学年学期	课程号	课程名	学分	开课单位	Course Title*	Course Description
2010 205 2 1/2 5:51	10250025			t talet were	Electron	The mechanical, physical and chemical properties of materials are determined by the microstructure, phase
2019-2020学年秋	40350033	电子显微分析 	3	材料学院	Microscopy	and composition of the materials. Electron microscopy is used to know the microstructure, phase and
		↑ 目 TLAK LLAM □			Introduction to	composition of the materials in a small area by u. This is an introductory level course aimed at giving a basic introduction to the key relationship between structure
2018-2019学年春	00350102	金属功能材料导	2	材料学院	Metallic Functional	and properties in material science, and on a wider level to encourage students to think about the role of materials
		论	L		Materials	in modern society. The The course trains the technical English communication skills through a series of simulated academic meetings.
2010 2010 半左百	10150022	1/14 # \F \D \D	۱	车辆与运载	Technical English	The course trains the technical English communication skills through a series of simulated academic meetings.
2018-2019学年夏	10150022	科技英语实践	2	学院	Communication	Student practice will take up most of the time, with the instructors setting the stage, guiding and motivating the
			\vdash			students. To alleviate the iss Sustainability science is science, technology, and innovation in support of
2019-2020学年秋	00460082	可持续到两	ر ا	地球系统科	Sustainability	sustainable development—meeting human needs, reducing hunger and poverty,
2019-2020子平休	100400082	可持续科学 	_	学系	Science	while maintaining the life support systems of the planet. As such, it is an
						active nursuit of the scie Electric Machinery Fundamentals focuses on the basic electro-magnetic theory of electric machines. The course
				电机工程与	Electric Machinery	covers the fundamentals of transformers, synchronous machines, asynchronous machines and DC machines.
2018-2019学年春	30220434	电机学(英)	4	应用电子技	Fundamentals	leovers the fundamentals of transformers, synchronous machines, asynchronous machines and DC machines.
				术系		This course is one of the key fundamental
				电机工程与		This course is one of the key fundamental This course provides the basic knowledge about classical control theory, modern control theory and discrete
2019-2020学年秋	30220363	自动控制原理	3	应用电子技	Modern Control	control theory.
2017-2020-	30220303	(英)		应用电 J IX 术系	Systems	For classical control theory, the following contents will be introduced: system modeling, transfer function and its
			L	71.21		transformation This course covers the signal representation/analysis, especially how to represent the complex signals in simple
2018-2019学年表	30230654	信号与系统	4	电子工程系	Signals and	format either in time or frequency domain. Based on that, it also covers how signals behave after passing through
2018-2019学年春 3023	30230034	(英)		电 上往が 	Systems(in English)	various linear, time-invaria
		超多次 医防扣 计	H		Probability and	This course covers the basic knowledge of elementary probability without rigorous treatment via measure
2018-2019学年春	30230742	概率论与随机过	2	电子工程系		theoretical tools. It includes probability spaces (sample spaces, sigma fields and probability), random variables
		程 (1)			Processes (1)	with its probability distribution, di This course starts from basics for narrowband and broadband PLC systems, network structure with its elements
2010 2010 光左右	40220052	通信网络设计实	۱	ナファロズ	Case Study on the	This course starts from basics for narrowband and broadband PLC systems, network structure with its elements
2018-2019学年春	40230952	例研究	2	电子工程系	Design of the	and PLC-specific performance problems for the PLC broadband systems. The characteristics of the PLC
			H		Communication	transmission medium are then presented includi The Summer Intensive Legal English Course aims to introduce first-year law students to the world of American
2018-2019学年夏	40661412	模拟法庭初级训	2	法学院	Moot Court	advocacy. Both the lecturer and tutors will closely work together to help students learn about the American legal
		练		1 1/4	Training	
		世界贸易组织法			The Law of the	system, legal research, case rea Economic interdependence between countries and across production chains continue to grow. In this context,
2019-2020学年秋	40661373	(英)	3	法学院	World Trade	stable rules on international trade are key. This course focuses on the rules established under the World Trade
			H		Organization(in	Organization (WTO) as well as select The Legal Reasoning Course will teach students to identify, predict, and apply legal rules and principles using
