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COURSES OFFERED IN ENGLISH AT FUDAN UNIVERSITY



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Courses offered in English at Fudan University in the 2010-2011 academic year are subject to change. Online updated access to course information can be found at:

<http://www.jwc.fudan.edu.cn>

Module I: Economics and Management

Course Code	Course Name	Credit
ECON 110022	Dynamics of Chinese Economy	2
ECON 110023	Financial Development in China	2
ECON 120003	Macroeconomics I	2
ECON 130012	Economics of Development	2
ECON 130043	International Taxation	2
ECON 130059	Urban Economics	2
ECON 130063	International Marketing	2
ECON 130159	Principles of Financial Economics	2
ECON 130161	Managerial Economics	2
ECON 130168	International Business Negotiation	2
ECON 130169	International Business Management	2
MANA130004	Financial Management	2
MANA130006	Marketing Management	2
PHYS 130076	Econophysics	2
POLI 110041	Contemporary Japanese Economy	2
SOCI 130039	Political Economy of China	2

Module II: History and Cultural Studies

Course Code	Course Name	Credit
CHIN 130030	Western Linguistics	2
CHIN 130129	Introduction to Canons of Western Aesthetics	2
HIST 110013	History of Modern China	2
HIST 130126	China: from Reform to Revolution	2
HIST 130135	Greek Mythology	2
HIST 130138	Topics on Westerners in China	2
HIST 130141	Chinese Civilization	2
ICES 110012	China: A General Survey	2
JOUR 110011	Chinese Media and Politics in the Context of Globalization	2
JOUR 119002	Interpersonal Communication across Cultures	2
JOUR 130065	Topics on Photography	2
PHIL 110020	Chinese Intellectual History: the Ancient Period	2
PHIL 110025	Introduction to Buddhism	2
PHIL 130004	Marxist Currents outside China	2

Module II: History and Cultural Studies

Course Code	Course Name	Credit
PHIL 130021	Philosophy of Religion	2
PHIL 130050	Philosophy of Psychology	2
PHIL 130070	The History and Thought of Judaism	2
PHIL 130092	Readings in Original Ethical Writings I	2
PHIL 130093	Readings in Original Ethical Writings II	2
SOCI 110020	Introduction to Chinese Society and Culture	2
SOCI 130004	Cultural Anthropology	2
SOCI 130018	Food and Culture	2
SOCI 130064	Globalization Studies	2
SOCI 130065	Development Studies	2
SOCI 130085	Chinese Culture and Commercial Practice	2
SOCI 130134	Debating Globalization	2
SOCI 130135	Shanghai in Comparative Perspective: Urban Research	2
SOCI 130136	Religion in Chinese Society	2

Module III: Legal Studies and Political Science

Course Code	Course Name	Credit
LAWS 120002	International Law	3
LAWS 130029	International Financial Law	3
LAWS 130036	International Investment Law	3
LAWS 130052	International Commercial Law	3
LAWS 130053	International Trust Law	3
LAWS 130054	Comparative Law	3
POLI 110033	History of Diplomacy in Modern China	2
POLI 110043	Political Development in Modern China	2
POLI 130013	Public Policy: A General Survey	2
POLI 130026	Western Theories of International Relations	2
POLI 130032	Politics and External Relations of the European Union	2
POLI 130063	International Organizations	2
POLI 130108	Identity and International Relations	2
POLI 130128	Comparative Politics	2
POLI 1300135	Classical Readings in International Politics	2
POLI 130136	Selected Readings of Western Reviews on Global Affairs	2

Module III: Legal Studies and Political Science

Course Code	Course Name	Credit
POLI 130137	Western Etiquette Culture	2
POLI 130138	Intercultural and International Communication	2
POLI 130141	Chinese Public Policy in Action	2
POLI 130142	Non-government Organizations	2

Module IV: Science and Technology

Course Code	Course Name	Credit
BIOL 120001	Introduction to Modern Biology	2
BIOL 130051	Scientific Methodology and Scientific Paper Writing	2
CHEM 120001	General Chemistry	2
CHEM 120002	Experiments in General Chemistry	2
CHEM 120003	Organic Chemistry	2
CHEM 120004	Experiments in Organic Chemistry	2
COMP 110029	New Perspectives on Computer Concepts	2
COMP 130008	Operating Systems	2
COMP 130011	Algorithm Design and Analysis	2
COMP130030	Pattern Recognition	2
ENVI 110010	Energy and Environment	2
INFO 130115	Principle of FPGA Architecture and its Applications	2
INFO 130258	Introduction to Parallel Computer Architectures	2
MATE 130053	Computational Materials Science	2
MATH120012	Calculus I	2
MECH 130024	Engineering Fluid Mechanics	2

Module IV: Science and Technology

Course Code	Course Name	Credit
MECH 130099	Mathematical Physiology	2
PHYS 120009	College Physics	3
PHYS 120010	College Physics Experiments	3
PHYS 130046	General Relativity	3
PHYS 130069	Quantum Field Theory	2
SOFT 130024	System Programming Design	2
SOFT 130030	Computability and Complexity Theory	2

Module I: Economics and Management

DYNAMICS OF CHINESE ECONOMY

ECON 110022 2 credits

This course attempts to give some explanations to so-called China's Miracle. It introduces the history of China's economic reform since 1978, illustrates the incentive effects on workers, firms, and local governments. It also points out the negative consequence of the incentive mechanism. The course helps students outside China better understand China's emergence and its potential role in the world economy.

FINANCIAL DEVELOPMENT IN CHINA

ECON 110023 2 credits

This course is an examination of economic growth and financial development in China, including how the financial system transforms. Students have the opportunity to learn the analysis of capital market, money market, monetary policies, as well as investment growth and RMB exchange rates.

MACROECONOMICS I

ECON 120003 2 credits

This course is an essential part of the theory systems of economics. It focuses on the operation of macro economy. It is conducted in tree parts: basic theories of macroeconomics, extension of the theory and discussion of the major issues concerned.

ECONOMICS OF DEVELOPMENT

ECON 130012 2 credits

Through this course, students are expected to understand the theoretical framework, research methods and analytical tools of economics of development. Students also have the opportunity to use these theories to analyze practical economic issues in China. This lays the foundation for their further exploration of the field.

INTERNATIONAL TAXATION

ECON 130043 2 credits

This course intends to help students understand the relevant Chinese taxation rules concerning taxation of international transactions, the principles of levying tax by other countries and the application of double taxation treaties. It is an introduction to international tax planning.

URBAN ECONOMICS

ECON 130059 2 credits

This course is a survey of urban economics. It includes introduction to urban economics, the agglomerative economy of the city, the location theory, the structure and its evolution of urban system, economic growth of the city, urban land utilization and its space structure, housing economics, urban traffic, social problems, and the development patterns of Chinese cities.

INTERNATIONAL MARKETING

ECON 130063 2 credits

This course provides a window on international marketing.

It includes macroscopic environmental analysis, microscopic environmental analysis, market research, market segmentation and positioning, products strategies, distribution strategies, pricing strategies, promotion strategies and marketing management.

PRINCIPLES OF FINANCIAL ECONOMICS

ECON 130159 2 credits

In this course, we study money and its role in an economy through studying simple economic models. The course covers the theories of money demand and supply, financial intermediation, the role of the central bank and monetary policies. These theories are then used as the basis for the discussion of the relationship between money growth and inflation, monetary stabilization policy, exchange rate policy, and the interaction between monetary and fiscal policy.

MANAGERIAL ECONOMICS

ECON 130161 2 credits

This course investigates how to direct scarce resources to manage cost effectively. It covers competitive markets, market power and imperfect markets. This course presents concepts, tools and models from managerial economics that practicing managers use. It aims to enhance students' analytical abilities of economic theories and logistical thinking.

INTERNATIONAL BUSINESS NEGOTIATION

ECON 130168 2 credits

This course provides an overview of international business negotiation styles and strategies, bargaining processes and dispute handling skills. It requires students' full and active participation in the classroom performance. Students are expected to perform a variety of tasks including discussion, reading, listening, case study, writing to pool all the knowledge they have with team workers. Team work is finalized in representative presentations which demands economic analytical ability as well as language skills.

INTERNATIONAL BUSINESS MANAGEMENT

ECON 130169 2 credits

This course is an exploration of themes including globalization, corporate strategy, corporate culture and marketing ethics. It requires students' full and active participation in the classroom performance. Students are expected to perform a variety of tasks such as discussion, reading, listening, case study, writing to pool all the knowledge they have with team workers. Team work is finalized in representative presentations which demands economic analytical ability as well as language skills.

FINANCIAL MANAGEMENT

MANA 130004 2 credits

This course introduces the fundamental financial theory with an emphasis on its applications to corporate financial management. The aim of the course is to provide students with a comprehensive understanding of the principles of corporate finance. It focuses on present value, capital

budgeting, project analysis, risk and return, payout policy, capital structure and opportunity cost of capital, as well as other important issues in corporate finance. After completing this course, students will be able to make investment and financing decisions given some necessary information.

MARKETING MANAGEMENT

MANA 130006 **2 credits**

This course offers a chance of learning fundamental marketing ideas from both theory and cases. It also discusses how to transfer these ideas or develop new thinking adapted to the situation of the emerge markets. It is committed to familiarizing students with mixed marketing strategies and developing their abilities of studying marketing situations, in particular, grasping the basic clue to the development of marketing settings and reaching the key points of the issues.

ECONOPHYSICS

PHYS 130076 **2 credits**

This is a new multidisciplinary course. It aims at the application of concepts and methodologies of physics to the research field of economics, in particular, finance and financial engineering. Integrating humanities and hard science, the course is intended to broaden students' minds, getting them aware of new trends in the multidisciplinary research and new approaches to complex problems. The course covers the structure of financial markets, stylized facts of price fluctuations, the modeling of price fluctuation and risk management, the physical model of financial markets, new approaches for

risk managements, the statistics of firm growths, and the distribution of income and wealth.

CONTEMPORARY JAPANESE ECONOMY

POLI 110041 2 credits

This course is a survey of the policy foundation of the development of contemporary Japanese economy. It also provides an overview of the complex process of developing under intricate domestic and foreign politic, economic circumstances. It includes a systematic introduction of the fast economic growth of Japan after World War II and the basic process and philosophy of the core economic system's generation, development and evolution.

POLITICAL ECONOMY OF CHINA

SOCI 130039 2 credits

This course provides a political economy perspective on the rapidly changing economy and society in contemporary China. It focuses on the impact of systemic and institutional requirements as well as policy strategies on the various dimensions of economic and social development in China from 1949 to the present.

Module II: History and Cultural Studies

WESTERN LINGUISTICS

CHIN 130030 2 credits

This course highlights the relation between linguistic forms, uses and the ecologies in which they are embedded. It will be of interest to students who are concerned with the interfaces between pragmatics, semantics and syntax. It introduces students to the major topics which have updated linguistic theories in the West: deixis, reference, presupposition, entailment, implicature, speech acts, politeness, figurativity, the ad hoc meaning construction, and polarity items.

INTRODUCTION TO CANONS

OF WESTERN AESTHETICS

CHIN 130129 2 credits

This course is intended to help students comprehend the western tradition in the theory of literature and art. Students are expected to read the representative books of western aesthetics and acquire an overview of the development of the aesthetical idea. They will also learn how to interpret various aesthetical texts with a proper methodology.

HISTORY OF MODERN CHINA

HIST 110013 2 credits

This course introduces some major themes of China's modern history. It examines the internal and external causes leading to the collapse of China's last dynasty, and

discusses the personalities and events that shaped China's entry into the 20th century. Then it traces the tumultuous history of China from 1911 when the Republic of China was set up to 1949 when the Communist Party of China rose to power.

CHINA: FROM REFORM TO REVOLUTION

HIST 130126 2 credits

This course introduces a series of reforms carried out by different social and political groups in 19th and early 20th century China, when the last imperial dynasty was in imminent danger of falling apart. The course also examines the international relations between China and other major countries during the first half of the 20th century, helping students understand the historical significance of events before the eve of revolutionary Republican era, and the discourse of China's modernization after the establishment of New China in 1949.

GREEK MYTHOLOGY

HIST 130135 2 credits

This course introduces some major Greek myths as recounted in great works of literature, from the epics of Homer and Hesiod through the Homeric Hymns to Athenian tragedy. Throughout the course, the emphasis is placed on those aspects of Greek culture in which myth played an important role, especially in religion, art, literature and politics, in order to understand the functions of these myths in their original contexts. Modern interpretations are discussed, whenever necessary, for a more in-depth study of these myths.

TOPICS ON WESTERNERS IN CHINA

HIST 130138 2 credits

This course introduces a variety of Europeans and North Americans who lived and worked in China from the 1500s to the early 20th century: missionaries, businessmen, journalists, photographers, academics, and others professionals. Why did they come to China? What did they do in China, and what was the significance of what they did? As foreigners, they have played major roles in the last a few centuries, which left a lot for us to explore.

CHINESE CIVILIZATION

HIST 130141 2 credits

This course introduces diverse achievements and distinctive characteristics of traditional Chinese civilization. It covers the history of China from the earliest times to early the 20 th century. It examines the main political, social, economic, religious and cultural development throughout the Chinese history. The course focuses on a variety of themes: the origin and evolution of a distinctive Chinese political system, the evolution of Confucianism and its role in Chinese history, the arrival and growth of Buddhism, the relation between China and the outside world, the economic growth in late imperial period and developments in art and literature.

CHINA: A GENERAL SURVEY

ICES 110012 2 credits

This course aims to help international students gain some background knowledge about China in history, geography, economy, education and social life. It is intended to help students enhance their communication skills and

life experience in China. Flexible teaching methods are used to fully arouse students' initiative and interest in the course. In-class teaching and extracurricular practice are combined.

CHINESE MEDIA AND POLITICS IN THE CONTEXT OF GLOBALIZATION

JOUR 110011 2 credits

This course introduces students to the background of China's political institution and culture and provides an overview of the relationship between China's media and politics in a global context. It is intended to help students acquire a broad perspective of China's political communication and gain familiarity with China's media system and its political consequences in globalization. Four general topics will be explored: media and China's revolution, media's role in China's political institution; trajectory of Media Reform, media and international relations.

INTERPERSONAL COMMUNICATION ACROSS CULTURES

JOUR 119002 2 credits

This course is intended to help students acquire a broad perspective of Chinese culture and the way it affects Chinese thinking and life. The course covers the components, principles and rules of the interpersonal communication process. Students learn to become skilled, effective communicators by applying book knowledge to interpersonal communication across cultures.

TOPICS ON PHOTOGRAPHY

JOUR 130065 2 credits

This course addresses social cultural meaning of photography and some practices of photography. The course is divided into three parts. The first part guides students to understand the social cultural meaning of photography; the second part shows students different styles of photography through learning the important photographers and their works on photography history; the third part instructs students to observe the society by doing some practices on documentary photography and helps students understand themselves through the tool of photography.

