

SA.510 (INTERNATIONAL ECONOMICS AND FINANCE)

Courses

SA.510.100. Advanced Topics in Trade Theory. 4 Credits.

A rigorous seminar on international trade and commercial policy covering a broad set of policy-oriented topics. Covers both theory and applications, but emphasizes tools and analytical techniques rather than case studies. Overall goal is to develop a broad conceptual understanding of ongoing issues in international trade and familiarity with the analytical techniques used by economists in developing policy recommendations. Prerequisite: International Econ I

Prerequisite(s): Students may not register for this class if they have already received credit for SA.300.743[C];SA.100.303[C] OR SA.310.700[C]

SA.510.101. Business Strategies for Global Financial Institutions. 4 Credits.

The objective is for students to learn about the global financial services industry and to equip them with the content and skills necessary to obtain professional employment in financial services, consulting, other industries or government. The course combines academic teachings with Business School cases in “traditional” global financial services, as well as “Fintech” and “Crypto”. The course emphasizes three areas: (1) Gaining fundamental knowledge of corporate business strategy (2) Understanding how global financial institutions execute (or fail to execute) their strategies (3) Developing students’ commercial skills, such as communications, presentation skills and teaming. The class is participatory. Students should review the syllabus in detail. Corporate Finance, Financial Decision-Making or similar undergraduate classes are useful but not mandatory. If you have questions, please contact me (jkocjan2@jh.edu).

Prerequisite(s): Students may not register for this class if they have already received credit for SA.390.101[C]

SA.510.102. Corporate Finance. 4 Credits.

Introduces quantitative tools and framework of financial decision-making. Examines issues of time value, pricing of financial instruments, trade-off between risk and return, portfolio theory, capital budgeting, financial ratio analysis, efficiency of financial markets, capital structure decisions, cost of capital issues, option theory, and financial risk and risk management. The course is rigorous and analytical. The goal is to provide a solid understanding of the concepts of finance and quantitative tools necessary to enter careers in all areas of finance.

Prerequisite(s): Students may not register for this class if they have already received credit for SA.380.760[C];SA.100.303[C] OR SA.310.700[C]

SA.510.103. Development Finance Fundamentals. 4 Credits.

We’re not just a bank. We’re a solutions institution.” – Ajay Banga, President, World Bank Group (2023) Development finance is undergoing a fundamental rethinking in light of today’s rapidly evolving geopolitical and economic context. In the wake of COVID-19, developing countries are grappling with significantly constrained fiscal space, rising debt burdens, and limited capacity to fund social and infrastructure priorities. At the same time, the global economy is contending with new headwinds –intensifying trade and tariff frictions, climate shocks, and shifts in monetary policy—that are reshaping capital flows and deepening financing gaps. In this environment, Development Finance Institutions (DFIs) are being called to play a much broader role—one that extends beyond lending, to enabling and catalyzing capital, crowding in private finance, and aligning public, philanthropic, and market-based resources toward sustainable development. This course takes a forward-looking and practical approach to understanding the architecture of the development finance ecosystem, the strategic tools and instruments DFIs deploy, and the new expectations placed on them by both investors and governments. Students will explore how DFIs are responding to today’s multi-crisis world—rethinking risk, return, and impact—and the mechanisms they use to design and finance development projects. We will draw on foundational concepts in corporate and project finance, as well as real-world case studies and hands-on assignments. By the end of the course, students will be equipped with the analytical tools and contextual awareness needed to navigate a career in international development finance.

Prerequisite(s): Students may not register for this class if they have already received credit for SA.380.710[C]

SA.510.104. Economic Development. 4 Credits.

This course introduces students to the study of economic development. Different disciplines have different methods – this class uses the tools of economics to examine the reasons why some places are so much more prosperous than others. Specifically, we will use mathematical modeling and econometrics to develop and test theories of economic growth, structural transformation and poverty alleviation. While the core questions in economic development could be examined anywhere in the world, we will focus on low- and middle-income countries, with some references to the historical literature in richer countries like the United States. This class is targeted at anyone considering a career in research or policymaking in developing countries, but will also provide useful skills and insights to those working on issues of poverty and growth in more developed countries as well.