2019-2020学年秋	40661403	 法律推理	3	法学院	Legal Reasoning	legal reasoning and critical thinking skills found in common law systems in order to teach students "how to think
2019-2020一十八	170001773	14年生生		は女子院	Legal Reasoning	
		比拉从司达理	П		Comparative	like a lawver." The course w This course is designed to familiarize students with company and securities laws and underlying policies in
2019-2020学年秋	40661512	比较公司治理 (英)	2	法学院	Corporate	China, with an emphasis on the corporate governance structure of publicly-held companies. The course focuses
		(ベ)			Governance(in	on important governance issues such a
2010 2010 半左軍	10220022	核领域专业英语	2	工和₩™	Practical English in	This is class emphasis on oral communication in english for engineering physics students. The class format is
2018-2019学年夏	10320032	及实践		工程物理系	Nuclear Field	flexible, including lecture, discussion, and mutimedia presentations on scientifics topics. The final goal is to have each student be able to en
					International	Discuss and study the issues related to international logistics, understand both the commonalities and differences
2019-2020学年秋	40160522	国际物流(英)	2	工业工程系		l
2019-2020学年秋	40160522	国际物流 (英)	2	工业工程系		between international and domestic logistics, and learn to apply these concepts in real world applications.

				於工於為此	Mechanics of	Mechanics of Materials is a basic engineering subject that must be understood by anyone concerned with the
2018-2019学年春	20310474	材料力学(英)	4	航天航空学 院	Materials (in	strength and physical performance of structures. The subject matter includes such fundamental concepts as
				19元	English)	stresses and strains, deformations and dis Introduction to combustions processes and chemical kinetics. Mechanisms of formation of pollutants such as
2018-2019学年春	40310873	燃烧学	3	航天航空学	Combustion	nitrogen oxides, carbon monoxide, soot and unburned hydrocarbons in stationary and vehicular power plants.
2018-2019于平台	10310073	於阮子	5	院	Comoustion	Premixed and diffusion flame structure an
2018-2019学年夏	10210864	暑期强化课	1	航天航空学	Summer Intensive	The course is offered for undergraduate students by the internationally renowned scholars in the summer. The
2016-2019子午发	40310804		4	院	Course	course will focus on basic and frontier researches of mechanics and related areas. The course format is special A review of vector algebra. Concept of force. Equilibrium of particles. Moments about points and lines, couples
2010 2020 兴左秋	20210504	TH :人 -	4	航天航空学	Theoretical	
2019-2020字年秋	20310504	10504 理论力学(英)	4	院	Mechanics(in English)	and equivalent force systems. Equilibrium of rigid bodies. Analysis of simple structures such as trusses, frames, and beams. Centroids, centers
						This course aims to teach basic scientific knowledge and technologies in the field of environmental genomics and
2018-2019学年春	30050363	环境基因组学	3	环境学院	Environmental	conduct experimental training. The major content include: basic knowledge about microbial genes; relationship
			L		Genomics	between microbial genes and func
2010 2010 半年	40050622	饮用水水质安全	_	7 环境学院	Treatment	The course is structured with a main line pertaining to drinking water qualities, and is mainly composed of the
2018-2019学年春	40050622	保障工艺	2		technologies for safe drinking water	removal of individual impurities and contaminants by appropriate unit operations in the conventional treatment
			-		Study Abroad	process and the advanced treatme The undergraduate students in Global Environment Program of School of Environment, Tsinghua University are
2018-2019学年春	40050712	海外交流学习	#	环境学院	Program	required to attend the Study Abroad Program during their junior year and complete at least four core courses. The whole world is currently committed to adaptation against climate change, extreme disasters, environmental
					Low-carbon	
2018-2019学年春	40050752	低碳技术与管理	2	环境学院	Technology and	pollutions and exhausting fossil energy by means of establishment of a low-carbon society. Such transmission is
	世界环境	世界环境与文化			Management World	certainly necessitated in China. This course is completely taught in English, which is designed to enhance the English practical ability of
2018-2019学年夏	3-2019学年夏 30050302 体	体验(英语强化)	2	环谙学院	Environmental and	undergraduates, improve the understanding of the world environment and culture, and improve the ability of self-
2010 2017 1 1 5				. 25 7 112	Cultural Practice	learning, active communication and n
		国际组织和环境	1	环境学院	International	This is a five days intensive course on analysis of international organization and environmental conventions