CHINESE INTELLECTUAL HISTORY:

THE ANCIENT PERIOD

PHIL 110020 2 credits

This course aims at giving a general account of Chinese traditional thoughts including Confucianism, Daoism, Monism and Legalism. These schools have had tremendous and lasting impact on the formation of the Chinese mind and will continue to shape the Chinese outlook on life in the future. Representative thinkers from each of these schools will be selected and introduced. In addition to philosophical analysis, historical as well as cultural factors contributing to the rise and development of the thoughts will be examined.

INTRODUCTION TO BUDDHISM

PHIL 110025 2 credits

This course is an introduction to Buddhist Doctrine with

a focus on its Indian origins, though all three scriptural traditions, namely South-East Asian (Pāli), East Asian (Chinese) and Central Asian (Tibetan) will somehow be covered. Students will learn the basics of Buddhist philosophy and religious doctrine, discussing the function and role of Buddhist monastery in the traditional Buddhist society. Buddhism in this course is studied both as a textual-philosophical tradition and as a living religion.

MARXIST CURRENTS OUTSIDE CHINA

PHIL 130004 **2 credits**

This course is designed to lead students into the area of western Marxism. It firstly aims to help students achieve a general understanding of the development of different currents of western Marxism, including the context of the origin of western Marxism, the problem-consciousness of different currents and their way to investigate problems. The course also helps students read some selected western Marxist texts and learn to explore western Marxist critique of modernity, the relationship between German idealism and Marx's philosophy, and the vital relevance of Marx's philosophy to the contemporary world.

PHILOSOPHY OF RELIGION

PHIL 130021 **2 credits**

This course mainly discusses the western philosophy of religion covering a variety of topics: the concept of God, God existence arguments, the religious language, religion and science, religious attitude to soul and death, diversity of religion, and religious dialogue. Students are expected to reflect on the essence and function of religion.

PHILOSOPHY OF PSYCHOLOGY

PHIL 130050 **2 credits**

The main purpose of this course is to provide a systematic survey of the philosophy of psychology, which is devoted to some philosophical reflections upon fundamental problems concerning empirical studies in psychology, for example, the status of folk psychology, the tenability of eliminative materialism as well as the nature of nationality.

THE HISTORY AND THOUGHT OF JUDAISM

PHIL 130070 **2 credits**

This course offers a general introduction to Judaism. It examines biblical and classical rabbinic sources concerning worship, holidays, and ideals. It also provides a survey of medieval and modern transformations of these aspects of Judaism, as well as major historical events that have shaped contemporary Jewish life. Through intense analysis of primary sources, students will understand how Jews have defined sacred time, sacred space, and religious leadership and their ideas. The course focuses on the dynamics of Judaism as a religious "tradition," in which innovation and change emerges through asserting continuity with the past.

READINGS IN ORIGINAL ETHICAL WRITINGS I

PHIL 130092 **2 credits**

This course initiates students into active learning with texts selected from western classical ethical writings. Through a close reading of these original texts, the course intends to introduce students to main ideas and concepts of ethics as well as various ways of argumentation. Students are expected to build up proficiency and skills for

reading philosophical English.

READINGS IN ORIGINAL ETHICAL WRITINGS II

PHIL 130093 2 credits

This course administers a careful reading of texts selected from contemporary western ethical writings of different schools. It covers metaethics, normative ethical theories and applied ethics as well. The course is intended to help student become acquainted with different ethical theories and important ethical issues of our time, and further prompt them to address real ethical problems they meet up with in their daily life from a philosophical perspective. Students are also expected to improve skills for reading philosophical texts and to build up proficiency for reading philosophical English as well.

INTRODUCTION TO

CHINESE SOCIETY AND CULTURE

SOCI 110020 2 credits

About a fifth of the world population lives in China. At the same time, as China has the longest continuous culture surviving from ancient times, globalization widely affects Chinese culture and society. Chinese culture and society is undergoing dramatic changes in the era of globalization and transformation. This course provides an introduction to Chinese society and culture in the Era of Globalization and Transformation from an East-West Perspective.

CULTURAL ANTHROPOLOGY

SOCI 130004 **2 credits**

As a critical introduction to the premises, vocabulary, and methods of the anthropological dialogue with people of other cultures, this course begins with basic anthropological understandings of culture and society, explores anthropological approaches to the way culture, language and society interact, and targets an intimate understanding of contemporary world affairs through anthropological lenses. The course gives a broad overview of contemporary cultural anthropology and its relationship to other social and behavioral sciences. It examines the ways in which cultural anthropologists pose questions, provide answers, and relate claims and evidence. At the same time, the course seeks some fair-minded insights into the collective lives of people who work, play, fight, speak, eat, and pray in ways different from our own.

FOOD AND CULTURE

SOCI 130018 **2 credits**

This course covers a variety of topics on food and culture including: food and power relationships, gift giving and reciprocity, food exchanges and the social construction of groups, food as a marker of social boundaries, food taboos and restrictions, food symbolism and identity, fasting and abstinence, food etiquette and manners, body image and the symbolism of human fat, standardization of food preferences, trans-nationalism and global food industries, changes in dietary patterns, famine and food emergencies, vegetarianism and alternative consumption regimes, trade barriers and global food provisioning, bioengineering and the invention and the commoditization of new food.

GLOBALIZATION STUDIES

SOCI 130064 2 credits

The course introduces the interplay between globalization of interactions (flows of material goods, of political influence, and of information) and people construction of social identities giving meaning and direction to their daily life. It examines how the revolution in information technology, in transportation, in the restructuring of capitalism, and in the development of means of mass destruction create new tensions in this interplay - transforming societies, challenging received ideologies, restructuring the distribution of material wealth, as well as dramatically changing lifestyles and consumption patterns.

DEVELOPMENT STUDIES

SOCI 130065 2 credits

This course examines the pace and strategy of Shanghai development as well as the social issues that arise from the pressures of development and the influence of globalization. Further, the course seeks further to explore how these issues are interrelated and how they reflect the greater scale of development in China. A sociological approach is adopted to help students understand both the roots of development "problems" and their consequences for individuals, communities, and societies. Students can learn about the local experience as well as proposed theoretical explanations and solutions concerning Shanghai's development issues.

CHINESE CULTURE AND COMMERCIAL PRACTICE

SOCI 130085 2 credits

Drawing upon an interdisciplinary approach, this course

addresses several major themes focusing on the dynamics of China's unprecedented socioeconomic transformations. Topics covered include the implications of globalization for everyday life in the local contexts, the cultural dimensions of international business, and the rise of entrepreneurship and consumerism in contemporary China. An important goal of this course is to provide a set of conceptual tools and a new perspective that can help students better understand the social world around them. Well-documented case studies and business ethnographies will be woven into in-class discussions of these major themes as a way of grounding theory in marketing practices.

DEBATING GLOBALIZATION

SOCI 130134 **2 credits**

This course examines recent theories of globalization from an anthropological perspective, with an emphasis on the transnational political, economic, and cultural structures that are transforming local societies throughout the world. Special attention is devoted to debates regarding cultural imperialism, the science and technology transfer, and Diasporas ethnicity. The anthropological perspective is largely a “bottom-up,” comparative examination of particular social processes, and is presented in the form of ethnographic monographs and articles that describe everyday life in detail. The main question to be addressed is the impact of transnational processes.

SHANGHAI IN COMPARATIVE PERSPECTIVE: URBAN RESEARCH

SOCI 130135 **2 credits**

The aim of the course is to provide students with Shanghai

discourse and facilitate their personal experience in the city as well as Hong Kong and Taipei. Students are expected to use their own first-hand observations, coupled with broad-based readings in a range of social science areas, to achieve their own understanding about Shanghai and the rapid pace of China.

RELIGION IN CHINESE SOCIETY

SOCI 130136 **2 credits**

This course introduces the sociological study of religion in Chinese society. The purpose of the course is to help students understand the significant role of Chinese religion in support of intellectual dialogue and mutual understanding between China and the West. The course further explores the similarities and contrasts in the dynamics of modernization as experienced in China and in the West, especially those spiritual convictions that lie at the heart of the Chinese heritage of popular belief and practice.

Module III: Legal Studies and Political Science

INTERNATIONAL LAW

LAWS 120002 3 credits

This course is designed to introduce the basic concepts, systems and principles of the international law as well as its significance. In the course, students are going to learn the establishing process and application of the international law.

INTERNATIONAL FINANCIAL LAW

LAWS 130029 3 credits

This course mainly introduces the international financial law system, international investment and payment practice. The course stresses on modern financial innovations and related legal systems.

INTERNATIONAL INVESTMENT LAW

LAWS 130036 3 credits

This course focuses on international treaties of investment and foreign laws regarding investment. It introduces aspects of international investment law including the legal sources, market admittance, legal protection, capital management and conflicts solving.

INTERNATIONAL COMMERCIAL LAW

LAWS 130052 3 credits

This course introduces the international business law

system from a comparative perspective, covering the general principles of international business law as well as the specific areas such as business organizations, foreign investment law, contract law, agency relationship, securities law and payment system. The course also examines the legal issues based on the Chinese business law comparing it with the other countries' business law.

INTERNATIONAL TRUST LAW

LAWS 130053 3 credits

Based on the common law of trust and comparing with the Chinese trust law system, this course examines the trust law system adopted by most countries in the world, covering the historical development, characteristics, advantages of the trust system, the creation of the trust and its defenses, and the specific trust forms, including express trusts, implied trusts, charitable trusts, and commercial trusts. Students will learn the general theories of trust law, and will have a chance to design a trust and draft trust instruments.

COMPARATIVE LAW

LAWS 130054 3 credits

This course is designed to introduce comparative law from the perspective of the jurisprudence, legal history, and legal systems. Further analysis will be based on specific legal systems of various countries, including constitutional law, business organization law, property law, etc. Both foreign and domestic legal experts in specific legal areas will be invited to be guest speakers in class, which is very helpful for students who plan to do legal research and writing.

HISTORY OF DIPLOMACY IN MODERN CHINA

POLI 110033 **2 credits**

This course is designed to cover basic historical facts, events, figures and doctrines about Chinese diplomacy. It is intended to provide an introductory survey of a diplomatic history ranging from 1949 when the People's Republic of China was established to the early 21st century. It examines major events, clues, and ideas in China's diplomacy at different stages of this particular period of the history. The course will help students achieve a better understanding and appreciation of Chinese perspective on contemporary issues related to international affairs.

POLITICAL DEVELOPMENT IN MODERN CHINA

POLI 110043 **2 credits**

This course provides a general survey of China's political change and concludes with political development theories based on China's experience. The content of this course includes market transition and political development, political institutions and political development, political culture of contemporary China, the grassroots democracy of modern China, the corruption problem of contemporary China, and the migrant problem with urbanization of modern China. The target of the course is to help students think and analyze independently some related problems with political theories.

PUBLIC POLICY: A GENERAL SURVEY

POLI 130013 **2 credits**

This course covers policy issue, agenda setting, formulation of public policy, implementation of public

policy, policy evaluation, policy making models and theory of public policy. In the course, students learn to analyze public policies intelligently, find the strengths and weaknesses in new media depictions of policy issues and understand how the study of public policy relates to political science and other social sciences.

WESTERN THEORIES OF INTERNATIONAL RELATIONS

POLI 130026 2 credits

This course is designed to assist students in acquiring knowledge about international relations theories and understanding of international politics from a theoretical perspective. It focuses on four theoretical paradigms – realism, liberalism, radicalism and constructivism, three levels - the individual, the state, and the international system, and major issues – international security, international political economy and globalization. This course requires students to understand various international relation theories and employ them to describe, explain, and predict international events.

POLITICS AND EXTERNAL RELATIONS OF THE EUROPEAN UNION

POLI 130032 2 credits

As an international actor with the highest level of integration in the world, the European Union consisting of 27 members is more and more important in the international community. This course focuses on the history of the EU's integration, form and process of the EU's institutions, theories regarding EU's integration such as functionalism, inter-governmentalism and federalism,

the EU's foreign policy and its roles in the international society.

INTERNATIONAL ORGANIZATIONS

POLI 130063 2 credits

This course introduces students to the study of international institutions by surveying a number of theoretical strands related to international cooperation. These theories will subsequently be used to explore the practice of existing international institutions.

The course is divided into three parts: the first part will cover basic theoretical approaches to international institutions, for example liberal institutionalism; the second part will explore the historical background, working practice and problems affecting existing institutions (both global and regional in scope); the last part will reconsider the function of these institutions.

IDENTITY AND INTERNATIONAL RELATIONS

POLI 130108 2 credits

This course introduces the basic concepts, issues, perspectives and debates in international relations. It intends to help students analyze identity politics in international relations with a certain theoretical perspective, find different views of identity politics in various speeches, critics and academic works, understand identity politics behind foreign policies, and compare different theoretical views in concrete international issues.

COMPARATIVE POLITICS

POLI 130128 2 credits

Starting with Aristotle, scholars have looked beyond their national borders to search for universal principles of politics. This course provides a summary of this ongoing effort. It is designed to introduce students to some of the major theories and research findings in comparative politics studies. It will help students think more systematically about politics and apply the theories discussed in class to particular countries of their interests.

CLASSICAL READINGS IN INTERNATIONAL POLITICS

POLI 1300135 2 credits

This course is intended to help students learn basic concepts and theories of international politics and relations and help them understand the origins and formation of various schools of international politics and relations. The selected readings cover a wide range of topics about fundamental issues and key elements in international politics. One of the major purposes of the course is to propel students to speculate about creating an academic framework of exploring international politics and relation with the Chinese characteristics while being immersed in reading these western masterpieces.

SELECTED READINGS OF WESTERN REVIEWS ON GLOBAL AFFAIRS

POLI 130136 2 credits

The course aims to help students understand the standpoints of western scholars and commentators on

hot global issues. Dynamic study is one of effective approaches to exploring international problems. Through the instruction of the course, students can learn from the western scholars advanced methodologies of doing academic work and appreciate their distinct perspectives, sharp comments and criticism. The textbook offers the essays written by eminent scholars and statesmen and published in world-renowned journals and periodicals.

WESTERN ETIQUETTE CULTURE

POLI 130137 **2 credits**

This course is designed to enhance students' knowledge of western etiquette culture and improve their communicative skills with westerners by relevant skill-building exercises and tasks. The course targets the enhancement of the knowledge and skills in the following aspects: western customs, etiquette of daily personal communication, etiquette of dining, etiquette of dressing and behavior in public places, small talk savvy, etc. The ultimate goal is to provide students with practical, culture-savvy, up-to-date information on western etiquette to enable them better communicate with westerners and help them face the world with confidence.

INTERCULTURAL AND INTERNATIONAL COMMUNICATION

POLI 130138 **2 credits**

This course is designed to enhance students' knowledge about other cultures and improve their communicative skills with people from different cultural backgrounds. The course targets the enhancement of the knowledge and skills in the following aspects: language and

verbal communication across cultures, understanding intercultural misunderstandings, nonverbal language in international communication, intercultural negotiation and managing conflicts. The ultimate goal is to provide students with opportunities to master theory of intercultural communication, increase their cultural knowledge and get them better prepared as global citizens.

