Graded	ECON611 sequel course Enrolment is subject to approval by School
School of Economics	ECON740	Empirical Research Project	1CU	This course introduces the modern theory of "causal inference" which is based on a theory of counterfactuals. In addition to learning several prominent research designs in applied microeconometrics (e.g., propensity score matching, difference-in-differences, regression discontinuity, instrumental variables, synthetic control), students will gain some competency at using Stata to implement these research designs. The goal of the course is to guide students to develop their own empirical research project.	TBA	Pass/Fail	Enrolment is subject to approval by School

School of Economics	ECON743	Computational Macroeconomics	1CU	This course equips students with powerful computational tools to be used in macroeconomic analysis. Students learn how to solve macroeconomic models using computational methods, calibrate these models, and use calibrated models to address interesting questions in macroeconomics. While students are exposed to some basic macro models throughout the course, the main objective is computer implementation of these models, possibly with real data. This course is part of the Econ PhD program. Non-Econ PhD or MSE/MSFE students can enroll in this course. There are no pre-requisites for this course. I strongly recommend you to come to the class with your laptop for implementing in-class demonstrations.	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON744	Topics in Health Economics	1CU	Health economics is a rapidly growing and increasingly popular field in economics. This course will survey recent work in health economics. The course will mainly cover evidence-based empirical research using recent econometric tools such as regression discontinuity design and randomized controlled trials. Topics include demand and supply of healthcare services, economic returns to medical care, economic issues in health insurance reforms, long-term effects of early-life health shocks, health care in developing countries, etc. There will be individual presentations of published research articles or their own, preliminary research ideas by students.	TBA	Graded	Pre-Requisite: ECON611 Econometrics and ECON623 Econometrics II Enrolment is subject to approval by School
School of Economics	ECON745	Topics in Labour Economics	1CU	In the first part of the course, we will cover major topics in labor economics, including labor supply and human capital theory. Specically, we will study life-cycle models of consumption, labor supply, and human capital accumulation. We will also discuss the estimation of the life-cycle models, focusing on practical methods for estimating dynamic discrete choice models and their application. In the second part of the course, we will cover recent developments in the eld. I will present a review of each topic for the rst part of each class, and a student will present a recent paper on the topic in the second part. I will post the papers to be presented later. We will discuss all the aspects of the article: its contribution, limitation, possible extension, and application to other fields.	TBA	Graded	Pre-Requisite: Econometrics AND Microeconomics AND Macroeconomics Enrolment is subject to approval by School
School of Economics	TBA	Topics in Development Economics	1CU	This course provides an introduction to selected topics in development economics at PhD level. I aim to cover important analytical tools so that students can understand the current development economics literature after taking this course. Poverty, inequality, credits, health, education, and labor are the main topics covered in this course.	TBA	Graded	Pre-Requisite: ECON601 Microeconomics and ECON621 Microeconomics II and ECON611 Econometrics and ECON623 Econometrics II Enrolment is subject to approval by School