

Courses offered by Singapore Management University for PhD Students Exchange Programme
For AY2-27 Term 2 (January 2027 intake) - as of 28 September 2026

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
College of Integrative Studies	INTS709	Principles of Sustainability	1 CU	This PhD-level course explores the principles, and real-world applications of sustainability across environmental, social, and institutional dimensions. It is designed to equip emerging scholars with a rigorous understanding of how scientific evidence, data, finance, and governance interact to shape global sustainability outcomes. The course begins by examining the unique role universities play in driving sustainable transformations, including their influence through research and investment practices. Students then engage with the science of sustainability, climate adaptation, planetary boundaries, and biodiversity loss, building a foundation for evidence-based analysis. A substantial portion of the course explores sustainability accounting, data quality, and the integration of sustainability metrics into financial markets and policymaking. Students critically assess green finance instruments, disclosure frameworks, and the risks of greenwashing. The course also introduces state-of-the-art applications of artificial intelligence in sustainability monitoring and decision-making. Throughout, students reflect on the ethical challenges inherent in sustainability work, including conflicts of interest and researcher well-being. The capstone project focuses on assessing the sustainability performance of university bond issuance and capex investments, enabling students to apply course concepts to a real institutional context. By the end of the course, students will have developed analytical, ethical, and practical competencies essential for impactful research and leadership in sustainability.	TBA	Graded	Enrolment is subject to approval by School
College of Integrative Studies	INTS710	Urban Geographic Information System	1 CU	This graduate-level course introduces students to GIS as a tool to be integrated into urban informatics research. Through lectures, labs, exercises, and a final project, this course gives an overview of GIS, shows how it is currently being used in professional and academic settings, goes through a myriad of applications associated with planning and policy, and looks at methods for critically evaluating data and geographic analysis outcomes. You will work through exercises covering data acquisition, spatial analysis, representation of spatial information, spatial statistics, and integrating GIS data with other programs. Beyond the technical, we will look at the social implications of GIS as a powerful tool for urban decision-making including technology access, data integrity, human error and bias, empowerment of underrepresented positions, and manipulation of information. Much of the focus of the course is on a final project, for which students can investigate a personal area of interest as it relates to GIS.	TBA	Graded	Enrolment is subject to approval by School
College of Integrative Studies	INTS712	Environmental Sustainability: Science, Technology & Practice	1 CU	This graduate seminar offers an advanced, interdisciplinary course on environmental sustainability. Emphasis will be placed on the interconnections between different facets of the earth and environmental system, the science and technologies developed to address global environmental challenges, as well as the importance of interdisciplinary approaches to identify, manage and design solutions for how society responds to these challenges. This course is suitable for postgraduate students from all disciplines and does not require a science background. Students will critically engage with the literature and build competencies in environmental data management. Environmental justice and equity will be a subject of study and used as a lens applied to the class's own data collection and project design. This course contributes to GLOs on Knowledge and Expertise, Intellectual and Creative Skills and Global Citizenship. Students should be prepared for graduate-level reading loads, independent research and team-based project management.	TBA	Graded	Enrolment is subject to approval by School
College of Integrative Studies	INTS713	Causal Inference Toolbox	1 CU	This PhD course develops the tools needed to identify, estimate and interpret causal effects using experimental and observational data. Students study potential outcomes, graphical causal models, regression adjustment, instrumental variables, matching, propensity scores and doubly robust estimation. The course also covers difference-in-differences, panel data, synthetic control and regression discontinuity, followed by heterogeneous treatment effects and causal machine learning. Throughout the course, students connect each estimator to its target population and identifying assumptions, assess statistical uncertainty, and examine how violations affect conclusions. Lectures combine mathematical arguments with empirical examples and Python demonstrations. By the end of the course, students should be able to design a causal study, implement suitable methods and communicate a reproducible analysis with clearly stated limitations.	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	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 Computing and Information Systems	CS715	Systems and Data Security	1 CU	This course will teach various modern topics in systems and data security. It will provide a thorough grounding in cyber-security for students who are interested in conducting research on security, and for students who are more broadly interested in real-world security issues and techniques. Students will undertake a semester-long research project. The goal of this course is to introduce fundamental concepts as well as state-of-the-art techniques in this area, and let students gain hands-on experience by applying some of these techniques to solve real-world security problems. Lecture topics will include, but not limited to: - Unwanted traffic, such as spam and defense mechanisms - Software vulnerability detection and mitigation - Malware analysis - Data loss prevention - Cyber-physical system security, such as IoT, smart manufacturing - Other emerging topics, such as AI security and blockchain security	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 about 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 Nash equilibrium, backward induction, asymmetric information, adverse selection, principal agent, and bargaining are discussed in the course. The literature in business and management is used to illustrate the concepts.	TBA	Graded	Enrolment is subject to approval by School