CHINESE PUBLIC POLICY IN ACTION

POLI 130141 2 credits

This course is an introduction to the basic knowledge of public policy in China. It is composed of three parts: making policy, policy analysis and policy evaluation. It covers fiscal policy and monetary policy, education policy, health policy, technology policy, culture policy, social security policy, energy and environment policy.

NON-GOVERNMENT ORGANIZATIONS

POLI 130142 2 credits

This course introduces why the non-government organization comes into existence, how it develops, what its function is, and how it cooperates with government and private enterprise in order to resolve public problems.

Module IV: Science and Technology

INTRODUCTION TO MODERN BIOLOGY

BIOL 120001 **2 credits**

This course provides a basis for understanding fundamental axioms of modern biology, key concepts of biotechnology and current advances in the biological science. The topics covered include chemical basis of life, energy transformation, structure and function of cell, essential genetics and genomics, structure and function of plant and animal, origin and evolution of life, biological diversity, ecological concept and environment.

SCIENTIFIC METHODOLOGY AND

SCIENTIFIC PAPER WRITING

BIOL 130051 **2 credits**

This course provides a general guideline for students to learn how to formulate scientific questions and hypotheses, how to design a scientific experiment, and how to conduct scientific research. It strives to help students understand the concept and the general procedure of scientific paper writing and publication. The course covers the scientific methodology, the general model of scientific research, the general format and organization of a scientific paper and the way to handle different stages of the publication process.

GENERAL CHEMISTRY

CHEM 120001 2 credits

This course consists of two parts. The first part is an introduction of fundamental chemical principles, focusing on element properties, atomic and molecular structures, crystal structures and energy states. Based on these chemical principles, the second part introduces gas properties, solution reaction, thermodynamics, chemical equilibrium and kinetics. The course introduces properties of important compounds, as well as fundamental knowledge in the research fields of life sciences, medicine, materials, and energy.

EXPERIMENTS IN GENERAL CHEMISTRY

CHEM 120002 2 credits

This course introduces the basic aspects and characteristics of chemical science especially those of chemical experiments to elicit students' desire and interest in chemistry and train them in scientific thinking and methods. As the entry course of experimental techniques, this course has integrated the contents of inorganic chemistry, organic chemistry, analytical chemistry and physical chemistry.

ORGANIC CHEMISTRY

CHEM 120003 2 credits

This course covers fundamental topics of organic chemistry in detail, including nomenclature, structure, applications, properties, synthesis of various organic compounds. It also discusses the structure and properties of lipids, carbohydrates, nucleic acids and proteins. An introduction to mechanism of important organic reactions

is also provided. Since spectroscopy has become one of the most important tools for all areas of organic chemistry, students will also be instructed to use spectroscopic method to tackle a structural problem.

EXPERIMENTS IN ORGANIC CHEMISTRY

CHEM 120004 **2 credits**

This course is a general survey of basic laboratory techniques used in organic chemistry experiments. It is intended to help students develop proper laboratory etiquette, establish academic integrity and achieve a better understanding of fundamental knowledge in organic chemistry with first-hand laboratory experience. In addition to proficiency in basic laboratory techniques, this course offers training on data analysis capability based on experiment observations and mechanism understanding. The organic chemistry lab skills and problem solving skills acquired from this course will set a robust foothold for future study and research.

NEW PERSPECTIVES ON COMPUTER CONCEPTS

COMP 110029 **2 credits**

This course covers the most important topics in computer concepts, including computer hardware, software, operating systems and file management, the Internet, e-mail, the digital media and programming. No prior computer experience with these topics is required. With the successful completion of this course, students are expected to achieve a comprehensive understanding of the most important topics in computer concepts and the IT industry.

OPERATING SYSTEMS

COMP 130008 2 credits

This course tackles issues that influence the design of contemporary operating systems. It covers both the use of operating systems (externals) and their design and implementation (internals), focusing mainly on the internals. The course content include an overview of operating systems, operating system principles, concurrency, scheduling and dispatching, memory management, file systems, device management, real-time and embedded systems, distributed operating systems and system performance evaluation. Students have the opportunity to experiment with operating systems kernel.

ALGORITHM DESIGN AND ANALYSIS

COMP 130011 2 credits

As a core and fundamental course in computer technology, this course provides a comprehensive introduction to the modern study of computer algorithms. In addition, the complexity analysis of algorithms is conducted to help students understand the detailed differences between various algorithms for a certain problem in terms of time and space. The course targets the achievement of the following goals: understanding and mastering the fundamental algorithm design via a series of representative algorithms including graph algorithms and sorting algorithms; capable of logic reasoning, algorithms analysis as well as proof of the correctness of algorithms in terms of time and space complexity; applying algorithms to practical applications and real-world problems.

PATTERN RECOGNITION

COMP 130030 2 credits

This course provides an overview of a number of popular pattern recognition algorithms. It gives students the basic ideas and intuition behind pattern recognition methods as well as a better understanding of their working principles. Students are expected to learn to solve real problems with the presented algorithms.

ENERGY AND ENVIRONMENT

ENVI 110010 2 credits

This is an introductory course that covers the principles of energy, traditional fossil fuels, heat engines, energy crisis, renewable energy, nuclear energy, energy conservation, air pollution of different energy sources, and the global climate change caused by energy consumption. This course contains the latest advances in the field as well as basic concepts, resources, applications and problems of current interest. Students will be exposed to primary scientific literatures, scientific presentations and relevant exercises and tasks. By the successful completion of the course, students will have a better understanding of energy usage and its effects on environment.

PRINCIPLE OF FPGA ARCHITECTURE

AND ITS APPLICATIONS

INFO 130115 2 credits

The prerequisites for this course are Principles of Digital Integrated Circuit Design or Digital Circuit and System. Students also need to know how to write basic HDL (hardware description language) code and C programming

files. Students will learn the recent development of system-level FPGA devices, design methodology and embedded system applications.

INTRODUCTION TO PARALLEL COMPUTER ARCHITECTURES

INFO 130258 2 credits

This course is designed to teach students the basics of parallel computer architectures, at the same time show students the state-of-art progress in this field. It covers the major parallel processor issues including the major interconnect topologies, shared-memory addressing methodology, and its cache coherence and synchronization issues. Some message-passing architecture issues will also be discussed.

COMPUTATIONAL MATERIALS SCIENCE

MATE 130053 2 credits

This course provides some basic knowledge about computer simulations enabling students to model, understand and predict the properties of real materials. Specific topics include: density functional theory and the total-energy pseudo potential method; geometry optimization and molecular dynamics; band structure calculation and GW approximation and transport properties. The course employs case studies of advanced materials and nanotechnology. Basic theory will be interwoven with hand on tutorial for codes and step by step practical instruction. The ultimate goal is to elevate students to a level where they can appreciate modern work on materials property calculation and can carry out a first principle calculation by themselves.

CALCULUS I

MATH120012 **2 credits**

This introductory course presents the differential calculus of elementary functions of a single real variable: the rational, trigonometric and exponential functions and their inverses, various applications via the Mean Value Theorem, and an introduction to the integral calculus.

ENGINEERING FLUID MECHANICS

MECH 130024 **2 credits**

This is an important basic course for undergraduates specializing in engineering including power and energy, aviation, environment, heating and ventilation, machinery. The content of the course encompasses fluid properties, basic theory and common methods of fluid mechanics, analytical and solving process of five kinds of special flow subjects, and knowledge of engineering applications.

MATHEMATICAL PHYSIOLOGY

MECH 130099 **2 credits**

This course aims to build understanding of the workings of the human body by synthesizing a coherent description of the physiological background with realistic mathematical and mechanical models. The major content of this course includes human blood circulatory system, blood rheology, a 1D network of arterial tree and lumped model, 1D linear wave propagation theory, pulsatile flow in arteries and 3D-1D coupled models in hemodynamic simulation.

COLLEGE PHYSICS

PHYS 120009 3 credits

Physics is a cornerstone of modern science and technology. Physics studies the fundamental forces behind natural phenomena, and seeks universal laws governing the material world. Therefore, physics is a major basis for understanding the inorganic world as well as the biological world including the human body. The application of physics to biomedical and clinical sciences has produced not only new knowledge but also numerous powerful techniques for modern hospitals. This course covers major contents of college-level physics and also introduces several advanced medical physics topics. It is intended to help students develop a comprehensive and quantitative understanding of physics.

COLLEGE PHYSICS EXPERIMENTS

PHYS 120010 3 credits

The main purpose of this course is to augment and supplement the learning and understanding of basic physical principles, and to acquire basic techniques for handling practical problems.

GENERAL RELATIVITY

PHYS 130046 3 credits

General Relativity is the foundation of modern physics. This course provides students with the basic concepts and theoretical tools of general relativity, together with the basic knowledge of relativistic astrophysics. The course content includes special relativity and flat space time, manifolds, curvature, gravitation, weak fields and gravitational radiation, the Schwarzschild Solution and

Black Holes.

QUANTUM FIELD THEORY

PHYS 130069 2 credits

This is an introductory course on quantum field theory which is the foundation of modern theoretical physics. It is an essential subject for both particle physics and condensed matter physics. This course is designed to provide the basic concepts and methods of quantum field theory, and pave the way for further studies and researches of various directions. It is intended for senior undergraduates who are curious about quantum field theory and desire to understand physics on a unified and more advanced level.

SYSTEM PROGRAMMING DESIGN

SOFT 130024 2 credits

The aim of this course is to explain the operating system mechanism and interface, and how to use the knowledge to construct a system level program. The factors affecting the correctness and performance of programs will also be discussed. The course content covers programming on UNIX platform, Linux device drive development, parallel programming theory and open MP programming.

COMPUTABILITY AND COMPLEXITY THEORY

SOFT 130030 2 credits

This course is an introduction to the theory of computing. It first introduces Turing machines, the most powerful machine model known, and explore their computational

limits. Then it turns to fundamental complexity theory including P, NP, PSPACE, and NL.

COURSES OFFERED IN ENGLISH AT FUDAN UNIVERSITY



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Courses offered in English at Fudan University in the 2010-2011 academic year are subject to change. Online updated access to course information can be found at:

<http://www.jwc.fudan.edu.cn>

Module I: Economics and Management

Course Code	Course Name	Credit
ECON 110022	Dynamics of Chinese Economy	2
ECON 110023	Financial Development in China	2
ECON 120003	Macroeconomics I	2
ECON 130012	Economics of Development	2
ECON 130043	International Taxation	2
ECON 130059	Urban Economics	2
ECON 130063	International Marketing	2
ECON 130159	Principles of Financial Economics	2
ECON 130161	Managerial Economics	2
ECON 130168	International Business Negotiation	2
ECON 130169	International Business Management	2
MANA130004	Financial Management	2
MANA130006	Marketing Management	2
PHYS 130076	Econophysics	2
POLI 110041	Contemporary Japanese Economy	2
SOCI 130039	Political Economy of China	2

Module II: History and Cultural Studies

Course Code	Course Name	Credit
CHIN 130030	Western Linguistics	2
CHIN 130129	Introduction to Canons of Western Aesthetics	2
HIST 110013	History of Modern China	2
HIST 130126	China: from Reform to Revolution	2
HIST 130135	Greek Mythology	2
HIST 130138	Topics on Westerners in China	2
HIST 130141	Chinese Civilization	2
ICES 110012	China: A General Survey	2
JOUR 110011	Chinese Media and Politics in the Context of Globalization	2
JOUR 119002	Interpersonal Communication across Cultures	2
JOUR 130065	Topics on Photography	2
PHIL 110020	Chinese Intellectual History: the Ancient Period	2
PHIL 110025	Introduction to Buddhism	2
PHIL 130004	Marxist Currents outside China	2

Module II: History and Cultural Studies

Course Code	Course Name	Credit
PHIL 130021	Philosophy of Religion	2
PHIL 130050	Philosophy of Psychology	2
PHIL 130070	The History and Thought of Judaism	2
PHIL 130092	Readings in Original Ethical Writings I	2
PHIL 130093	Readings in Original Ethical Writings II	2
SOCI 110020	Introduction to Chinese Society and Culture	2
SOCI 130004	Cultural Anthropology	2
SOCI 130018	Food and Culture	2
SOCI 130064	Globalization Studies	2
SOCI 130065	Development Studies	2
SOCI 130085	Chinese Culture and Commercial Practice	2
SOCI 130134	Debating Globalization	2
SOCI 130135	Shanghai in Comparative Perspective: Urban Research	2
SOCI 130136	Religion in Chinese Society	2

Module III: Legal Studies and Political Science

Course Code	Course Name	Credit
LAWS 120002	International Law	3
LAWS 130029	International Financial Law	3
LAWS 130036	International Investment Law	3
LAWS 130052	International Commercial Law	3
LAWS 130053	International Trust Law	3
LAWS 130054	Comparative Law	3
POLI 110033	History of Diplomacy in Modern China	2
POLI 110043	Political Development in Modern China	2
POLI 130013	Public Policy: A General Survey	2
POLI 130026	Western Theories of International Relations	2
POLI 130032	Politics and External Relations of the European Union	2
POLI 130063	International Organizations	2
POLI 130108	Identity and International Relations	2
POLI 130128	Comparative Politics	2
POLI 1300135	Classical Readings in International Politics	2
POLI 130136	Selected Readings of Western Reviews on Global Affairs	2

Module III: Legal Studies and Political Science

Course Code	Course Name	Credit
POLI 130137	Western Etiquette Culture	2
POLI 130138	Intercultural and International Communication	2
POLI 130141	Chinese Public Policy in Action	2
POLI 130142	Non-government Organizations	2

Module IV: Science and Technology

Course Code	Course Name	Credit
BIOL 120001	Introduction to Modern Biology	2
BIOL 130051	Scientific Methodology and Scientific Paper Writing	2
CHEM 120001	General Chemistry	2
CHEM 120002	Experiments in General Chemistry	2
CHEM 120003	Organic Chemistry	2
CHEM 120004	Experiments in Organic Chemistry	2
COMP 110029	New Perspectives on Computer Concepts	2
COMP 130008	Operating Systems	2
COMP 130011	Algorithm Design and Analysis	2
COMP130030	Pattern Recognition	2
ENVI 110010	Energy and Environment	2
INFO 130115	Principle of FPGA Architecture and its Applications	2
INFO 130258	Introduction to Parallel Computer Architectures	2
MATE 130053	Computational Materials Science	2
MATH120012	Calculus I	2
MECH 130024	Engineering Fluid Mechanics	2

Module IV: Science and Technology

Course Code	Course Name	Credit
MECH 130099	Mathematical Physiology	2
PHYS 120009	College Physics	3
PHYS 120010	College Physics Experiments	3
PHYS 130046	General Relativity	3
PHYS 130069	Quantum Field Theory	2
SOFT 130024	System Programming Design	2
SOFT 130030	Computability and Complexity Theory	2

Module I: Economics and Management

DYNAMICS OF CHINESE ECONOMY

ECON 110022 2 credits

This course attempts to give some explanations to so-called China's Miracle. It introduces the history of China's economic reform since 1978, illustrates the incentive effects on workers, firms, and local governments. It also points out the negative consequence of the incentive mechanism. The course helps students outside China better understand China's emergence and its potential role in the world economy.