Prerequisite(s): Students may not register for this class if they have already received credit for SA.320.744[C];(SA.100.304[C] AND SA.100.303[C] AND (SA.100.501[C] OR SA.999.702[C])) OR SA.310.700[C]

SA.510.105. Game Theory. 4 Credits.

Traditional economic theory tends to avoid interactive influences among decision-makers. Game theory focuses on analyzing the effects of interaction among individuals and groups with competing and conflicting goals. The course covers cooperative and noncooperative game theory, explaining the nature and selection of pure and mixed strategies, the various equilibrium concepts used and the theory’s relationship to traditional optimization analysis. Draws examples from microeconomic theory, international trade and trade policy, arms control, international relations as well as other fields. The course is self-contained with respect to mathematics content.

Prerequisite(s): Students may not register for this class if they have already received credit for SA.300.713[C];SA.100.303[C]

SA.510.106. Multinational Financial Management. 4 Credits.

Covers issues related to both international financial markets and financial decision-making within the international environment. Focuses on understanding and forecasting financial conditions in international markets; identifying, measuring and managing exchange-rate risk; taxation of international income; implications of political risk on project valuation; and cost of capital for international projects. Prerequisite: Corporate Finance.

Prerequisite(s): Students may not register for this class if they have already received credit for SA.380.761[C];SA.510.102[C]

SA.510.107. Impact Evaluation in Development. 4 Credits.

The goal of this course is to provide students with an introduction to key methods of quantitative policy analysis and impact evaluation used to analyze policy relevant questions in developing countries. We develop the statistical toolkit of regression analysis, reviewing the bivariate regression model and then continuing with multiple regression, and explore how these methods are applied to policy analysis in five benchmark techniques: randomized trials, direct regression analysis, instrumental variables, regression discontinuity, and difference in differences. We emphasize the distinction between regression as a statistical tool and the additional context knowledge (and occasionally assumptions) that are required to address causal policy questions. We will rely on empirical microeconomic studies (mostly in developing countries) to analyze behavior under different types of market failures and to evaluate the impacts of policy interventions. Pre-requisite: Econometrics. Previous knowledge of STATA will be helpful.

Prerequisite(s): SA.100.401[C] OR SA.310.770[C]; Students may not register for this class if they have already received credit for SA.320.731[C]

SA.510.108. International Financial Markets. 4 Credits.

This is a survey course covering issues in international financial markets. We will cover various markets and financial instruments, including bonds and bond markets, an introduction to derivatives and structured financial products. We also cover the theory of investment, including modern portfolio theory, behavioral finance, fat-tailed distributions/Black Swans and efficient market theory. Finally, we close the course with a selective history of financial crises, which also introduce basic issues related to financial intermediation (banking and shadow banking). There is a strong emphasis on real world financial instruments, institutions and issues. There are no prerequisites, though International Economics II or International Finance will be helpful.

Prerequisite(s): Students may not register for this class if they have already received credit for SA.380.722[C]

SA.510.109. Introduction to Economic Development. 4 Credits.

This course is designed to familiarize students with the key economic challenges facing developing countries. It will combine theoretical with empirical analysis and use specific examples from the developing world to deepen understanding of the drivers of economic development and the obstacles that stand in their way. This is an introductory course, without prerequisites, and is appropriate for students without prior course work in development.

Prerequisite(s): Students may not register for this class if they have already received credit for SA.320.724[C]

SA.510.110. Project Finance. 4 Credits.

Provides a practical and quantitative approach to understanding project finance transactions. Focuses on energy transactions in emerging markets. Integrates principles of corporate finance with an understanding of specific technologies, industrial organization, regulatory framework and country-specific policies. Examines foreign exchange issues, taxation, risk evaluation and mitigation and key contractual structures. Discusses typical loan structures and inter-creditor issues. Goal is to understand how the financial structure for a project finance transaction is analytically determined. Students build and apply detailed quantitative financial models. Prerequisite: Corporate Finance. Cannot take if you have already passed Infrastructure Finance and Modeling.

Prerequisite(s): SA.510.102[C] OR SA.310.722[C]; Students may not register for this class if they have already received credit for SA.380.834[C]

SA.510.111. Public Finance. 4 Credits.