2018-2019学年夏	30050321	公约			Organization and	operation mechanism, basing on the work experience of the expert and the text of Basel, Rotterdam and
		477			Environmental Introduction to	Stockholm Conventions. The course covers th This is a five days intensive course on international environmental law, using Beyerlin and Marauhn's work
2018-2019学年夏	40050762	 国际环境法概论	2	环境学院	International	(International Environmental Law) as a textbook. The course covers the following major themes: History of
2010 2017 1 1 5	10050702	国际产品公伙儿	_			
		可持续型社会:				international environmental law: source of With the growing requirement on environmental resources for the development of
2019-2020学年秋	40050773	环境、能源与行	3	环境学院	Environment,	human society, global environmental problems have become increasingly
		为		7 70 3 170	Energy and	prominent. A sustainable society involves not only rethinking of personal
		, -			Personal Choices	choices and behaviors, but al This course combines the fundamental of engineering materials with their applications. By means of lectures,
2018-2019学年春	20120293	工程材料(英)	3	机械工程系	Engineering	discussion, and lab exercises, the students are enabled to understand the relationships among the four elements of
. , , , ,		. , , , , , ,			Materials	materials science and engineeri
		机械系统微机控			Micro-Computer	This course combines software training with hardware training together, which makes it not only focuses on the
2018-2019学年春	30120403	制(英)	3	机械工程系		practice research of typical parts of
		` ′			Mechanical System Micro-Computer	electromechanical control system but also help students to acquire knowledge. In a word, it is a both int This course combines software training with hardware training together, which makes it not only focuses on the
2019-2020学年秋	30120403	机械系统微机控	3	机械工程系	1 1	practice research of typical parts of
		制(英)		7679,2272,31		electromechanical control system but also help students to acquire knowledge. In a word, it is a both int This course focuses on cultivating the creativity of student for mechanical system and structure design. Design is
					Design and	
2018-2019学年春	30120324	设计与制造(1)	4	41制械工程幺 1	Manufacturing (1)	the core, and analysis and calculation server the design. This course mainly introduces the engineering design
					5(-)	method of mechanical system.

						This course focuses on the common basic theory issues in the design of
2019-2020学年秋	20120314	扣标设计其动	1	机械工程系	Fundamentals of	mechanical products. It mainly introduces the design of life of mechanical
2019-2020子平水	20120314				Mechanical Design	systems, the design of reliability and durability in imparting the knowledge of
						kinematics analysis and de As information technology has evolved for decades, we have already embraced an era when the recombination of
2018-2019学年春	01510213	全球创新战略	3	基础工业训	Global Innovation	industries, information, talentes has become common. In collaboration with universities and institutes from
2010 2019 1 1 1		1. P. 1. C. 1. M. P. C.		练中心	Strategy	
		计算思维和系统		基础工业训	Computational	around the globe via iPodia Alliance. This course lead students to create a full stack modern computing system from basic logic gates, and proceeds to
2018-2019学年春	01510223	设计基础	3	练中心	Thinking and	build Memory, CPU, Assembly to Machine Language Translator, Virtual Machine, High level Language
		- / A 40 - \	H	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Foundations and Foundation of	Compiler, an Operating System, and a small ap This course introduces key Object-Oriented Programming (OOP) features and simple design patterns based on
2018-2019学年春	30240532	面向对象程序设	2	计算机科学	Object-Oriented	these OOP features. Using the design patterns based on OOP, this course trains students to design good software
		计基础		与技术系	Programming	structures which quarantee easy code
2010 2010兴年夏	40240045	计算机科学训练	5	计算机科学	Computer Science	Theory, programming and applications of deep learning. Applications include voice,
2018-2019字年复	018-2019学年夏 40240945	暑期学校)	与技术系	Training Summer	image, social network, knowledge graph, natural language processing and robotics. In
			H		School Sustainable	addition, deep generative models and deep reinforcement learning are introduced. This course offers students a comparative approach to investigating sustainable cities, focusing on urbanization
2019-2020学年秋	40910222	国际比较视野下 的可持续城镇化	2	建设管理系	Urbanization in an	in the world's two largest economies and biggest emitters of greenhouse gases: China and the United States.