FINANCIAL DEVELOPMENT IN CHINA

ECON 110023 2 credits

This course is an examination of economic growth and financial development in China, including how the financial system transforms. Students have the opportunity to learn the analysis of capital market, money market, monetary policies, as well as investment growth and RMB exchange rates.

MACROECONOMICS I

ECON 120003 2 credits

This course is an essential part of the theory systems of economics. It focuses on the operation of macro economy. It is conducted in tree parts: basic theories of macroeconomics, extension of the theory and discussion of the major issues concerned.

ECONOMICS OF DEVELOPMENT

ECON 130012 2 credits

Through this course, students are expected to understand the theoretical framework, research methods and analytical tools of economics of development. Students also have the opportunity to use these theories to analyze practical economic issues in China. This lays the foundation for their further exploration of the field.

INTERNATIONAL TAXATION

ECON 130043 2 credits

This course intends to help students understand the relevant Chinese taxation rules concerning taxation of international transactions, the principles of levying tax by other countries and the application of double taxation treaties. It is an introduction to international tax planning.

URBAN ECONOMICS

ECON 130059 2 credits

This course is a survey of urban economics. It includes introduction to urban economics, the agglomerative economy of the city, the location theory, the structure and its evolution of urban system, economic growth of the city, urban land utilization and its space structure, housing economics, urban traffic, social problems, and the development patterns of Chinese cities.

INTERNATIONAL MARKETING

ECON 130063 2 credits

This course provides a window on international marketing.

It includes macroscopic environmental analysis, microscopic environmental analysis, market research, market segmentation and positioning, products strategies, distribution strategies, pricing strategies, promotion strategies and marketing management.

PRINCIPLES OF FINANCIAL ECONOMICS

ECON 130159 2 credits

In this course, we study money and its role in an economy through studying simple economic models. The course covers the theories of money demand and supply, financial intermediation, the role of the central bank and monetary policies. These theories are then used as the basis for the discussion of the relationship between money growth and inflation, monetary stabilization policy, exchange rate policy, and the interaction between monetary and fiscal policy.

MANAGERIAL ECONOMICS

ECON 130161 2 credits

This course investigates how to direct scarce resources to manage cost effectively. It covers competitive markets, market power and imperfect markets. This course presents concepts, tools and models from managerial economics that practicing managers use. It aims to enhance students' analytical abilities of economic theories and logistical thinking.

INTERNATIONAL BUSINESS NEGOTIATION

ECON 130168 2 credits

This course provides an overview of international business negotiation styles and strategies, bargaining processes and dispute handling skills. It requires students' full and active participation in the classroom performance. Students are expected to perform a variety of tasks including discussion, reading, listening, case study, writing to pool all the knowledge they have with team workers. Team work is finalized in representative presentations which demands economic analytical ability as well as language skills.

INTERNATIONAL BUSINESS MANAGEMENT

ECON 130169 2 credits

This course is an exploration of themes including globalization, corporate strategy, corporate culture and marketing ethics. It requires students' full and active participation in the classroom performance. Students are expected to perform a variety of tasks such as discussion, reading, listening, case study, writing to pool all the knowledge they have with team workers. Team work is finalized in representative presentations which demands economic analytical ability as well as language skills.

FINANCIAL MANAGEMENT

MANA 130004 2 credits

This course introduces the fundamental financial theory with an emphasis on its applications to corporate financial management. The aim of the course is to provide students with a comprehensive understanding of the principles of corporate finance. It focuses on present value, capital

budgeting, project analysis, risk and return, payout policy, capital structure and opportunity cost of capital, as well as other important issues in corporate finance. After completing this course, students will be able to make investment and financing decisions given some necessary information.

MARKETING MANAGEMENT

MANA 130006 **2 credits**

This course offers a chance of learning fundamental marketing ideas from both theory and cases. It also discusses how to transfer these ideas or develop new thinking adapted to the situation of the emerge markets. It is committed to familiarizing students with mixed marketing strategies and developing their abilities of studying marketing situations, in particular, grasping the basic clue to the development of marketing settings and reaching the key points of the issues.

ECONOPHYSICS

PHYS 130076 **2 credits**

This is a new multidisciplinary course. It aims at the application of concepts and methodologies of physics to the research field of economics, in particular, finance and financial engineering. Integrating humanities and hard science, the course is intended to broaden students' minds, getting them aware of new trends in the multidisciplinary research and new approaches to complex problems. The course covers the structure of financial markets, stylized facts of price fluctuations, the modeling of price fluctuation and risk management, the physical model of financial markets, new approaches for

risk managements, the statistics of firm growths, and the distribution of income and wealth.

CONTEMPORARY JAPANESE ECONOMY

POLI 110041 2 credits

This course is a survey of the policy foundation of the development of contemporary Japanese economy. It also provides an overview of the complex process of developing under intricate domestic and foreign politic, economic circumstances. It includes a systematic introduction of the fast economic growth of Japan after World War II and the basic process and philosophy of the core economic system's generation, development and evolution.

POLITICAL ECONOMY OF CHINA

SOCI 130039 2 credits

This course provides a political economy perspective on the rapidly changing economy and society in contemporary China. It focuses on the impact of systemic and institutional requirements as well as policy strategies on the various dimensions of economic and social development in China from 1949 to the present.

Module II: History and Cultural Studies

WESTERN LINGUISTICS

CHIN 130030 2 credits

This course highlights the relation between linguistic forms, uses and the ecologies in which they are embedded. It will be of interest to students who are concerned with the interfaces between pragmatics, semantics and syntax. It introduces students to the major topics which have updated linguistic theories in the West: deixis, reference, presupposition, entailment, implicature, speech acts, politeness, figurativity, the ad hoc meaning construction, and polarity items.

INTRODUCTION TO CANONS

OF WESTERN AESTHETICS

CHIN 130129 2 credits

This course is intended to help students comprehend the western tradition in the theory of literature and art. Students are expected to read the representative books of western aesthetics and acquire an overview of the development of the aesthetical idea. They will also learn how to interpret various aesthetical texts with a proper methodology.

HISTORY OF MODERN CHINA

HIST 110013 2 credits

This course introduces some major themes of China's modern history. It examines the internal and external causes leading to the collapse of China's last dynasty, and

discusses the personalities and events that shaped China's entry into the 20th century. Then it traces the tumultuous history of China from 1911 when the Republic of China was set up to 1949 when the Communist Party of China rose to power.

CHINA: FROM REFORM TO REVOLUTION

HIST 130126 2 credits

This course introduces a series of reforms carried out by different social and political groups in 19th and early 20th century China, when the last imperial dynasty was in imminent danger of falling apart. The course also examines the international relations between China and other major countries during the first half of the 20th century, helping students understand the historical significance of events before the eve of revolutionary Republican era, and the discourse of China's modernization after the establishment of New China in 1949.

GREEK MYTHOLOGY

HIST 130135 2 credits

This course introduces some major Greek myths as recounted in great works of literature, from the epics of Homer and Hesiod through the Homeric Hymns to Athenian tragedy. Throughout the course, the emphasis is placed on those aspects of Greek culture in which myth played an important role, especially in religion, art, literature and politics, in order to understand the functions of these myths in their original contexts. Modern interpretations are discussed, whenever necessary, for a more in-depth study of these myths.

TOPICS ON WESTERNERS IN CHINA

HIST 130138 2 credits

This course introduces a variety of Europeans and North Americans who lived and worked in China from the 1500s to the early 20th century: missionaries, businessmen, journalists, photographers, academics, and others professionals. Why did they come to China? What did they do in China, and what was the significance of what they did? As foreigners, they have played major roles in the last a few centuries, which left a lot for us to explore.

CHINESE CIVILIZATION

HIST 130141 2 credits

This course introduces diverse achievements and distinctive characteristics of traditional Chinese civilization. It covers the history of China from the earliest times to early the 20 th century. It examines the main political, social, economic, religious and cultural development throughout the Chinese history. The course focuses on a variety of themes: the origin and evolution of a distinctive Chinese political system, the evolution of Confucianism and its role in Chinese history, the arrival and growth of Buddhism, the relation between China and the outside world, the economic growth in late imperial period and developments in art and literature.

CHINA: A GENERAL SURVEY

ICES 110012 2 credits

This course aims to help international students gain some background knowledge about China in history, geography, economy, education and social life. It is intended to help students enhance their communication skills and

life experience in China. Flexible teaching methods are used to fully arouse students' initiative and interest in the course. In-class teaching and extracurricular practice are combined.

CHINESE MEDIA AND POLITICS IN THE CONTEXT OF GLOBALIZATION

JOUR 110011 2 credits

This course introduces students to the background of China's political institution and culture and provides an overview of the relationship between China's media and politics in a global context. It is intended to help students acquire a broad perspective of China's political communication and gain familiarity with China's media system and its political consequences in globalization. Four general topics will be explored: media and China's revolution, media's role in China's political institution; trajectory of Media Reform, media and international relations.

INTERPERSONAL COMMUNICATION ACROSS CULTURES

JOUR 119002 2 credits

This course is intended to help students acquire a broad perspective of Chinese culture and the way it affects Chinese thinking and life. The course covers the components, principles and rules of the interpersonal communication process. Students learn to become skilled, effective communicators by applying book knowledge to interpersonal communication across cultures.

TOPICS ON PHOTOGRAPHY

JOUR 130065 2 credits

This course addresses social cultural meaning of photography and some practices of photography. The course is divided into three parts. The first part guides students to understand the social cultural meaning of photography; the second part shows students different styles of photography through learning the important photographers and their works on photography history; the third part instructs students to observe the society by doing some practices on documentary photography and helps students understand themselves through the tool of photography.

CHINESE INTELLECTUAL HISTORY:

THE ANCIENT PERIOD

PHIL 110020 2 credits

This course aims at giving a general account of Chinese traditional thoughts including Confucianism, Daoism, Monism and Legalism. These schools have had tremendous and lasting impact on the formation of the Chinese mind and will continue to shape the Chinese outlook on life in the future. Representative thinkers from each of these schools will be selected and introduced. In addition to philosophical analysis, historical as well as cultural factors contributing to the rise and development of the thoughts will be examined.

INTRODUCTION TO BUDDHISM

PHIL 110025 2 credits

This course is an introduction to Buddhist Doctrine with

a focus on its Indian origins, though all three scriptural traditions, namely South-East Asian (Pāli), East Asian (Chinese) and Central Asian (Tibetan) will somehow be covered. Students will learn the basics of Buddhist philosophy and religious doctrine, discussing the function and role of Buddhist monastery in the traditional Buddhist society. Buddhism in this course is studied both as a textual-philosophical tradition and as a living religion.

MARXIST CURRENTS OUTSIDE CHINA

PHIL 130004 **2 credits**

This course is designed to lead students into the area of western Marxism. It firstly aims to help students achieve a general understanding of the development of different currents of western Marxism, including the context of the origin of western Marxism, the problem-consciousness of different currents and their way to investigate problems. The course also helps students read some selected western Marxist texts and learn to explore western Marxist critique of modernity, the relationship between German idealism and Marx's philosophy, and the vital relevance of Marx's philosophy to the contemporary world.

PHILOSOPHY OF RELIGION

PHIL 130021 **2 credits**

This course mainly discusses the western philosophy of religion covering a variety of topics: the concept of God, God existence arguments, the religious language, religion and science, religious attitude to soul and death, diversity of religion, and religious dialogue. Students are expected to reflect on the essence and function of religion.

PHILOSOPHY OF PSYCHOLOGY

PHIL 130050 **2 credits**

The main purpose of this course is to provide a systematic survey of the philosophy of psychology, which is devoted to some philosophical reflections upon fundamental problems concerning empirical studies in psychology, for example, the status of folk psychology, the tenability of eliminative materialism as well as the nature of nationality.

THE HISTORY AND THOUGHT OF JUDAISM

PHIL 130070 **2 credits**

This course offers a general introduction to Judaism. It examines biblical and classical rabbinic sources concerning worship, holidays, and ideals. It also provides a survey of medieval and modern transformations of these aspects of Judaism, as well as major historical events that have shaped contemporary Jewish life. Through intense analysis of primary sources, students will understand how Jews have defined sacred time, sacred space, and religious leadership and their ideas. The course focuses on the dynamics of Judaism as a religious "tradition," in which innovation and change emerges through asserting continuity with the past.

READINGS IN ORIGINAL ETHICAL WRITINGS I

PHIL 130092 **2 credits**

This course initiates students into active learning with texts selected from western classical ethical writings. Through a close reading of these original texts, the course intends to introduce students to main ideas and concepts of ethics as well as various ways of argumentation. Students are expected to build up proficiency and skills for

reading philosophical English.

READINGS IN ORIGINAL ETHICAL WRITINGS II

PHIL 130093 2 credits

This course administers a careful reading of texts selected from contemporary western ethical writings of different schools. It covers metaethics, normative ethical theories and applied ethics as well. The course is intended to help student become acquainted with different ethical theories and important ethical issues of our time, and further prompt them to address real ethical problems they meet up with in their daily life from a philosophical perspective. Students are also expected to improve skills for reading philosophical texts and to build up proficiency for reading philosophical English as well.

INTRODUCTION TO

CHINESE SOCIETY AND CULTURE

SOCI 110020 2 credits

About a fifth of the world population lives in China. At the same time, as China has the longest continuous culture surviving from ancient times, globalization widely affects Chinese culture and society. Chinese culture and society is undergoing dramatic changes in the era of globalization and transformation. This course provides an introduction to Chinese society and culture in the Era of Globalization and Transformation from an East-West Perspective.

CULTURAL ANTHROPOLOGY

SOCI 130004 **2 credits**

As a critical introduction to the premises, vocabulary, and methods of the anthropological dialogue with people of other cultures, this course begins with basic anthropological understandings of culture and society, explores anthropological approaches to the way culture, language and society interact, and targets an intimate understanding of contemporary world affairs through anthropological lenses. The course gives a broad overview of contemporary cultural anthropology and its relationship to other social and behavioral sciences. It examines the ways in which cultural anthropologists pose questions, provide answers, and relate claims and evidence. At the same time, the course seeks some fair-minded insights into the collective lives of people who work, play, fight, speak, eat, and pray in ways different from our own.

FOOD AND CULTURE

SOCI 130018 **2 credits**

This course covers a variety of topics on food and culture including: food and power relationships, gift giving and reciprocity, food exchanges and the social construction of groups, food as a marker of social boundaries, food taboos and restrictions, food symbolism and identity, fasting and abstinence, food etiquette and manners, body image and the symbolism of human fat, standardization of food preferences, trans-nationalism and global food industries, changes in dietary patterns, famine and food emergencies, vegetarianism and alternative consumption regimes, trade barriers and global food provisioning, bioengineering and the invention and the commoditization of new food.