Lee Kong Chian School of Business	OBHR 611	Research in Organizational Behavior	1 CU	The objective of this course is to provide you with the exposure to many of the topics and emerging debates within the field of OB. Through active involvement in the course, participants will refine their analytical skills (reading, evaluating, and drawing conclusions from conceptual and empirical articles), gain insight into the challenges and trade-offs inherent in research designs, learn how to develop novel research questions/hypotheses and to design studies that can address these, and learn how to be convincing and succinct in communicating ideas. As much of graduate training tends to focus on reading and digesting information, this course places a wider and important focus on critical thinking and writing skills.	TBA	Graded	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 fundamental 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 with the necessary skills of critical thinking, research hypotheses development, and statistical test implementation. Before each topic I will distribute a list of reading materials to be discussed in the next class meetings. I will present and lead discussions on some of the papers. On a rotational basis, you are also expected to present/comment/criticize these papers in class. There is no textbook for this course. However, you are expected to have some basic knowledge of finance and accounting. For review of basic knowledge, please refer to recent editions of the textbooks of Corporate Finance by Brealey, Myers, and Allen; Ross, Westerfield, and Jaffe; or Berk, DeMarzo, and Harford.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	FNCE 704	Market Microstructure and its Role for Research in Asset Pricing & Corporate Finance	1 CU	This advanced course explores theoretical frameworks that analyze how various (financial) securities are traded in different forms of financial markets – a topic often known as “market microstructure.” Students will engage with both foundational and cutting-edge research to understand the behavior of various market participants, the formation of prices, and the role of information in trading processes. Through rigorous qualitative modeling, students will develop a deep comprehension of the factors influencing market quality, like liquidity, efficiency, and stability.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	MKTG712	Empirical Marketing Models	1 CU	Empirical Marketing Models provides students with an essential skillset to conduct empirical research in marketing and other business disciplines. This course will directly help students in the execution of their research projects, in handling reviewer comments, and may help them come up with novel research ideas. Students will gain hands-on experience in applying the methods discussed. The course introduces students to the various sources of quantitative data that may be encountered in academic marketing research. Also, the link will be made between the different types of data and causality. Students will learn the foundations of regression analysis, including moderation and mediation, and will gain hands-on experience in specifying and estimating linear additive and multiplicative marketing models. Moreover, students will learn about common problems and their solutions, including multicollinearity, endogeneity, serial correlation, and heteroscedasticity. Students will then be introduced to random and fixed effects panel data models, followed by time-series models, including VAR and state space models. The course continues with a discussion of matching estimators. Finally, students will learn about binary choice and count data models.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	MGMT 709	Organization Theory	1 CU	This course provides a survey of and introduction to some of the major areas of research in organization theory.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	MGMT 755	Social Network	0.5 CU	The aim of this course is to provide an overview of social network research, with a focus on research that is relevant for management and organizations. This half-unit course is about introducing the more commonly used constructs and arguments in social network research. Our discussion will revolve around the ideas, arguments, and findings in this research, and will not go into the technical aspects of social network analysis. We will talk about measures and operationalization but will not dwell on them. As for estimations and inference with network data, I can refer those who are interested to different sources for them, but the actual techniques and their application will not be discussed in detail during our sessions. Most of what we read and discuss will be at the individual level, although we will still cover work on the dyadic/relational, team, organizational, and macro levels as well.	TBA	Graded	Enrolment is subject to approval by School
School of Accountancy	ACCT 703	Analytical and Empirical Research in Accounting	1 CU	This course introduces analytical and empirical studies in accounting research, emphasizing both theory construction and methodology. The first half of the course introduces empirical research topics and the econometric intuitions behind commonly used empirical methods. The class covers various topics, such as financial reporting, disclosure, governance, and taxation, and various methods, such as instrumental variables, and natural experiments, and regression discontinuity. The second half of the course focuses on accounting theory as it applies to the motivation, intuition, and interpretation of empirical accounting work. Having an appreciation for theory and some experience of 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 introduces key statistical techniques commonly used in social science research, equipping you with the tools to evaluate and analyze data for your research papers. The focus will be on multivariate statistics, including advanced linear models for moderation and mediation, multilevel models, exploratory factor analysis, confirmatory factor analysis, and structural equation modeling. These methods are essential for assessing data quality and interpreting research findings effectively. To enhance your hands-on experience, the course will include training in statistical analyses using STATA software, enabling you to apply these techniques in your research projects.	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