		的可持续规模化			International	Using project-based learning appro
2018-2019学年夏 30000072	20000072	建环专业外语强	2	建筑学院	English Summer Camp for Built	To improve English level, especially for listening and speaking. To obtain some basic knowledge on the background of this major, and corresponding expression in English. To improve comprehensive ability,
2016-2019子牛友	30000072	化训练	_	建巩子院	Environment	
			交叉信息研	Writing in the	including teamwork, communication, speech and so on This course educates students to become more effective writers as well as better story tellers.	
2018-2019学年春	10470011	探究科学的写作	1	文文信息·明 究院	Sciences	For the effective writing part, we will follow the course offered by Kristin Sainani at Stanford University, and
				7696	Belefices	discuss principles of good writing, tricks Algebra has found deep and beautiful applications in computation theory. For example, group
2018-2019学年夏	20470062	代数与计算	2	交叉信息研 究院	Algebra and Computation	theory plays a critical role in Babai's recent breakthrough on graph isomorphism testing. As
2010-2017于平发	20470002	八奴一川井	_			another example, several important results in algebraic circuit comp
				交叉信息研	The Physics of	The 21st Century has seen a string of profound discoveries that interface physics, information theory and
2018-2019学年夏	30470232	信息物理	2	究院	Information	computer science. This course will introduce undergraduate students this exciting frontier by connecting the
					Introduction to	Various physics and computational ideas This course aims at providing freshmen students with a broad overview of the Artificial
2019-2020学年秋	20470073	人工智能入门	3	交叉信息研	Artificial	Intelligence field, including computer vision, robotics, reinforcement learning, AI systems, and
2019 2020 1 1 100	20170075	/_		究院	Intelligence	
		普通物理(1)		交叉信息研	General	AI algorithms, motivating them to study the field, and encouraging t General physics course for students majoring in science and engineering with interest in physics. This course is
2018-2019学年春	20470024	(英)	4	究院	Physics(1)(in	Calculus-based. Students are required to actively participate during the lectures. This class will provide with an
		()()		7 6176	English)	Opportunity to acquire a go Abstract algebra studies fundamental algebraic structures of groups, rings
2010 2010 11/2 15	20450054	11.25.75.10	١,	交叉信息研		and fields, etc. It is the foundation of modern mathematics and has broad
2018-2019学年春	20470054	抽象代数	4	究院	Abstract Algebra	and vital applications across different disciplines including computer
						science, physics, and chemistry. This course aims to introduce the fundamental mathematical techniques useful for computer science
2019 2010兴年丰	20470022	1. 增加 高田野型	3	交叉信息研	Mathematics for	
2018-2019字平存	304/0023	计算机应用数学	3	究院	Computer Science	undergraduate majors, illustrated with a rich spectrum of applications. Modern computer science education
			Н	大豆片白斑		requires the students to be equipped with broad kno The purpose of this course is to teach the principles and design of modern operating systems and distributed
2018-2019学年春	30470084	操作系统	4	交叉信息研	Operating System	systems, as well as system programming.