GLOBALIZATION STUDIES

SOCI 130064 2 credits

The course introduces the interplay between globalization of interactions (flows of material goods, of political influence, and of information) and people construction of social identities giving meaning and direction to their daily life. It examines how the revolution in information technology, in transportation, in the restructuring of capitalism, and in the development of means of mass destruction create new tensions in this interplay - transforming societies, challenging received ideologies, restructuring the distribution of material wealth, as well as dramatically changing lifestyles and consumption patterns.

DEVELOPMENT STUDIES

SOCI 130065 2 credits

This course examines the pace and strategy of Shanghai development as well as the social issues that arise from the pressures of development and the influence of globalization. Further, the course seeks further to explore how these issues are interrelated and how they reflect the greater scale of development in China. A sociological approach is adopted to help students understand both the roots of development "problems" and their consequences for individuals, communities, and societies. Students can learn about the local experience as well as proposed theoretical explanations and solutions concerning Shanghai's development issues.

CHINESE CULTURE AND COMMERCIAL PRACTICE

SOCI 130085 2 credits

Drawing upon an interdisciplinary approach, this course

addresses several major themes focusing on the dynamics of China's unprecedented socioeconomic transformations. Topics covered include the implications of globalization for everyday life in the local contexts, the cultural dimensions of international business, and the rise of entrepreneurship and consumerism in contemporary China. An important goal of this course is to provide a set of conceptual tools and a new perspective that can help students better understand the social world around them. Well-documented case studies and business ethnographies will be woven into in-class discussions of these major themes as a way of grounding theory in marketing practices.

DEBATING GLOBALIZATION

SOCI 130134 2 credits

This course examines recent theories of globalization from an anthropological perspective, with an emphasis on the transnational political, economic, and cultural structures that are transforming local societies throughout the world. Special attention is devoted to debates regarding cultural imperialism, the science and technology transfer, and Diasporas ethnicity. The anthropological perspective is largely a “bottom-up,” comparative examination of particular social processes, and is presented in the form of ethnographic monographs and articles that describe everyday life in detail. The main question to be addressed is the impact of transnational processes.

SHANGHAI IN COMPARATIVE PERSPECTIVE: URBAN RESEARCH

SOCI 130135 2 credits

The aim of the course is to provide students with Shanghai

discourse and facilitate their personal experience in the city as well as Hong Kong and Taipei. Students are expected to use their own first-hand observations, coupled with broad-based readings in a range of social science areas, to achieve their own understanding about Shanghai and the rapid pace of China.

RELIGION IN CHINESE SOCIETY

SOCI 130136 **2 credits**

This course introduces the sociological study of religion in Chinese society. The purpose of the course is to help students understand the significant role of Chinese religion in support of intellectual dialogue and mutual understanding between China and the West. The course further explores the similarities and contrasts in the dynamics of modernization as experienced in China and in the West, especially those spiritual convictions that lie at the heart of the Chinese heritage of popular belief and practice.

Module III: Legal Studies and Political Science

INTERNATIONAL LAW

LAWS 120002 3 credits

This course is designed to introduce the basic concepts, systems and principles of the international law as well as its significance. In the course, students are going to learn the establishing process and application of the international law.

INTERNATIONAL FINANCIAL LAW

LAWS 130029 3 credits

This course mainly introduces the international financial law system, international investment and payment practice. The course stresses on modern financial innovations and related legal systems.

INTERNATIONAL INVESTMENT LAW

LAWS 130036 3 credits

This course focuses on international treaties of investment and foreign laws regarding investment. It introduces aspects of international investment law including the legal sources, market admittance, legal protection, capital management and conflicts solving.

INTERNATIONAL COMMERCIAL LAW

LAWS 130052 3 credits

This course introduces the international business law

system from a comparative perspective, covering the general principles of international business law as well as the specific areas such as business organizations, foreign investment law, contract law, agency relationship, securities law and payment system. The course also examines the legal issues based on the Chinese business law comparing it with the other countries' business law.

INTERNATIONAL TRUST LAW

LAWS 130053 3 credits

Based on the common law of trust and comparing with the Chinese trust law system, this course examines the trust law system adopted by most countries in the world, covering the historical development, characteristics, advantages of the trust system, the creation of the trust and its defenses, and the specific trust forms, including express trusts, implied trusts, charitable trusts, and commercial trusts. Students will learn the general theories of trust law, and will have a chance to design a trust and draft trust instruments.

COMPARATIVE LAW

LAWS 130054 3 credits

This course is designed to introduce comparative law from the perspective of the jurisprudence, legal history, and legal systems. Further analysis will be based on specific legal systems of various countries, including constitutional law, business organization law, property law, etc. Both foreign and domestic legal experts in specific legal areas will be invited to be guest speakers in class, which is very helpful for students who plan to do legal research and writing.

HISTORY OF DIPLOMACY IN MODERN CHINA

POLI 110033 **2 credits**

This course is designed to cover basic historical facts, events, figures and doctrines about Chinese diplomacy. It is intended to provide an introductory survey of a diplomatic history ranging from 1949 when the People's Republic of China was established to the early 21st century. It examines major events, clues, and ideas in China's diplomacy at different stages of this particular period of the history. The course will help students achieve a better understanding and appreciation of Chinese perspective on contemporary issues related to international affairs.

POLITICAL DEVELOPMENT IN MODERN CHINA

POLI 110043 **2 credits**

This course provides a general survey of China's political change and concludes with political development theories based on China's experience. The content of this course includes market transition and political development, political institutions and political development, political culture of contemporary China, the grassroots democracy of modern China, the corruption problem of contemporary China, and the migrant problem with urbanization of modern China. The target of the course is to help students think and analyze independently some related problems with political theories.

PUBLIC POLICY: A GENERAL SURVEY

POLI 130013 **2 credits**

This course covers policy issue, agenda setting, formulation of public policy, implementation of public

policy, policy evaluation, policy making models and theory of public policy. In the course, students learn to analyze public policies intelligently, find the strengths and weaknesses in new media depictions of policy issues and understand how the study of public policy relates to political science and other social sciences.

WESTERN THEORIES OF INTERNATIONAL RELATIONS

POLI 130026 2 credits

This course is designed to assist students in acquiring knowledge about international relations theories and understanding of international politics from a theoretical perspective. It focuses on four theoretical paradigms – realism, liberalism, radicalism and constructivism, three levels - the individual, the state, and the international system, and major issues – international security, international political economy and globalization. This course requires students to understand various international relation theories and employ them to describe, explain, and predict international events.

POLITICS AND EXTERNAL RELATIONS OF THE EUROPEAN UNION

POLI 130032 2 credits

As an international actor with the highest level of integration in the world, the European Union consisting of 27 members is more and more important in the international community. This course focuses on the history of the EU's integration, form and process of the EU's institutions, theories regarding EU's integration such as functionalism, inter-governmentalism and federalism,

the EU's foreign policy and its roles in the international society.

INTERNATIONAL ORGANIZATIONS

POLI 130063 2 credits

This course introduces students to the study of international institutions by surveying a number of theoretical strands related to international cooperation. These theories will subsequently be used to explore the practice of existing international institutions.

The course is divided into three parts: the first part will cover basic theoretical approaches to international institutions, for example liberal institutionalism; the second part will explore the historical background, working practice and problems affecting existing institutions (both global and regional in scope); the last part will reconsider the function of these institutions.

IDENTITY AND INTERNATIONAL RELATIONS

POLI 130108 2 credits

This course introduces the basic concepts, issues, perspectives and debates in international relations. It intends to help students analyze identity politics in international relations with a certain theoretical perspective, find different views of identity politics in various speeches, critics and academic works, understand identity politics behind foreign policies, and compare different theoretical views in concrete international issues.

COMPARATIVE POLITICS

POLI 130128 2 credits

Starting with Aristotle, scholars have looked beyond their national borders to search for universal principles of politics. This course provides a summary of this ongoing effort. It is designed to introduce students to some of the major theories and research findings in comparative politics studies. It will help students think more systematically about politics and apply the theories discussed in class to particular countries of their interests.

CLASSICAL READINGS IN INTERNATIONAL POLITICS

POLI 1300135 2 credits

This course is intended to help students learn basic concepts and theories of international politics and relations and help them understand the origins and formation of various schools of international politics and relations. The selected readings cover a wide range of topics about fundamental issues and key elements in international politics. One of the major purposes of the course is to propel students to speculate about creating an academic framework of exploring international politics and relation with the Chinese characteristics while being immersed in reading these western masterpieces.

SELECTED READINGS OF WESTERN REVIEWS ON GLOBAL AFFAIRS

POLI 130136 2 credits

The course aims to help students understand the standpoints of western scholars and commentators on

hot global issues. Dynamic study is one of effective approaches to exploring international problems. Through the instruction of the course, students can learn from the western scholars advanced methodologies of doing academic work and appreciate their distinct perspectives, sharp comments and criticism. The textbook offers the essays written by eminent scholars and statesmen and published in world-renowned journals and periodicals.

WESTERN ETIQUETTE CULTURE

POLI 130137 **2 credits**

This course is designed to enhance students' knowledge of western etiquette culture and improve their communicative skills with westerners by relevant skill-building exercises and tasks. The course targets the enhancement of the knowledge and skills in the following aspects: western customs, etiquette of daily personal communication, etiquette of dining, etiquette of dressing and behavior in public places, small talk savvy, etc. The ultimate goal is to provide students with practical, culture-savvy, up-to-date information on western etiquette to enable them better communicate with westerners and help them face the world with confidence.

INTERCULTURAL AND INTERNATIONAL COMMUNICATION

POLI 130138 **2 credits**

This course is designed to enhance students' knowledge about other cultures and improve their communicative skills with people from different cultural backgrounds. The course targets the enhancement of the knowledge and skills in the following aspects: language and

verbal communication across cultures, understanding intercultural misunderstandings, nonverbal language in international communication, intercultural negotiation and managing conflicts. The ultimate goal is to provide students with opportunities to master theory of intercultural communication, increase their cultural knowledge and get them better prepared as global citizens.

CHINESE PUBLIC POLICY IN ACTION

POLI 130141 2 credits

This course is an introduction to the basic knowledge of public policy in China. It is composed of three parts: making policy, policy analysis and policy evaluation. It covers fiscal policy and monetary policy, education policy, health policy, technology policy, culture policy, social security policy, energy and environment policy.

NON-GOVERNMENT ORGANIZATIONS

POLI 130142 2 credits

This course introduces why the non-government organization comes into existence, how it develops, what its function is, and how it cooperates with government and private enterprise in order to resolve public problems.

Module IV: Science and Technology

INTRODUCTION TO MODERN BIOLOGY

BIOL 120001 **2 credits**

This course provides a basis for understanding fundamental axioms of modern biology, key concepts of biotechnology and current advances in the biological science. The topics covered include chemical basis of life, energy transformation, structure and function of cell, essential genetics and genomics, structure and function of plant and animal, origin and evolution of life, biological diversity, ecological concept and environment.

SCIENTIFIC METHODOLOGY AND

SCIENTIFIC PAPER WRITING

BIOL 130051 **2 credits**

This course provides a general guideline for students to learn how to formulate scientific questions and hypotheses, how to design a scientific experiment, and how to conduct scientific research. It strives to help students understand the concept and the general procedure of scientific paper writing and publication. The course covers the scientific methodology, the general model of scientific research, the general format and organization of a scientific paper and the way to handle different stages of the publication process.

GENERAL CHEMISTRY

CHEM 120001 2 credits

This course consists of two parts. The first part is an introduction of fundamental chemical principles, focusing on element properties, atomic and molecular structures, crystal structures and energy states. Based on these chemical principles, the second part introduces gas properties, solution reaction, thermodynamics, chemical equilibrium and kinetics. The course introduces properties of important compounds, as well as fundamental knowledge in the research fields of life sciences, medicine, materials, and energy.

EXPERIMENTS IN GENERAL CHEMISTRY

CHEM 120002 2 credits

This course introduces the basic aspects and characteristics of chemical science especially those of chemical experiments to elicit students' desire and interest in chemistry and train them in scientific thinking and methods. As the entry course of experimental techniques, this course has integrated the contents of inorganic chemistry, organic chemistry, analytical chemistry and physical chemistry.

ORGANIC CHEMISTRY

CHEM 120003 2 credits

This course covers fundamental topics of organic chemistry in detail, including nomenclature, structure, applications, properties, synthesis of various organic compounds. It also discusses the structure and properties of lipids, carbohydrates, nucleic acids and proteins. An introduction to mechanism of important organic reactions

is also provided. Since spectroscopy has become one of the most important tools for all areas of organic chemistry, students will also be instructed to use spectroscopic method to tackle a structural problem.

EXPERIMENTS IN ORGANIC CHEMISTRY

CHEM 120004 **2 credits**

This course is a general survey of basic laboratory techniques used in organic chemistry experiments. It is intended to help students develop proper laboratory etiquette, establish academic integrity and achieve a better understanding of fundamental knowledge in organic chemistry with first-hand laboratory experience. In addition to proficiency in basic laboratory techniques, this course offers training on data analysis capability based on experiment observations and mechanism understanding. The organic chemistry lab skills and problem solving skills acquired from this course will set a robust foothold for future study and research.

NEW PERSPECTIVES ON COMPUTER CONCEPTS

COMP 110029 **2 credits**

This course covers the most important topics in computer concepts, including computer hardware, software, operating systems and file management, the Internet, e-mail, the digital media and programming. No prior computer experience with these topics is required. With the successful completion of this course, students are expected to achieve a comprehensive understanding of the most important topics in computer concepts and the IT industry.

OPERATING SYSTEMS

COMP 130008 2 credits

This course tackles issues that influence the design of contemporary operating systems. It covers both the use of operating systems (externals) and their design and implementation (internals), focusing mainly on the internals. The course content include an overview of operating systems, operating system principles, concurrency, scheduling and dispatching, memory management, file systems, device management, real-time and embedded systems, distributed operating systems and system performance evaluation. Students have the opportunity to experiment with operating systems kernel.

ALGORITHM DESIGN AND ANALYSIS

COMP 130011 2 credits

As a core and fundamental course in computer technology, this course provides a comprehensive introduction to the modern study of computer algorithms. In addition, the complexity analysis of algorithms is conducted to help students understand the detailed differences between various algorithms for a certain problem in terms of time and space. The course targets the achievement of the following goals: understanding and mastering the fundamental algorithm design via a series of representative algorithms including graph algorithms and sorting algorithms; capable of logic reasoning, algorithms analysis as well as proof of the correctness of algorithms in terms of time and space complexity; applying algorithms to practical applications and real-world problems.

PATTERN RECOGNITION

COMP 130030 2 credits

This course provides an overview of a number of popular pattern recognition algorithms. It gives students the basic ideas and intuition behind pattern recognition methods as well as a better understanding of their working principles. Students are expected to learn to solve real problems with the presented algorithms.