Introduces the key concepts in public finance that underpin most discussions of public policy regarding the role of the government sector, including public goods (both national and global), externalities and market failure, tax policy, macrofiscal policy and fiscal federalism. Using these concepts, seeks to highlight some of the challenging real-world public policy issues confronting the government sector in different parts of the world and how these are evolving in a globalizing world.

Prerequisite: International Econ I

Prerequisite(s): SA.100.303[C]; Students may not register for this class if they have already received credit for SA.300.754[C]

SA.510.112. Quantitative Global Economics. 4 Credits.

Focuses on issues relevant to understanding the world economy: modeling and forecasting of exchange rates, modeling the sustainability of external imbalances, determining the importance of international capital flows and implementing monetary-policy rules. Examines empirical studies in each of these areas by looking at their assumptions, weaknesses and strengths and considering whether there are alternative methods of addressing a given issue. Students learn to develop an independent opinion of how theoretical ideas are applied to policy questions by asking: How much? Does it matter? How do you know?

Prerequisite(s): SA.100.304[C] OR SA.310.701[C]; Students may not register for this class if they have already received credit for SA.340.734[C]

SA.510.113. Microfinance and Impact Investing. 4 Credits.

Designed for those who wish to gain a deeper understanding of the financial, operational, and public policy aspects of microfinance, this course is ideal for students interested in careers in microfinance analysis, advisory, or investing and in the wider spheres of ethical banking, fintech, and impact investing. The early weeks of the course will explore the foundations of the microfinance movement, dive deep into the products and services associated with financial services for the poor, and ground students in the structure, operations, and technologies used in microfinance institutions. Next, students will take an investor's perspective on microfinance, looking at the application of commercial investment to the sector and its implications, teaching students how to perform financial analysis of microfinance institutions, and discussing how government policies can impact a country's microfinance sector. Finally, we explore the literature on the impact of microfinance, analysis using randomized controlled trials and other research methodologies, and review the criticisms of the modern microfinance movement. The course concludes with a capstone reading and discussion of where the microfinance industry is headed over the next decade, and how to prepare for career opportunities in the field. Prerequisite or Corequisite: Financial Decision-Making.

Prerequisite(s): SA.510.102[C] OR SA.310.722[C]

SA.510.114. Sustainable Finance: Application and Methods. 4 Credits.

This course aims to provide students with a set of quantitative tools and reasoning abilities that mirror those used by professional financial analysts, portfolio managers, and policymakers. While many of these skills will be universally applicable, this course grounds them in the application of addressing issues of sustainable finance from a global perspective. The course will focus on using the R programming language and Excel, to a lesser extent, as tools for transforming real-world data into actionable insights and conveying those insights in a manner consistent with the real-world job responsibilities of sustainable finance analysts.

Prerequisite(s): SA.510.102[C] OR SA.310.722[C]

SA.510.115. Public Sector Economics. 4 Credits.

The course analyzes both the role of the state in the economy, including its manifestation as a Welfare State, and the role played in the public sphere by civil society organizations. The first part deals with the theory of market failures and government failures, the theory of collective economic action, the economic theory of democracy, the analysis of tax systems. The second part of the course uses the concepts developed in the first part to analyze specific governmental institutions, expenditure programs and taxes in a comparative international perspective. These include health care (special attention will be devoted to the Covid-19 pandemic), social insurance, redistribution programs, education, the politics of institutional choice, government decentralization (federalism), political capitalism, the digital revolution and the labor market.

SA.510.116. Evolution of the World Economy. 4 Credits.

This course offers a very long-run view of the evolution of the world economy over the past five centuries, selecting the aspects which have contributed most to change over time and to the present day situation.

SA.510.117. Asian Economic Development. 4 Credits.

This course gives a survey of the Asian economic development experience over the past half-century, with a focus on its international dimensions. In addition to evaluating the source of the remarkable growth and development of the region, the course considers the many challenges that the region has and will continue to face, from the Asian Financial Crisis in 1997-98 to the backlash against international trade and climate change. It also looks at conflict and cooperation in the region in the 21st century.

SA.510.118. Cryptocurrencies and FinTech. 4 Credits.