				究院		Topics we will cover include concepts of operating systems, networking, database systems and systems pro

	l) 1)	Ī., .,	To introduce various computational problems for analyzing biological data (e.g. DNA, RNA, protein sequences,
2018-2019学年春	30470093	计算生物学	3	交叉信息研	Computational	and biological networks) and the algorithms for solving these problems. Topics covered include: biological
		,		究院	Biology	sequence analysis, gene identification. This course gives an introduction to the basics of computation theory, including: Mathematical Logic, Finite
				交叉信息研	Theory of	This course gives an introduction to the basics of computation theory, including: Mathematical Logic, Finite
2018-2019学年春	30470134	计算理论	4	究院	Computation	Automata, Context-Free Grammars, Turing machine, undecidablity, and computational intractable topics (NP
			L	76196	Computation	complete. PSPACE, BPP, interactive proof. [Part One: Normal-form games]
				交叉信息研		Part Two: Extensive games
2018-2019学年春	30470154	博弈论	4	文文信息研 究院	Game Theory	Part Three: Bayesian games
				九阮		, ,
			H		T . 1 .: .	Part Four: Mechanism design This course aims at giving a comprehensive introduction to the fundamentals of computer networks and network
2018-2019学年春	30470223	计算机网络基础	3	交叉信息研	Introduction to	performance analysis. The course contains two parts. The first part covers various networking topics including
ото 201) 1 П сот, от 22	717778		究院	Computer Networks		
				交叉信息研	Introduction to	network principles. Ethernet, WiFi. As a basic part, this course first introduces the concept of linear programming with concrete examples, analyzes
2018-2019学年春	30470283	优化理论	3	文文·自心研究院	Optimization	its geometrical properties, and elaborates the important duality theory. Then three important methods solving
			Ш	7696	Theory	linear programming, the simplex This course covers the design principles and implementation essentials of the various
						I his course covers the design principles and implementation essentials of the various
2010 2010 ※左右	40.4702.62	<u> </u>	۱۵	交叉信息研	Autonomous	functional modules of an autonomous driving system:
2018-2019学年春	404/0262	目郊笃駅	2	究院	Driving	1. Overview: architecture of autonomous driving system, and overview of the autonomous
				-12-		driving industry;
			H			2 Hardwar This course is designed to prepare the students with the computer science major
		量化经济学	١. ا	交叉信息研 究院	Quantitative Economics	the insight and knowledge for studying the frontier interdisciplinary problems
2018-2019学年春	40470274		4			involving economics and computer science. The booming of data analytics and AI
					Leonomies	
						technologies h Quantum computer science is a course offered to undergraduate students with a
2018-2019学年春	40470284	 量子计算机科学	4	交叉信息研 究院	Quantum Computer Science	solid preparation in linear algebra but no-prerequisite on quantum theory.
2016-2019子平台	404/0284	重 丁	+			The course will cover many topics at the forefront of the new field of
						duantum computer science, in This course aims at giving students a comprehensive introduction on how to use computational thinking to solve
W =		智慧城市的计算		交叉信息研	Computational	
2018-2019学年夏	30470272	建模	2	究院	_	real world problems in the core urban
		7 – 7 -	H		System Regulation General	system disciplines of power systems, energy sciences, environmental sciences, etc. We expect the students This course is a follow-up course of General Physics I and for undergraduate students with serious interests in
2019-2020学年秋	20470034	普通物理(2)	1	交叉信息研	Physics(2)(in	physics and interdisciplinary sciences. The main focus of this course is to cover the most important topics in
2019-2020于平水	20470034	(英)	-	究院	English)	classical electrodynamics includ
			Н		Eligiisii)	Linear algebra finds wide applications in various fields, such as
2010 2020 W FT	20470044	th ld that	١.	交叉信息研		computer sciences, physics, mathematics and their interdisciplinary fields.
2019-2020学年秋	20470044	线性代数	4	究院	Linear Algebra	This course introduces the basic concepts and techniques of linear algebra.