ENERGY AND ENVIRONMENT

ENVI 110010 2 credits

This is an introductory course that covers the principles of energy, traditional fossil fuels, heat engines, energy crisis, renewable energy, nuclear energy, energy conservation, air pollution of different energy sources, and the global climate change caused by energy consumption. This course contains the latest advances in the field as well as basic concepts, resources, applications and problems of current interest. Students will be exposed to primary scientific literatures, scientific presentations and relevant exercises and tasks. By the successful completion of the course, students will have a better understanding of energy usage and its effects on environment.

PRINCIPLE OF FPGA ARCHITECTURE

AND ITS APPLICATIONS

INFO 130115 2 credits

The prerequisites for this course are Principles of Digital Integrated Circuit Design or Digital Circuit and System. Students also need to know how to write basic HDL (hardware description language) code and C programming

files. Students will learn the recent development of system-level FPGA devices, design methodology and embedded system applications.

INTRODUCTION TO PARALLEL COMPUTER ARCHITECTURES

INFO 130258 2 credits

This course is designed to teach students the basics of parallel computer architectures, at the same time show students the state-of-art progress in this field. It covers the major parallel processor issues including the major interconnect topologies, shared-memory addressing methodology, and its cache coherence and synchronization issues. Some message-passing architecture issues will also be discussed.

COMPUTATIONAL MATERIALS SCIENCE

MATE 130053 2 credits

This course provides some basic knowledge about computer simulations enabling students to model, understand and predict the properties of real materials. Specific topics include: density functional theory and the total-energy pseudo potential method; geometry optimization and molecular dynamics; band structure calculation and GW approximation and transport properties. The course employs case studies of advanced materials and nanotechnology. Basic theory will be interwoven with hand on tutorial for codes and step by step practical instruction. The ultimate goal is to elevate students to a level where they can appreciate modern work on materials property calculation and can carry out a first principle calculation by themselves.

CALCULUS I

MATH120012 **2 credits**

This introductory course presents the differential calculus of elementary functions of a single real variable: the rational, trigonometric and exponential functions and their inverses, various applications via the Mean Value Theorem, and an introduction to the integral calculus.

ENGINEERING FLUID MECHANICS

MECH 130024 **2 credits**

This is an important basic course for undergraduates specializing in engineering including power and energy, aviation, environment, heating and ventilation, machinery. The content of the course encompasses fluid properties, basic theory and common methods of fluid mechanics, analytical and solving process of five kinds of special flow subjects, and knowledge of engineering applications.

MATHEMATICAL PHYSIOLOGY

MECH 130099 **2 credits**

This course aims to build understanding of the workings of the human body by synthesizing a coherent description of the physiological background with realistic mathematical and mechanical models. The major content of this course includes human blood circulatory system, blood rheology, a 1D network of arterial tree and lumped model, 1D linear wave propagation theory, pulsatile flow in arteries and 3D-1D coupled models in hemodynamic simulation.

COLLEGE PHYSICS

PHYS 120009 3 credits

Physics is a cornerstone of modern science and technology. Physics studies the fundamental forces behind natural phenomena, and seeks universal laws governing the material world. Therefore, physics is a major basis for understanding the inorganic world as well as the biological world including the human body. The application of physics to biomedical and clinical sciences has produced not only new knowledge but also numerous powerful techniques for modern hospitals. This course covers major contents of college-level physics and also introduces several advanced medical physics topics. It is intended to help students develop a comprehensive and quantitative understanding of physics.

COLLEGE PHYSICS EXPERIMENTS

PHYS 120010 3 credits

The main purpose of this course is to augment and supplement the learning and understanding of basic physical principles, and to acquire basic techniques for handling practical problems.

GENERAL RELATIVITY

PHYS 130046 3 credits

General Relativity is the foundation of modern physics. This course provides students with the basic concepts and theoretical tools of general relativity, together with the basic knowledge of relativistic astrophysics. The course content includes special relativity and flat space time, manifolds, curvature, gravitation, weak fields and gravitational radiation, the Schwarzschild Solution and

Black Holes.

QUANTUM FIELD THEORY

PHYS 130069 2 credits

This is an introductory course on quantum field theory which is the foundation of modern theoretical physics. It is an essential subject for both particle physics and condensed matter physics. This course is designed to provide the basic concepts and methods of quantum field theory, and pave the way for further studies and researches of various directions. It is intended for senior undergraduates who are curious about quantum field theory and desire to understand physics on a unified and more advanced level.

SYSTEM PROGRAMMING DESIGN

SOFT 130024 2 credits

The aim of this course is to explain the operating system mechanism and interface, and how to use the knowledge to construct a system level program. The factors affecting the correctness and performance of programs will also be discussed. The course content covers programming on UNIX platform, Linux device drive development, parallel programming theory and open MP programming.

COMPUTABILITY AND COMPLEXITY THEORY

SOFT 130030 2 credits

This course is an introduction to the theory of computing. It first introduces Turing machines, the most powerful machine model known, and explore their computational

limits. Then it turns to fundamental complexity theory including P, NP, PSPACE, and NL.

COURSES OFFERED IN ENGLISH AT FUDAN UNIVERSITY



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Courses offered in English at Fudan University in the 2010-2011 academic year are subject to change. Online updated access to course information can be found at:

<http://www.jwc.fudan.edu.cn>

Module I: Economics and Management

Course Code	Course Name	Credit
ECON 110022	Dynamics of Chinese Economy	2
ECON 110023	Financial Development in China	2
ECON 120003	Macroeconomics I	2
ECON 130012	Economics of Development	2
ECON 130043	International Taxation	2
ECON 130059	Urban Economics	2
ECON 130063	International Marketing	2
ECON 130159	Principles of Financial Economics	2
ECON 130161	Managerial Economics	2
ECON 130168	International Business Negotiation	2
ECON 130169	International Business Management	2
MANA130004	Financial Management	2
MANA130006	Marketing Management	2
PHYS 130076	Econophysics	2
POLI 110041	Contemporary Japanese Economy	2
SOCI 130039	Political Economy of China	2

Module II: History and Cultural Studies

Course Code	Course Name	Credit
CHIN 130030	Western Linguistics	2
CHIN 130129	Introduction to Canons of Western Aesthetics	2
HIST 110013	History of Modern China	2
HIST 130126	China: from Reform to Revolution	2
HIST 130135	Greek Mythology	2
HIST 130138	Topics on Westerners in China	2
HIST 130141	Chinese Civilization	2
ICES 110012	China: A General Survey	2
JOUR 110011	Chinese Media and Politics in the Context of Globalization	2
JOUR 119002	Interpersonal Communication across Cultures	2
JOUR 130065	Topics on Photography	2
PHIL 110020	Chinese Intellectual History: the Ancient Period	2
PHIL 110025	Introduction to Buddhism	2
PHIL 130004	Marxist Currents outside China	2

Module II: History and Cultural Studies

Course Code	Course Name	Credit
PHIL 130021	Philosophy of Religion	2
PHIL 130050	Philosophy of Psychology	2
PHIL 130070	The History and Thought of Judaism	2
PHIL 130092	Readings in Original Ethical Writings I	2
PHIL 130093	Readings in Original Ethical Writings II	2
SOCI 110020	Introduction to Chinese Society and Culture	2
SOCI 130004	Cultural Anthropology	2
SOCI 130018	Food and Culture	2
SOCI 130064	Globalization Studies	2
SOCI 130065	Development Studies	2
SOCI 130085	Chinese Culture and Commercial Practice	2
SOCI 130134	Debating Globalization	2
SOCI 130135	Shanghai in Comparative Perspective: Urban Research	2
SOCI 130136	Religion in Chinese Society	2

Module III: Legal Studies and Political Science

Course Code	Course Name	Credit
LAWS 120002	International Law	3
LAWS 130029	International Financial Law	3
LAWS 130036	International Investment Law	3
LAWS 130052	International Commercial Law	3
LAWS 130053	International Trust Law	3
LAWS 130054	Comparative Law	3
POLI 110033	History of Diplomacy in Modern China	2
POLI 110043	Political Development in Modern China	2
POLI 130013	Public Policy: A General Survey	2
POLI 130026	Western Theories of International Relations	2
POLI 130032	Politics and External Relations of the European Union	2
POLI 130063	International Organizations	2
POLI 130108	Identity and International Relations	2
POLI 130128	Comparative Politics	2
POLI 1300135	Classical Readings in International Politics	2
POLI 130136	Selected Readings of Western Reviews on Global Affairs	2

Module III: Legal Studies and Political Science

Course Code	Course Name	Credit
POLI 130137	Western Etiquette Culture	2
POLI 130138	Intercultural and International Communication	2
POLI 130141	Chinese Public Policy in Action	2
POLI 130142	Non-government Organizations	2

Module IV: Science and Technology

Course Code	Course Name	Credit
BIOL 120001	Introduction to Modern Biology	2
BIOL 130051	Scientific Methodology and Scientific Paper Writing	2
CHEM 120001	General Chemistry	2
CHEM 120002	Experiments in General Chemistry	2
CHEM 120003	Organic Chemistry	2
CHEM 120004	Experiments in Organic Chemistry	2
COMP 110029	New Perspectives on Computer Concepts	2
COMP 130008	Operating Systems	2
COMP 130011	Algorithm Design and Analysis	2
COMP130030	Pattern Recognition	2
ENVI 110010	Energy and Environment	2
INFO 130115	Principle of FPGA Architecture and its Applications	2
INFO 130258	Introduction to Parallel Computer Architectures	2
MATE 130053	Computational Materials Science	2
MATH120012	Calculus I	2
MECH 130024	Engineering Fluid Mechanics	2

Module IV: Science and Technology

Course Code	Course Name	Credit
MECH 130099	Mathematical Physiology	2
PHYS 120009	College Physics	3
PHYS 120010	College Physics Experiments	3
PHYS 130046	General Relativity	3
PHYS 130069	Quantum Field Theory	2
SOFT 130024	System Programming Design	2
SOFT 130030	Computability and Complexity Theory	2

Module I: Economics and Management

DYNAMICS OF CHINESE ECONOMY

ECON 110022 2 credits

This course attempts to give some explanations to so-called China's Miracle. It introduces the history of China's economic reform since 1978, illustrates the incentive effects on workers, firms, and local governments. It also points out the negative consequence of the incentive mechanism. The course helps students outside China better understand China's emergence and its potential role in the world economy.

FINANCIAL DEVELOPMENT IN CHINA

ECON 110023 2 credits

This course is an examination of economic growth and financial development in China, including how the financial system transforms. Students have the opportunity to learn the analysis of capital market, money market, monetary policies, as well as investment growth and RMB exchange rates.

MACROECONOMICS I

ECON 120003 2 credits

This course is an essential part of the theory systems of economics. It focuses on the operation of macro economy. It is conducted in tree parts: basic theories of macroeconomics, extension of the theory and discussion of the major issues concerned.

ECONOMICS OF DEVELOPMENT

ECON 130012 2 credits

Through this course, students are expected to understand the theoretical framework, research methods and analytical tools of economics of development. Students also have the opportunity to use these theories to analyze practical economic issues in China. This lays the foundation for their further exploration of the field.

INTERNATIONAL TAXATION

ECON 130043 2 credits

This course intends to help students understand the relevant Chinese taxation rules concerning taxation of international transactions, the principles of levying tax by other countries and the application of double taxation treaties. It is an introduction to international tax planning.

URBAN ECONOMICS

ECON 130059 2 credits

This course is a survey of urban economics. It includes introduction to urban economics, the agglomerative economy of the city, the location theory, the structure and its evolution of urban system, economic growth of the city, urban land utilization and its space structure, housing economics, urban traffic, social problems, and the development patterns of Chinese cities.

INTERNATIONAL MARKETING

ECON 130063 2 credits

This course provides a window on international marketing.

It includes macroscopic environmental analysis, microscopic environmental analysis, market research, market segmentation and positioning, products strategies, distribution strategies, pricing strategies, promotion strategies and marketing management.

PRINCIPLES OF FINANCIAL ECONOMICS

ECON 130159 2 credits

In this course, we study money and its role in an economy through studying simple economic models. The course covers the theories of money demand and supply, financial intermediation, the role of the central bank and monetary policies. These theories are then used as the basis for the discussion of the relationship between money growth and inflation, monetary stabilization policy, exchange rate policy, and the interaction between monetary and fiscal policy.

MANAGERIAL ECONOMICS

ECON 130161 2 credits

This course investigates how to direct scarce resources to manage cost effectively. It covers competitive markets, market power and imperfect markets. This course presents concepts, tools and models from managerial economics that practicing managers use. It aims to enhance students' analytical abilities of economic theories and logistical thinking.

INTERNATIONAL BUSINESS NEGOTIATION

ECON 130168 2 credits

This course provides an overview of international business negotiation styles and strategies, bargaining processes and dispute handling skills. It requires students' full and active participation in the classroom performance. Students are expected to perform a variety of tasks including discussion, reading, listening, case study, writing to pool all the knowledge they have with team workers. Team work is finalized in representative presentations which demands economic analytical ability as well as language skills.

INTERNATIONAL BUSINESS MANAGEMENT

ECON 130169 2 credits

This course is an exploration of themes including globalization, corporate strategy, corporate culture and marketing ethics. It requires students' full and active participation in the classroom performance. Students are expected to perform a variety of tasks such as discussion, reading, listening, case study, writing to pool all the knowledge they have with team workers. Team work is finalized in representative presentations which demands economic analytical ability as well as language skills.

FINANCIAL MANAGEMENT

MANA 130004 2 credits

This course introduces the fundamental financial theory with an emphasis on its applications to corporate financial management. The aim of the course is to provide students with a comprehensive understanding of the principles of corporate finance. It focuses on present value, capital

budgeting, project analysis, risk and return, payout policy, capital structure and opportunity cost of capital, as well as other important issues in corporate finance. After completing this course, students will be able to make investment and financing decisions given some necessary information.

MARKETING MANAGEMENT

MANA 130006 **2 credits**

This course offers a chance of learning fundamental marketing ideas from both theory and cases. It also discusses how to transfer these ideas or develop new thinking adapted to the situation of the emerge markets. It is committed to familiarizing students with mixed marketing strategies and developing their abilities of studying marketing situations, in particular, grasping the basic clue to the development of marketing settings and reaching the key points of the issues.

ECONOPHYSICS

PHYS 130076 **2 credits**

This is a new multidisciplinary course. It aims at the application of concepts and methodologies of physics to the research field of economics, in particular, finance and financial engineering. Integrating humanities and hard science, the course is intended to broaden students' minds, getting them aware of new trends in the multidisciplinary research and new approaches to complex problems. The course covers the structure of financial markets, stylized facts of price fluctuations, the modeling of price fluctuation and risk management, the physical model of financial markets, new approaches for

risk managements, the statistics of firm growths, and the distribution of income and wealth.