This course is for students wishing to explore the world of cryptocurrencies and related Fintech innovations. The goal of the course is to analyze their characteristics, the enabling technological innovations, their economics and role in modern Finance, and potential applications. The course begins with a brief insight on the theory and history of money and Financial innovation. After providing some technical background on how cryptography works, the course studies the cryptocurrency Bitcoin and then moves to other cryptocurrencies or crypto platforms such as Ethereum or Cardano. It will also analyze stablecoins and Central Bank digital currencies. Students will gain an understanding of the economic, technical and public policy issues associated with blockchain technology, distributed ledgers and smart contracts.

SA.510.119. Theories and Models of Economic Development. 4 Credits.

This course provides an introduction to Development Economics, aiming to familiarize students with key economic concepts, theories and models underlying the basic process of economic growth and development. It takes an intuitive and non-technical approach, focused on the key concepts and arguments around economic growth and development, rather than on the more formal and technical details of econometric or theoretical models. The course will explore the big questions and challenges that affect the majority of the world's population, living in lower-income countries, such as: 1) Why do some countries grow more than others? 2) What are the root causes of raising inequality and what can be done about it? 3) Where can countries raise the revenue needed to fund their development goals? 4) How do people live on less than 2 dollars a day? 5) What can international aid to help countries develop, and does it work? The course takes a practical angle in showing how the relevant theories and models apply in the real world, based on empirical evidence.

SA.510.120. Decarbonising Energy: Historic Perspectives and Future Challenges. 4 Credits.

This course provides an overview of the transition from a fossil fuel reliant electricity system, to one with increasing levels of renewables and storage. Students will learn about how electricity markets work and how new technologies have changed the market from a contractual, regulatory, and physical perspective, with a specific focus on the solar, wind, storage, and hydrogen sub-sectors. Students will also be given a primer on how these and other new technologies and projects are developed and financed. The learnings of the class are combine into an end-of-semester simulation focused on building a portfolio of renewable technologies in an emerging market. The course is multi-disciplinary in nature and global in scope. When possible, the professor will also invite experts in the field – some of whom are SAIS alumni – to share their professional perspectives on topics that form part of the syllabus.

SA.510.121. European Economic Integration. 4 Credits.

Reviews the role of economic forces in the process of deeper European Economic Integration (EEI). The course will offer arguments to substantiate future policy making with an adequate conceptual background, placing each topic into the historical context of the last 70 years. The core of the course is devoted to the main areas of EEI: trade, agriculture, money and finance, industry, services, regional development and welfare, with special attention to the changes brought about by the 1992 Single Market, the 1999 Single Currency and the 2004-07 enlargement. The empirical analysis is framed within economists' theoretical frameworks on customs unions, economic convergence and polarization, the impact of technological innovations on labor markets and management styles, growing inequalities and welfare systems, and the impact of international political instability on migration flows. Special reference is made to the implications of Brexit and the consequences of war in Ukraine.

SA.510.122. European Financial Markets. 4 Credits.

The purpose of this course is to encourage students to develop a deeper understanding of European financial market integration. The course begins with the completion of the internal market in the late 1980s and ends with current efforts to form a European banking union. Along the way, it introduces both common institutions and distinctive national frameworks. It also looks at how regulations promulgated within Europe interact with those developed at the global level. Students should have a good understanding of Macroeconomics. Some background in international monetary theory and corporate finance would be advantageous but is not required.

SA.510.123. The Economies of Central Asia. 4 Credits.

Gives an analytical review of the economies of the Central Asian countries. After considering the geographical, cultural and historical basis for identifying a Central Asian region, focuses on the post-independence economies of Kazakhstan, the Kyrgyz Republic, Tajikistan, Turkmenistan and Uzbekistan and on the economic influence of the region's major natural resources (cotton, minerals, oil and gas). Examines regional integration and relations to neighboring (and other) economies. Special reference is made to the implications of changes in leadership since 2017, the role of improved China-EU connectivity, and implications of war in Ukraine.

SA.510.124. International Financial Crises. 4 Credits.

The course will provide students with a basic understanding of how political-economy and macro-financial constraints affect countries' vulnerability to financial crises. Exploring three decades of evidence, it will discuss the main drivers of currency, banking, and debt crises in emerging markets. The course will build upon the material covered in IE 2, or in a similar intermediate macroeconomics course, and requires familiarity with empirical analysis. Students are expected to participate actively preparing and discussing case studies.