				7 6176		
				交叉信息研	Introduction to	It includes the study of matrices Designed to appeal to a diverse audience, this course examines some of the fundamental ideas of the science of
2019-2020学年秋	30470013	计算机入门	3	文文 la 心切	Computer Science	computing. Lectures and hands-on assignments cover a wide variety of topics such as hardware organization, the
				ノレグル	Computer Science	Internet, computer programming, 1 Machine learning studies how computers can learn from experiences. Combining ideas from theoretical computer
2010 2020 24 5-71	20470104	In an av		交叉信息研		
2019-2020学年秋	30470104	机器学习	4	究院	Machine learning	science and statistics, researchers have developed many learning methods and their applications to computer
			\vdash			vision, bioinformatics, natural langua This course gives an introduction to the basics of algorithm, common algorithm design techniques, and the
2019-2020学年秋	30470124	算法设计	$ _{\Lambda} $	交叉信息研	Algorithm Design	analysis of running time (complexity). The main contents include: tools of algorithm analysis, divide and
2017-2020一十八	304/0124	开仏以川		究院	Aigorumi Design	conquer algorithms, dynamic programming, gr
			Щ		1	conquet argoriums, dynamic programming, gr

2019-2020学年秋	40470024	密码学基础	4	交叉信息研 究院	Fundamentals of Cryptography	Modern cryptography aims to protect information privacy, integrity and authentication. In this course, we first review basis of discrete probability, algebra and classical cryptography. Then there are three sections remaining: (1) symmetric key encryption
2019-2020学年秋	40470104	网络科学	4	交叉信息研 究院	Network Science	(1) symmetric key encryption Network science is a new and emerging scientific discipline that examines the interconnections among diverse physical or engineered networks, information networks, biological networks, cognitive and semantic networks, and social networks. In this course, w
2019-2020学年秋	40470243	人工智能: 原理 与技术	3	交叉信息研 究院	Artificial Intelligence: Principles and Techniques	and social networks. In this course, w This course will introduce the basic ideas and techniques underlying the design of intelligent computer systems. Specific topics include search, constraint satisfaction, game playing, graphical models, machine learning, Markov decision processes, and r This course is offered to upper level undergraduate students, junior or
2019-2020学年秋	40470293	量子通讯与密码	3	交叉信息研 究院	Quantum Communication and Cryptography	senior students in the Yao Class, physics, EE, and computer science departments. The course will cover topics at the forefront of the new field of quantum communication and cryptog
2018-2019学年春	30510053	计量经济学	3	经济管理学 院	Econometrics	This course is an introduction to econometrics. It introduces students to multiple regression methods for analyzing the relationship between two or more economic variables. It starts from the simple linear regression to multivariate regression, regression
2018-2019学年春	30510202	管理信息系统	2	经济管理学 院	Management Information Systems	The objectives of the Management Information Systems (MIS) course are to provide the students with (1) a understanding of MIS essentials and prospects from a combined perspective of technology and management, in
2018-2019学年春	30510523	货币银行学	3	经济管理学 院	Money and Banking	the context of big data: (2) a mastery of s This course presents basic concepts and theories in monetary and banking economics. Topics covered in the course include: the structure of financial system, financial market and financial institutions, definition of money and role of bank. Money supply an
2018-2019学年春	30510732	管理学原理	2	经济管理学 院	General Management	Organizations are all around us in society: we study in them, work for them, rely on them for goods and services, and we are often regulated and highly influenced by them. Understanding the management of organizations, therefore, is the key to becoming mo
2018-2019学年春	30510763	中级宏观经济学	3	经济管理学 院	Intermediate Macroeconomics	We will study the economic issues within a unified framework as possible as we can. At the same time, we will also try to introduce alternative theories and models. The main purpose is to introduce the method to study
2018-2019学年春	30510812	营销管理	2	经济管理学 院	Marketing Management	macroeconomics, not the facts and the Marketing is the core of an operating business, and also the management process through which goods and services move from concept to the customer. Marketing is based on thinking about the business in terms of
2018-2019学年春	30510863	发展经济学	3	经济管理学 院	Developmental Economics	customer needs and their satisfaction. Market Development economics is a course involving economic problems and policies of those countries that have not yet reached the level of economic well being observed in the western world. At the completion of this course, students will be familiar with theor
2018-2019学年春	30510883	经济增长	3	经济管理学 院	Economic Growth	The aim of the course is to provide students with a rigorous introduction to the empirical facts and theoretical models of economic growth. A recurring theme of this course is the question: "Why are some countries so rich,
2018-2019学年春	30510973	计量经济学	3	经济管理学 院	Econometrics(1)	while some others are so poor?" The purpose of this course is to help students understand how to interpret economic data. It will focus on the issues that arise in using this type of data, and the methodology for solving these problems. The focus of the course is on regression analysis.