CONTEMPORARY JAPANESE ECONOMY

POLI 110041 2 credits

This course is a survey of the policy foundation of the development of contemporary Japanese economy. It also provides an overview of the complex process of developing under intricate domestic and foreign politic, economic circumstances. It includes a systematic introduction of the fast economic growth of Japan after World War II and the basic process and philosophy of the core economic system's generation, development and evolution.

POLITICAL ECONOMY OF CHINA

SOCI 130039 2 credits

This course provides a political economy perspective on the rapidly changing economy and society in contemporary China. It focuses on the impact of systemic and institutional requirements as well as policy strategies on the various dimensions of economic and social development in China from 1949 to the present.

Module II: History and Cultural Studies

WESTERN LINGUISTICS

CHIN 130030 2 credits

This course highlights the relation between linguistic forms, uses and the ecologies in which they are embedded. It will be of interest to students who are concerned with the interfaces between pragmatics, semantics and syntax. It introduces students to the major topics which have updated linguistic theories in the West: deixis, reference, presupposition, entailment, implicature, speech acts, politeness, figurativity, the ad hoc meaning construction, and polarity items.

INTRODUCTION TO CANONS

OF WESTERN AESTHETICS

CHIN 130129 2 credits

This course is intended to help students comprehend the western tradition in the theory of literature and art. Students are expected to read the representative books of western aesthetics and acquire an overview of the development of the aesthetical idea. They will also learn how to interpret various aesthetical texts with a proper methodology.

HISTORY OF MODERN CHINA

HIST 110013 2 credits

This course introduces some major themes of China's modern history. It examines the internal and external causes leading to the collapse of China's last dynasty, and

discusses the personalities and events that shaped China's entry into the 20th century. Then it traces the tumultuous history of China from 1911 when the Republic of China was set up to 1949 when the Communist Party of China rose to power.

CHINA: FROM REFORM TO REVOLUTION

HIST 130126 2 credits

This course introduces a series of reforms carried out by different social and political groups in 19th and early 20th century China, when the last imperial dynasty was in imminent danger of falling apart. The course also examines the international relations between China and other major countries during the first half of the 20th century, helping students understand the historical significance of events before the eve of revolutionary Republican era, and the discourse of China's modernization after the establishment of New China in 1949.

GREEK MYTHOLOGY

HIST 130135 2 credits

This course introduces some major Greek myths as recounted in great works of literature, from the epics of Homer and Hesiod through the Homeric Hymns to Athenian tragedy. Throughout the course, the emphasis is placed on those aspects of Greek culture in which myth played an important role, especially in religion, art, literature and politics, in order to understand the functions of these myths in their original contexts. Modern interpretations are discussed, whenever necessary, for a more in-depth study of these myths.

TOPICS ON WESTERNERS IN CHINA

HIST 130138 2 credits

This course introduces a variety of Europeans and North Americans who lived and worked in China from the 1500s to the early 20th century: missionaries, businessmen, journalists, photographers, academics, and others professionals. Why did they come to China? What did they do in China, and what was the significance of what they did? As foreigners, they have played major roles in the last a few centuries, which left a lot for us to explore.

CHINESE CIVILIZATION

HIST 130141 2 credits

This course introduces diverse achievements and distinctive characteristics of traditional Chinese civilization. It covers the history of China from the earliest times to early the 20 th century. It examines the main political, social, economic, religious and cultural development throughout the Chinese history. The course focuses on a variety of themes: the origin and evolution of a distinctive Chinese political system, the evolution of Confucianism and its role in Chinese history, the arrival and growth of Buddhism, the relation between China and the outside world, the economic growth in late imperial period and developments in art and literature.

CHINA: A GENERAL SURVEY

ICES 110012 2 credits

This course aims to help international students gain some background knowledge about China in history, geography, economy, education and social life. It is intended to help students enhance their communication skills and

life experience in China. Flexible teaching methods are used to fully arouse students' initiative and interest in the course. In-class teaching and extracurricular practice are combined.

CHINESE MEDIA AND POLITICS IN THE CONTEXT OF GLOBALIZATION

JOUR 110011 2 credits

This course introduces students to the background of China's political institution and culture and provides an overview of the relationship between China's media and politics in a global context. It is intended to help students acquire a broad perspective of China's political communication and gain familiarity with China's media system and its political consequences in globalization. Four general topics will be explored: media and China's revolution, media's role in China's political institution; trajectory of Media Reform, media and international relations.

INTERPERSONAL COMMUNICATION ACROSS CULTURES

JOUR 119002 2 credits

This course is intended to help students acquire a broad perspective of Chinese culture and the way it affects Chinese thinking and life. The course covers the components, principles and rules of the interpersonal communication process. Students learn to become skilled, effective communicators by applying book knowledge to interpersonal communication across cultures.

TOPICS ON PHOTOGRAPHY

JOUR 130065 2 credits

This course addresses social cultural meaning of photography and some practices of photography. The course is divided into three parts. The first part guides students to understand the social cultural meaning of photography; the second part shows students different styles of photography through learning the important photographers and their works on photography history; the third part instructs students to observe the society by doing some practices on documentary photography and helps students understand themselves through the tool of photography.

CHINESE INTELLECTUAL HISTORY:

THE ANCIENT PERIOD

PHIL 110020 2 credits

This course aims at giving a general account of Chinese traditional thoughts including Confucianism, Daoism, Monism and Legalism. These schools have had tremendous and lasting impact on the formation of the Chinese mind and will continue to shape the Chinese outlook on life in the future. Representative thinkers from each of these schools will be selected and introduced. In addition to philosophical analysis, historical as well as cultural factors contributing to the rise and development of the thoughts will be examined.

INTRODUCTION TO BUDDHISM

PHIL 110025 2 credits

This course is an introduction to Buddhist Doctrine with

a focus on its Indian origins, though all three scriptural traditions, namely South-East Asian (Pāli), East Asian (Chinese) and Central Asian (Tibetan) will somehow be covered. Students will learn the basics of Buddhist philosophy and religious doctrine, discussing the function and role of Buddhist monastery in the traditional Buddhist society. Buddhism in this course is studied both as a textual-philosophical tradition and as a living religion.

MARXIST CURRENTS OUTSIDE CHINA

PHIL 130004 **2 credits**

This course is designed to lead students into the area of western Marxism. It firstly aims to help students achieve a general understanding of the development of different currents of western Marxism, including the context of the origin of western Marxism, the problem-consciousness of different currents and their way to investigate problems. The course also helps students read some selected western Marxist texts and learn to explore western Marxist critique of modernity, the relationship between German idealism and Marx's philosophy, and the vital relevance of Marx's philosophy to the contemporary world.

PHILOSOPHY OF RELIGION

PHIL 130021 **2 credits**

This course mainly discusses the western philosophy of religion covering a variety of topics: the concept of God, God existence arguments, the religious language, religion and science, religious attitude to soul and death, diversity of religion, and religious dialogue. Students are expected to reflect on the essence and function of religion.

PHILOSOPHY OF PSYCHOLOGY

PHIL 130050 **2 credits**

The main purpose of this course is to provide a systematic survey of the philosophy of psychology, which is devoted to some philosophical reflections upon fundamental problems concerning empirical studies in psychology, for example, the status of folk psychology, the tenability of eliminative materialism as well as the nature of nationality.

THE HISTORY AND THOUGHT OF JUDAISM

PHIL 130070 **2 credits**

This course offers a general introduction to Judaism. It examines biblical and classical rabbinic sources concerning worship, holidays, and ideals. It also provides a survey of medieval and modern transformations of these aspects of Judaism, as well as major historical events that have shaped contemporary Jewish life. Through intense analysis of primary sources, students will understand how Jews have defined sacred time, sacred space, and religious leadership and their ideas. The course focuses on the dynamics of Judaism as a religious "tradition," in which innovation and change emerges through asserting continuity with the past.

READINGS IN ORIGINAL ETHICAL WRITINGS I

PHIL 130092 **2 credits**

This course initiates students into active learning with texts selected from western classical ethical writings. Through a close reading of these original texts, the course intends to introduce students to main ideas and concepts of ethics as well as various ways of argumentation. Students are expected to build up proficiency and skills for

reading philosophical English.

READINGS IN ORIGINAL ETHICAL WRITINGS II

PHIL 130093 2 credits

This course administers a careful reading of texts selected from contemporary western ethical writings of different schools. It covers metaethics, normative ethical theories and applied ethics as well. The course is intended to help student become acquainted with different ethical theories and important ethical issues of our time, and further prompt them to address real ethical problems they meet up with in their daily life from a philosophical perspective. Students are also expected to improve skills for reading philosophical texts and to build up proficiency for reading philosophical English as well.

INTRODUCTION TO

CHINESE SOCIETY AND CULTURE

SOCI 110020 2 credits

About a fifth of the world population lives in China. At the same time, as China has the longest continuous culture surviving from ancient times, globalization widely affects Chinese culture and society. Chinese culture and society is undergoing dramatic changes in the era of globalization and transformation. This course provides an introduction to Chinese society and culture in the Era of Globalization and Transformation from an East-West Perspective.

CULTURAL ANTHROPOLOGY

SOCI 130004 **2 credits**

As a critical introduction to the premises, vocabulary, and methods of the anthropological dialogue with people of other cultures, this course begins with basic anthropological understandings of culture and society, explores anthropological approaches to the way culture, language and society interact, and targets an intimate understanding of contemporary world affairs through anthropological lenses. The course gives a broad overview of contemporary cultural anthropology and its relationship to other social and behavioral sciences. It examines the ways in which cultural anthropologists pose questions, provide answers, and relate claims and evidence. At the same time, the course seeks some fair-minded insights into the collective lives of people who work, play, fight, speak, eat, and pray in ways different from our own.

FOOD AND CULTURE

SOCI 130018 **2 credits**

This course covers a variety of topics on food and culture including: food and power relationships, gift giving and reciprocity, food exchanges and the social construction of groups, food as a marker of social boundaries, food taboos and restrictions, food symbolism and identity, fasting and abstinence, food etiquette and manners, body image and the symbolism of human fat, standardization of food preferences, trans-nationalism and global food industries, changes in dietary patterns, famine and food emergencies, vegetarianism and alternative consumption regimes, trade barriers and global food provisioning, bioengineering and the invention and the commoditization of new food.

GLOBALIZATION STUDIES

SOCI 130064 2 credits

The course introduces the interplay between globalization of interactions (flows of material goods, of political influence, and of information) and people construction of social identities giving meaning and direction to their daily life. It examines how the revolution in information technology, in transportation, in the restructuring of capitalism, and in the development of means of mass destruction create new tensions in this interplay - transforming societies, challenging received ideologies, restructuring the distribution of material wealth, as well as dramatically changing lifestyles and consumption patterns.

DEVELOPMENT STUDIES

SOCI 130065 2 credits

This course examines the pace and strategy of Shanghai development as well as the social issues that arise from the pressures of development and the influence of globalization. Further, the course seeks further to explore how these issues are interrelated and how they reflect the greater scale of development in China. A sociological approach is adopted to help students understand both the roots of development "problems" and their consequences for individuals, communities, and societies. Students can learn about the local experience as well as proposed theoretical explanations and solutions concerning Shanghai's development issues.

CHINESE CULTURE AND COMMERCIAL PRACTICE

SOCI 130085 2 credits

Drawing upon an interdisciplinary approach, this course

addresses several major themes focusing on the dynamics of China's unprecedented socioeconomic transformations. Topics covered include the implications of globalization for everyday life in the local contexts, the cultural dimensions of international business, and the rise of entrepreneurship and consumerism in contemporary China. An important goal of this course is to provide a set of conceptual tools and a new perspective that can help students better understand the social world around them. Well-documented case studies and business ethnographies will be woven into in-class discussions of these major themes as a way of grounding theory in marketing practices.

DEBATING GLOBALIZATION

SOCI 130134 2 credits

This course examines recent theories of globalization from an anthropological perspective, with an emphasis on the transnational political, economic, and cultural structures that are transforming local societies throughout the world. Special attention is devoted to debates regarding cultural imperialism, the science and technology transfer, and Diasporas ethnicity. The anthropological perspective is largely a “bottom-up,” comparative examination of particular social processes, and is presented in the form of ethnographic monographs and articles that describe everyday life in detail. The main question to be addressed is the impact of transnational processes.

SHANGHAI IN COMPARATIVE PERSPECTIVE: URBAN RESEARCH

SOCI 130135 2 credits

The aim of the course is to provide students with Shanghai

discourse and facilitate their personal experience in the city as well as Hong Kong and Taipei. Students are expected to use their own first-hand observations, coupled with broad-based readings in a range of social science areas, to achieve their own understanding about Shanghai and the rapid pace of China.

RELIGION IN CHINESE SOCIETY

SOCI 130136 **2 credits**

This course introduces the sociological study of religion in Chinese society. The purpose of the course is to help students understand the significant role of Chinese religion in support of intellectual dialogue and mutual understanding between China and the West. The course further explores the similarities and contrasts in the dynamics of modernization as experienced in China and in the West, especially those spiritual convictions that lie at the heart of the Chinese heritage of popular belief and practice.

Module III: Legal Studies and Political Science

INTERNATIONAL LAW

LAWS 120002 3 credits

This course is designed to introduce the basic concepts, systems and principles of the international law as well as its significance. In the course, students are going to learn the establishing process and application of the international law.

INTERNATIONAL FINANCIAL LAW

LAWS 130029 3 credits

This course mainly introduces the international financial law system, international investment and payment practice. The course stresses on modern financial innovations and related legal systems.

INTERNATIONAL INVESTMENT LAW

LAWS 130036 3 credits

This course focuses on international treaties of investment and foreign laws regarding investment. It introduces aspects of international investment law including the legal sources, market admittance, legal protection, capital management and conflicts solving.

INTERNATIONAL COMMERCIAL LAW

LAWS 130052 3 credits

This course introduces the international business law

system from a comparative perspective, covering the general principles of international business law as well as the specific areas such as business organizations, foreign investment law, contract law, agency relationship, securities law and payment system. The course also examines the legal issues based on the Chinese business law comparing it with the other countries' business law.

INTERNATIONAL TRUST LAW

LAWS 130053 3 credits

Based on the common law of trust and comparing with the Chinese trust law system, this course examines the trust law system adopted by most countries in the world, covering the historical development, characteristics, advantages of the trust system, the creation of the trust and its defenses, and the specific trust forms, including express trusts, implied trusts, charitable trusts, and commercial trusts. Students will learn the general theories of trust law, and will have a chance to design a trust and draft trust instruments.

COMPARATIVE LAW

LAWS 130054 3 credits

This course is designed to introduce comparative law from the perspective of the jurisprudence, legal history, and legal systems. Further analysis will be based on specific legal systems of various countries, including constitutional law, business organization law, property law, etc. Both foreign and domestic legal experts in specific legal areas will be invited to be guest speakers in class, which is very helpful for students who plan to do legal research and writing.