Prerequisite(s): SA.630.721[C] OR SA.100.304[C]; IE2 or Macro Risk are prerequisites for this course;

SA.510.125. Cryptocurrencies, Money and The Financial System. 4 Credits.

This course is for students wishing to explore the world of cryptocurrencies and related fintech innovations. The goal of the course is to analyze their characteristics, the enabling technological innovations, their economics and role in modern finance, risks and potential applications. The course begins with the study of the cryptocurrency Bitcoin and then moves to the second most important crypto platform, Ethereum, and the innovation of smart contracts. It will also analyze stablecoins, Central Bank digital currencies and their potential impact on the financial system. The course ends with an analysis of some of the developments in DeFi, their risks and potential. Students will gain an understanding of the economic, technical and public policy issues associated with blockchain technology, distributed ledgers and smart contracts.

SA.510.126. International Economic Policy. 4 Credits.

This course examines macroeconomic policy in open economies. After covering the basic theoretical foundations on how monetary and fiscal policy should be conducted over the business cycle, we will analyze how such policies are actually conducted in practice and explore why. This is a hands-on course where students will be asked to gather data and perform an empirical investigation on how macroeconomic policies are carried out in their home countries.

Prerequisite(s): SA.310.724[C] OR SA.100.304[C]

SA.510.127. Sustainable Finance and Impact Investing. 4 Credits.

This course aims to equip students to analyze sustainable finance and impact investing and understand the range of current approaches being pursued. The class will be in seminar format and students will be expected to participate actively in class. There will be four main elements to assessment: 1. Classwork, reading, group-work and general participation, 2. A mid-term paper focusing on one of the areas covered in the first half of the course, with each student choosing a topic based on a list of questions, 3. Two group-work presentations. 4. A final paper focusing on one of the areas covered in the second half of the course, with each student choosing a topic based on a list of questions. By the end of the course, participants should be able to: Identify and understand how to assess, measure and report on critical environmental and social risks of private investment. Identify and assess key governance risks in managing private firms and investments. Describe and distinguish between different investment strategies in their approach to managing environmental, social and governance risks and impacts, across different asset classes. Describe the motivations of different classes of investors, and understand their constraints in pursuing different sustainable and impact investment strategies. Identify current practices and tools to manage, measure and report on positive environmental and social impacts of an investment portfolio. Critically evaluate theories of change of how private investment impacts the environment and society, both positively and negatively; and the relationship between financial returns and impact. Understand the historic evolution of investment markets and assess current trends and outlook with respect to environment, social and governance risks and impacts.

SA.510.128. Credit Markets & Credit Risk. 4 Credits.

Although the size of credit markets varies across countries, reflecting the level of economic development, its industrial structure and its regulatory regime, globally, credit markets are huge, surpassing by far equity markets as a source of finance for both the private and public sectors. McKinsey estimates that, in 2007, total global financial assets were \$225 trillion, of which only \$50 trillion was equity, the remainder represented various types of credit instruments. The recent Global Financial Crisis had a significant impact on credit markets, something that will be discussed repeatedly during the course. This course will examine credit markets globally, with a specific focus on understanding the particular nature of credit risk. After an overview and definitions, the mathematics of fixed income instruments will be covered. There will then follow two sections on private sector credit risk, one each for the real and banking sectors. A significant part of the course will then incorporate what has been learned in analyzing private sector credit into a discussion of sovereign credit risk.

Prerequisite(s): (SA.310.722[C] OR SA.510.102[C]) AND SA.999.301[C]

SA.510.129. Investments: From Theory to Practice. 4 Credits.