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 introduces both fundamental and advanced topics in Cognitive and Developmental Psychology. Our primary focus will be on understanding the construct of executive functions (EF), including its theoretical foundations, and empirical relevance and importance across various contexts. Additionally, we will examine several key experiential factors that influence executive functioning as well as the impact of EF on cognitive aging, social relationships, emotional well-being, adaptability, and developmental adjustment throughout the lifespan. The ultimate goal of this course is to provide students with a solid foundation for conducting independent research in the field of cognitive and developmental psychology.	TBA	Graded	Enrolment is subject to approval by School

School of Social Sciences	PSYC 702	Family Psychology	1 CU	The family environment is a critical context for the development of children and for adult adjustment. In this course we will delve into major theories and conceptual models that underpin the intricacies of parenting and family interactions. We will also look at functional and dysfunctional family relationships and behaviours, and effective ways to assess such interactions. The course culminates in an investigation on applications of developmental models to intervention and clinical applications, and emphasize the critical role of parenting interventions in preventing and managing social, emotional, behavioural and health-related challenges.	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 721	Group Processes and Intergroup Relations	1 CU	Social group identities shape how we perceive ourselves, perceive others from a similar or different social group, and how we get along with each other. This course will review theory and research on intergroup processes and relations from the social psychological literature. The first half of the course will cover fundamental theories on the origins and motives underlying intergroup identity, perception, and behaviour. The second half of the course will focus on intrapersonal, interpersonal, and intergroup consequences of those motives, as well as highlight the evolving literature on improving intergroup attitudes and relations. Novel integration and application of methodologies in the study of intergroup attitudes and processes will be highlighted throughout the course.	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON602	Macroeconomics I	1 CU	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. Outline of the Course: 1. Representative Agent Economies a. A simple endowment economy with and without uncertainty: Arrow-Debreu, Sequential, and Recursive Competitive Equilibria, and an introduction to asset pricing b. The Neo-Classical Growth Model with and without uncertainty: Arrow-Debreu, Sequential, and Recursive Competitive Equilibria 2. Heterogeneous Agent Economies a. The complete market case with commitment, and some more on asset pricing b. Equilibrium without commitment, applications on the link between income and consumption inequality and asset pricing again c. The overlapping-generation (OLG) model 3. Search Models of Unemployment a. Search and Unemployment: i. The McCall Model and some applications ii. The Burdett-Mortensen Model iii. Some applications b. Equilibrium Models of Unemployment: i. The Lucas-Prescott Island Model ii. The Diamond-Mortensen-Pissarides Framework iii. The Competitive Search Framework 4. Money and Banking a. Overlapping-generation model with money b. The New Monetarist Framework, the role of liquidity for asset pricing and the Philippps curve revisited	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON622	Macroeconomics II	1 CU	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	Enrolment is subject to approval by School
School of Economics	ECON623	Econometrics II	1 CU	This is an overview of Econometrics II, designed to introduce students to a range of material in stationary time series, nonstationary time series, multivariate time series, and panel data, including unit root theory, state-space models, VAR models, and linear panel data models.	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON740	Empirical Research Project	1 CU	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 in using Stata to implement these research designs. The goal of the course is to guide students to develop their own empirical research projects.	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON746	High Frequency Econometrics	1 CU	This course covers several basic components in high frequency econometrics: (i) probability and measure, asymptotic statistics, (ii) stochastic calculus, (iii) basis in high frequency econometrics. The course will help students build the necessary theoretical and practical foundation for analyzing the high frequency financial data.	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON748	Real Estate Economics	1 CU	This course provides an overview of real estate markets as well as public policies that affect those markets. We will discuss factors driving housing demand and supply, house price movements (captured by house price indices), and real estate cycles (including bubbles). We will also discuss different types of mortgage instruments used to finance investments in real estate and their impact on market outcomes.	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON755	Topics in International Macroeconomics	1 CU	This course covers key topics and analytical methods in international macroeconomics, including both traditional subjects (such as business cycles, capital controls, exchange rate policies, and sovereign debt in open economies) and cutting-edge issues (such as currency mismatch, international currency competition, and trade dynamics). The goal of this course is to provide you with the knowledge and tools needed to understand developments in the financially interconnected world economy and to evaluate the effectiveness of various macroeconomic and financial policy options in an open economy context.	TBA	Graded	Enrolment is subject to approval by School