HISTORY OF DIPLOMACY IN MODERN CHINA

POLI 110033 **2 credits**

This course is designed to cover basic historical facts, events, figures and doctrines about Chinese diplomacy. It is intended to provide an introductory survey of a diplomatic history ranging from 1949 when the People's Republic of China was established to the early 21st century. It examines major events, clues, and ideas in China's diplomacy at different stages of this particular period of the history. The course will help students achieve a better understanding and appreciation of Chinese perspective on contemporary issues related to international affairs.

POLITICAL DEVELOPMENT IN MODERN CHINA

POLI 110043 **2 credits**

This course provides a general survey of China's political change and concludes with political development theories based on China's experience. The content of this course includes market transition and political development, political institutions and political development, political culture of contemporary China, the grassroots democracy of modern China, the corruption problem of contemporary China, and the migrant problem with urbanization of modern China. The target of the course is to help students think and analyze independently some related problems with political theories.

PUBLIC POLICY: A GENERAL SURVEY

POLI 130013 **2 credits**

This course covers policy issue, agenda setting, formulation of public policy, implementation of public

policy, policy evaluation, policy making models and theory of public policy. In the course, students learn to analyze public policies intelligently, find the strengths and weaknesses in new media depictions of policy issues and understand how the study of public policy relates to political science and other social sciences.

WESTERN THEORIES OF INTERNATIONAL RELATIONS

POLI 130026 2 credits

This course is designed to assist students in acquiring knowledge about international relations theories and understanding of international politics from a theoretical perspective. It focuses on four theoretical paradigms – realism, liberalism, radicalism and constructivism, three levels - the individual, the state, and the international system, and major issues – international security, international political economy and globalization. This course requires students to understand various international relation theories and employ them to describe, explain, and predict international events.

POLITICS AND EXTERNAL RELATIONS OF THE EUROPEAN UNION

POLI 130032 2 credits

As an international actor with the highest level of integration in the world, the European Union consisting of 27 members is more and more important in the international community. This course focuses on the history of the EU's integration, form and process of the EU's institutions, theories regarding EU's integration such as functionalism, inter-governmentalism and federalism,

the EU's foreign policy and its roles in the international society.

INTERNATIONAL ORGANIZATIONS

POLI 130063 2 credits

This course introduces students to the study of international institutions by surveying a number of theoretical strands related to international cooperation. These theories will subsequently be used to explore the practice of existing international institutions.

The course is divided into three parts: the first part will cover basic theoretical approaches to international institutions, for example liberal institutionalism; the second part will explore the historical background, working practice and problems affecting existing institutions (both global and regional in scope); the last part will reconsider the function of these institutions.

IDENTITY AND INTERNATIONAL RELATIONS

POLI 130108 2 credits

This course introduces the basic concepts, issues, perspectives and debates in international relations. It intends to help students analyze identity politics in international relations with a certain theoretical perspective, find different views of identity politics in various speeches, critics and academic works, understand identity politics behind foreign policies, and compare different theoretical views in concrete international issues.

COMPARATIVE POLITICS

POLI 130128 2 credits

Starting with Aristotle, scholars have looked beyond their national borders to search for universal principles of politics. This course provides a summary of this ongoing effort. It is designed to introduce students to some of the major theories and research findings in comparative politics studies. It will help students think more systematically about politics and apply the theories discussed in class to particular countries of their interests.

CLASSICAL READINGS IN INTERNATIONAL POLITICS

POLI 1300135 2 credits

This course is intended to help students learn basic concepts and theories of international politics and relations and help them understand the origins and formation of various schools of international politics and relations. The selected readings cover a wide range of topics about fundamental issues and key elements in international politics. One of the major purposes of the course is to propel students to speculate about creating an academic framework of exploring international politics and relation with the Chinese characteristics while being immersed in reading these western masterpieces.

SELECTED READINGS OF WESTERN REVIEWS ON GLOBAL AFFAIRS

POLI 130136 2 credits

The course aims to help students understand the standpoints of western scholars and commentators on

hot global issues. Dynamic study is one of effective approaches to exploring international problems. Through the instruction of the course, students can learn from the western scholars advanced methodologies of doing academic work and appreciate their distinct perspectives, sharp comments and criticism. The textbook offers the essays written by eminent scholars and statesmen and published in world-renowned journals and periodicals.

WESTERN ETIQUETTE CULTURE

POLI 130137 **2 credits**

This course is designed to enhance students' knowledge of western etiquette culture and improve their communicative skills with westerners by relevant skill-building exercises and tasks. The course targets the enhancement of the knowledge and skills in the following aspects: western customs, etiquette of daily personal communication, etiquette of dining, etiquette of dressing and behavior in public places, small talk savvy, etc. The ultimate goal is to provide students with practical, culture-savvy, up-to-date information on western etiquette to enable them better communicate with westerners and help them face the world with confidence.

INTERCULTURAL AND INTERNATIONAL COMMUNICATION

POLI 130138 **2 credits**

This course is designed to enhance students' knowledge about other cultures and improve their communicative skills with people from different cultural backgrounds. The course targets the enhancement of the knowledge and skills in the following aspects: language and

verbal communication across cultures, understanding intercultural misunderstandings, nonverbal language in international communication, intercultural negotiation and managing conflicts. The ultimate goal is to provide students with opportunities to master theory of intercultural communication, increase their cultural knowledge and get them better prepared as global citizens.

CHINESE PUBLIC POLICY IN ACTION

POLI 130141 2 credits

This course is an introduction to the basic knowledge of public policy in China. It is composed of three parts: making policy, policy analysis and policy evaluation. It covers fiscal policy and monetary policy, education policy, health policy, technology policy, culture policy, social security policy, energy and environment policy.

NON-GOVERNMENT ORGANIZATIONS

POLI 130142 2 credits

This course introduces why the non-government organization comes into existence, how it develops, what its function is, and how it cooperates with government and private enterprise in order to resolve public problems.

Module IV: Science and Technology

INTRODUCTION TO MODERN BIOLOGY

BIOL 120001 **2 credits**

This course provides a basis for understanding fundamental axioms of modern biology, key concepts of biotechnology and current advances in the biological science. The topics covered include chemical basis of life, energy transformation, structure and function of cell, essential genetics and genomics, structure and function of plant and animal, origin and evolution of life, biological diversity, ecological concept and environment.

SCIENTIFIC METHODOLOGY AND

SCIENTIFIC PAPER WRITING

BIOL 130051 **2 credits**

This course provides a general guideline for students to learn how to formulate scientific questions and hypotheses, how to design a scientific experiment, and how to conduct scientific research. It strives to help students understand the concept and the general procedure of scientific paper writing and publication. The course covers the scientific methodology, the general model of scientific research, the general format and organization of a scientific paper and the way to handle different stages of the publication process.

GENERAL CHEMISTRY

CHEM 120001 2 credits

This course consists of two parts. The first part is an introduction of fundamental chemical principles, focusing on element properties, atomic and molecular structures, crystal structures and energy states. Based on these chemical principles, the second part introduces gas properties, solution reaction, thermodynamics, chemical equilibrium and kinetics. The course introduces properties of important compounds, as well as fundamental knowledge in the research fields of life sciences, medicine, materials, and energy.

EXPERIMENTS IN GENERAL CHEMISTRY

CHEM 120002 2 credits

This course introduces the basic aspects and characteristics of chemical science especially those of chemical experiments to elicit students' desire and interest in chemistry and train them in scientific thinking and methods. As the entry course of experimental techniques, this course has integrated the contents of inorganic chemistry, organic chemistry, analytical chemistry and physical chemistry.

ORGANIC CHEMISTRY

CHEM 120003 2 credits

This course covers fundamental topics of organic chemistry in detail, including nomenclature, structure, applications, properties, synthesis of various organic compounds. It also discusses the structure and properties of lipids, carbohydrates, nucleic acids and proteins. An introduction to mechanism of important organic reactions

is also provided. Since spectroscopy has become one of the most important tools for all areas of organic chemistry, students will also be instructed to use spectroscopic method to tackle a structural problem.

EXPERIMENTS IN ORGANIC CHEMISTRY

CHEM 120004 **2 credits**

This course is a general survey of basic laboratory techniques used in organic chemistry experiments. It is intended to help students develop proper laboratory etiquette, establish academic integrity and achieve a better understanding of fundamental knowledge in organic chemistry with first-hand laboratory experience. In addition to proficiency in basic laboratory techniques, this course offers training on data analysis capability based on experiment observations and mechanism understanding. The organic chemistry lab skills and problem solving skills acquired from this course will set a robust foothold for future study and research.

NEW PERSPECTIVES ON COMPUTER CONCEPTS

COMP 110029 **2 credits**

This course covers the most important topics in computer concepts, including computer hardware, software, operating systems and file management, the Internet, e-mail, the digital media and programming. No prior computer experience with these topics is required. With the successful completion of this course, students are expected to achieve a comprehensive understanding of the most important topics in computer concepts and the IT industry.

OPERATING SYSTEMS

COMP 130008 2 credits

This course tackles issues that influence the design of contemporary operating systems. It covers both the use of operating systems (externals) and their design and implementation (internals), focusing mainly on the internals. The course content include an overview of operating systems, operating system principles, concurrency, scheduling and dispatching, memory management, file systems, device management, real-time and embedded systems, distributed operating systems and system performance evaluation. Students have the opportunity to experiment with operating systems kernel.

ALGORITHM DESIGN AND ANALYSIS

COMP 130011 2 credits

As a core and fundamental course in computer technology, this course provides a comprehensive introduction to the modern study of computer algorithms. In addition, the complexity analysis of algorithms is conducted to help students understand the detailed differences between various algorithms for a certain problem in terms of time and space. The course targets the achievement of the following goals: understanding and mastering the fundamental algorithm design via a series of representative algorithms including graph algorithms and sorting algorithms; capable of logic reasoning, algorithms analysis as well as proof of the correctness of algorithms in terms of time and space complexity; applying algorithms to practical applications and real-world problems.

PATTERN RECOGNITION

COMP 130030 2 credits

This course provides an overview of a number of popular pattern recognition algorithms. It gives students the basic ideas and intuition behind pattern recognition methods as well as a better understanding of their working principles. Students are expected to learn to solve real problems with the presented algorithms.

ENERGY AND ENVIRONMENT

ENVI 110010 2 credits

This is an introductory course that covers the principles of energy, traditional fossil fuels, heat engines, energy crisis, renewable energy, nuclear energy, energy conservation, air pollution of different energy sources, and the global climate change caused by energy consumption. This course contains the latest advances in the field as well as basic concepts, resources, applications and problems of current interest. Students will be exposed to primary scientific literatures, scientific presentations and relevant exercises and tasks. By the successful completion of the course, students will have a better understanding of energy usage and its effects on environment.

PRINCIPLE OF FPGA ARCHITECTURE

AND ITS APPLICATIONS

INFO 130115 2 credits

The prerequisites for this course are Principles of Digital Integrated Circuit Design or Digital Circuit and System. Students also need to know how to write basic HDL (hardware description language) code and C programming

files. Students will learn the recent development of system-level FPGA devices, design methodology and embedded system applications.

INTRODUCTION TO PARALLEL COMPUTER ARCHITECTURES

INFO 130258 2 credits

This course is designed to teach students the basics of parallel computer architectures, at the same time show students the state-of-art progress in this field. It covers the major parallel processor issues including the major interconnect topologies, shared-memory addressing methodology, and its cache coherence and synchronization issues. Some message-passing architecture issues will also be discussed.

COMPUTATIONAL MATERIALS SCIENCE

MATE 130053 2 credits

This course provides some basic knowledge about computer simulations enabling students to model, understand and predict the properties of real materials. Specific topics include: density functional theory and the total-energy pseudo potential method; geometry optimization and molecular dynamics; band structure calculation and GW approximation and transport properties. The course employs case studies of advanced materials and nanotechnology. Basic theory will be interwoven with hand on tutorial for codes and step by step practical instruction. The ultimate goal is to elevate students to a level where they can appreciate modern work on materials property calculation and can carry out a first principle calculation by themselves.

CALCULUS I

MATH120012 **2 credits**

This introductory course presents the differential calculus of elementary functions of a single real variable: the rational, trigonometric and exponential functions and their inverses, various applications via the Mean Value Theorem, and an introduction to the integral calculus.

ENGINEERING FLUID MECHANICS

MECH 130024 **2 credits**

This is an important basic course for undergraduates specializing in engineering including power and energy, aviation, environment, heating and ventilation, machinery. The content of the course encompasses fluid properties, basic theory and common methods of fluid mechanics, analytical and solving process of five kinds of special flow subjects, and knowledge of engineering applications.

MATHEMATICAL PHYSIOLOGY

MECH 130099 **2 credits**

This course aims to build understanding of the workings of the human body by synthesizing a coherent description of the physiological background with realistic mathematical and mechanical models. The major content of this course includes human blood circulatory system, blood rheology, a 1D network of arterial tree and lumped model, 1D linear wave propagation theory, pulsatile flow in arteries and 3D-1D coupled models in hemodynamic simulation.

COLLEGE PHYSICS

PHYS 120009 3 credits

Physics is a cornerstone of modern science and technology. Physics studies the fundamental forces behind natural phenomena, and seeks universal laws governing the material world. Therefore, physics is a major basis for understanding the inorganic world as well as the biological world including the human body. The application of physics to biomedical and clinical sciences has produced not only new knowledge but also numerous powerful techniques for modern hospitals. This course covers major contents of college-level physics and also introduces several advanced medical physics topics. It is intended to help students develop a comprehensive and quantitative understanding of physics.

COLLEGE PHYSICS EXPERIMENTS

PHYS 120010 3 credits

The main purpose of this course is to augment and supplement the learning and understanding of basic physical principles, and to acquire basic techniques for handling practical problems.

GENERAL RELATIVITY

PHYS 130046 3 credits

General Relativity is the foundation of modern physics. This course provides students with the basic concepts and theoretical tools of general relativity, together with the basic knowledge of relativistic astrophysics. The course content includes special relativity and flat space time, manifolds, curvature, gravitation, weak fields and gravitational radiation, the Schwarzschild Solution and

Black Holes.

QUANTUM FIELD THEORY

PHYS 130069 2 credits

This is an introductory course on quantum field theory which is the foundation of modern theoretical physics. It is an essential subject for both particle physics and condensed matter physics. This course is designed to provide the basic concepts and methods of quantum field theory, and pave the way for further studies and researches of various directions. It is intended for senior undergraduates who are curious about quantum field theory and desire to understand physics on a unified and more advanced level.

SYSTEM PROGRAMMING DESIGN

SOFT 130024 2 credits

The aim of this course is to explain the operating system mechanism and interface, and how to use the knowledge to construct a system level program. The factors affecting the correctness and performance of programs will also be discussed. The course content covers programming on UNIX platform, Linux device drive development, parallel programming theory and open MP programming.

COMPUTABILITY AND COMPLEXITY THEORY

SOFT 130030 2 credits

This course is an introduction to the theory of computing. It first introduces Turing machines, the most powerful machine model known, and explore their computational

limits. Then it turns to fundamental complexity theory including P, NP, PSPACE, and NL.