This course is designed to familiarize students with the theory and practice of investments. The goal is to provide not only “what” investments are but also “how” and “why” they perform, or sometimes do not perform, as expected. We will introduce what constitutes an investment and the different asset classes from which investment returns are derived and the financial ecosystem in which they operate. We will delve into most of the major assets classes in detail: equities, fixed income, derivatives and commodities—their characteristics, pricing / valuation, historical performance and application in a portfolio. We will then look at the dynamic tension between investment return and risk, also in theory and with relevant real-world examples. We will discuss the theory of modern portfolio management and create a model portfolio and measure its return over time. That portfolio knowledge will inform the different investment strategies utilized by asset managers today. We will examine the field of behavioral finance and the impact it has on biases and decision making. That will lead us into a deeper examination of investment management from a practitioner point of view and including periods of time when both theory and practice were exposed to crisis conditions. In addition, prominent subject matter experts from their respective specialties will address class either in-person or on Zoom. (Six guest lecturers over the 13 classes for roughly 30 minutes per class as well as additional time for Q and A).

SA.510.130. Advanced International Macroeconomics. 4 Credits.

This is an advanced course on open economy macroeconomics. The main purpose of the course is to cultivate and develop the ability to use formal theoretical models to interpret and understand the complex economic reality around us. Topics include current account determination, the relationship between saving and investment, imperfections in international capital markets, insurance mechanisms, the role of the real exchange rate, and fiscal policy.

Prerequisite(s): SA.100.304[C] OR SA.310.724[C]

SA.510.132. Environmental Economics. 4 Credits.

This course aims at providing the students with a broad overview of the economic concepts related to environmental problems. We focus on environmental policy-making and the practicalities of this sort of policies, both from the perspective of those implementing the policy, but also from the perspective of those facing new regulations as well as the political aspects involved. Lectures are organised around topics such as the science of climate change, social and economic impacts of climate change, market failure and government intervention, ethics, cost-benefit analysis and climate change, economic valuation of climate change impacts, integrated assessment models and the social cost of carbon, policy instruments in the European Union, inequality in climate responsibilities and impacts, political economy and climate policy, international environmental agreements, international aspects of climate policies (carbon leakage, carbon border adjustment, geoengineering).

SA.510.133. Private Capital in Emerging Markets. 4 Credits.

Provides a complete overview of the private capital markets industry in emerging and developing economies. Analyzes the rationale, strategy, and implementation of private investing, including private equity, venture capital, and impact investing. Examines the private capital fund structure, and the interests of fund investors (LPs) and fund managers (GPs) that drive investment decisions. Through case studies, explores challenges and opportunities for fund managers investing in emerging Asia, Africa, Latin America, and the Middle East. Provides students with basic valuation techniques for private investments. Participants will emerge with the insight and knowledge to pursue a career in the development finance industry or in a career that is influenced or impacted by the industry. Prerequisite: Corporate Finance or the equivalent with permission from the Professor.

Prerequisite(s): SA.510.102[C] OR SA.310.722[C]

SA.510.134. Topics in Development Economics. 4 Credits.

This course looks into what kinds of factors and policies can bring about good governance, understood as features of the politico-institutional environment—accountability, responsiveness, low corruption, effective management—that help us achieve development outcomes we care about—health, education, economic growth. There are many different perspectives on this issue, of course, but ours will be one based on data: how can we look at evidence to provide answers to our key question? The aim is that, by the end of the course, students will be capable of consuming, in an informed and critical way, the evidence provided by policy-relevant social science studies, as well as judging, as policy makers, what kinds of evidence are required to properly inform decisions. Throughout the course, we will be assessing the evidence by applying statistical concepts of internal validity and external validity: Is there compelling evidence of a causal effect? Does this evidence teach us something beyond its specific context? The course will be structured around a set of topics that illustrate potential drivers of good (or bad) governance: political representation, mass media, natural resources, ethnic diversity, social capital, corruption, and external interventions (foreign aid). Each topic will in turn be organized around one or two more specific questions, the evidence on which we will discuss. We will start our discussion of each question with a lecture discussing different pieces of evidence, and how to critically evaluate them. Prerequisites: IE I, IE II, Econometrics (all MIEF are eligible). Economic Development and/or Impact Evaluation in Development is also recommended but not required.

Prerequisite(s): (SA.100.303[C] AND SA.100.304[C] AND SA.100.401[C]) OR (SA.310.700[C] AND SA.310.701[C] AND SA.310.770[C])

SA.510.136. Money and Finance in the Modern World. 4 Credits.

This course presents and discusses the literature - both in economics and history - on financial and monetary history, especially of Europe and the United States, but also of developing countries, with a focus on the 19th and 20th centuries. In particular, we will discuss the interdependence of public debt and financial markets; the role of the banking system in financing the real economy; how financial crises are inherent to capitalism and have very important real-world consequences; and how institutions and politics influence the process of financial globalization. The goal of the course is to provide a long-term view of the major phenomena in financial economics, as well as a historical perspective on modern policy debates related to recent financial crises.

SA.510.137. Development Finance: Addressing Today's Challenges. 4 Credits.

The course explores how Development Finance Institutions (DFIs) and other financial ecosystem players support critical sectors in developing countries, including water and sanitation, climate change, and disruptive technology. Through case studies and practical examples, students will analyze how DFIs finance infrastructure, leverage innovative financial instruments like green bonds, blended finance and support technological innovations to foster sustainable development. The course emphasizes understanding financing instruments such as grants, debt, and equity while reviewing successful and failed projects globally. With a hands-on approach, it builds on prior finance knowledge and prepares students to critically assess DFIs' roles in global development. The course also equips students with practical skills to evaluate financial strategies that address climate challenges, water security, and technological advancements—key topics for professionals entering international finance and development policy sectors.

Prerequisite(s): (SA.510.102[C] OR SA.310.722[C]) OR (SA.510.103[C] OR SA.310.710[C]) or Students with a prior finance background may seek permission from the professors.

SA.510.138. Economics of Conflict. 4 Credits.**SA.510.139. Digital Transformation. 4 Credits.**

The digital economy has become an integral part of our global economic landscape, driven by digital goods and services that permeate multiple sectors. This course explores the fundamental concepts and historical evolution of the digital economy, highlighting key factors and technological milestones that have shaped its development. Through a comprehensive exploration, students will gain insight into how individuals and businesses interact in digital markets. They will also examine how these markets can be designed and regulated in an ever-evolving digital ecosystem. Topics covered include individual markets such as search engines, e-commerce platforms, the gig economy, and digital financial markets. In addition, emerging technologies such as data-driven decision making, big data analytics, blockchain, artificial intelligence, and machine learning will be explored in depth. By the end of the course, students will not only understand the dynamics of the digital economy, but will also be equipped with analytical tools to effectively navigate its complexities.

SA.510.140. Global Entrepreneurship. 4 Credits.

This course introduces students to scalable entrepreneurship. The approach uses case studies, group interaction, and presentations from experts in the field. Attention will be given to understanding the role of innovators, understanding the customer, how to build a compelling product, how to scale an enterprise and the process of creating a compelling start up plan and presentation for investors.

SA.510.141. Logic and Limits of Economic Justice. 4 Credits.

What is economic justice? What does economics have to do with ethics? And how should a society concerned with the wellbeing of its members choose between multiple 'equally efficient outcomes'? These are some of the main questions we'll be tackling in this course. One of John Maynard Keynes more famous quotes appears in the final pages of *The General Theory* and encapsulates the motivation behind this course. It goes, "the ideas of economists and political philosophers, both when they are right and when they are wrong, are more powerful than is commonly understood...Practical men, who believe themselves to be quite exempt from any intellectual influences, are usually the slaves of some defunct economist." While there's no doubt a bit of exaggeration in the above quote, it is true that at the core of the study of Economics as the 'science of scarce resource allocation', are value judgments, birthed from moral (and consequently political) philosophy, so deeply embedded, that we often, naively, erroneously and deleteriously, assume that they are not there at all. This course is, in part, an advanced introduction to welfare economics: the branch of economics concerned with understanding how to assess and improve wellbeing of members of society. It incorporates debates and insights from other fields of economics and philosophy and has influenced theory and practice in many fields of economics, including political economy, public economics, development economics, environmental economics, labor economics and feminist economics, to name a few. The goals of this course then are to ensure that by the end of it, you are able to understand, assess and critically examine the philosophical origins of contemporary economic theory and ideas, the debates among them and the implications of these theories and debates for considerations of welfare, equality, justice and freedom across a variety of economic events and policy topics.

SA.510.142. Labor Economics and Public Policy. 4 Credits.**SA.510.143. Europe in the World Economy. 4 Credits.**
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