2018-2019学年春	30510992	战略管理	2	经济管理学 院	Corporate Strategy Management	course is on regression analysis. This course introduces the concepts and tools of strategy formulation and competitive analysis. You will learn about why some firms survive and prosper while others do not, and develop critical analysis and communication skills to create and implement fir
2018-2019学年春	30511021	新生专题研讨	1	经济管理学	Freshman Seminar	
2018-2019学年春	40510333	中级财务会计 (2)	3	经济管理学 院	Intermediate Financial Accounting(2)	Based on the Intermediate Accounting (1), this course covers detail problems related to liabilities, shareholders' equities, investment and revenue recognition. Meanwhile, this course introduces briefly the income tax, pension and lease problems and accoun

	1		П	I	l	This course covers derivatives such as options, forward contracts, futures contracts, and swaps. By the end of the
2018-2019学年春	40510343	管理会计(1)	3	经济管理学	Managerial	course you will have a good knowledge of how these contracts work, how they are used, and how they are priced.
				院	Accounting (1)	Derivatives have become an in
				经济管理学	International	This course introduces to students basic concepts and theories in international economics. Topics covered in the
2018-2019学年春	40510763	国际经济学	3	院	Economics-Theory	course include: Ricardian trade model, Neo classical trade theory, The Heckscher-Ohlin, new trade theory-
			_		and Policy	competitive advantage. International
2018-2019学年春	40510943	产业组织理论	3	经济管理学	Theory of Industrial Organization	Under what circumstances should telecommunication firms be allowed to merge? When are hotel room prices
			H	17. Note 65: 201 N/		This course is designed for future managers who will face the new, globalized, and borderless world economy.
2018-2019学年春	40511012	商务案例分析	2	经济管理学	Business Case	Globalization and technological advances have created exciting opportunities for managers to pursue strategies in
				院	Analysis	markets around the world. These Game theory is the foundation of almost all modern economic theory. It is one of the most interesting courses in
			١.	经济管理学		Game theory is the foundation of almost all modern economic theory. It is one of the most interesting courses in
2018-2019学年春	40511103	博弈论	3	院	Game Theory	undergraduate economics. Emerged originally as a field of mathematics, it has been successfully applied to all
			┝	176		fields of economics. Furthermor This course aims to equip students with modern econometric tools and modeling methods for them to set up
2018-2019学年春	40511133	计量经济党(2)	3	3 经济管理学 院	Econometrics(2)	suitable econometric models to do data analysis. Hence the approach of this course will be model-driven and
2010-2017于中语 40311133	10311133	N 至红切于(2)				data-driven, which focuses on econometric
		八三人配金阿八	T	/ス シウ ケケ: T田 294	C 1:- f	Case analysis for Corporate Finance course covers the content of both basic theory of corporate finance and the
2018-2019学年春	40511242	公司金融案例分	2	经济管理学	Case analysis for	knowledge and skills of financial decision making analysis. It mainly includes the financial statement analysis,
		加		院	Corporate Finance	risk and return and cost of ca
2018-2019学年春 40511273			经济管理学	Information	This class discusses the basic concepts and methods of information resource management, including capturing,	
	40511273	信息资源管理	3	院	Resource	representing, organizing, storing, processing and exploiting information.
			⊢	170	Management	In particular, the introductory session will provide an overview of the This module is intended for students whose work interacts with user interface issues in the design of software
2018-2019学年春	40511323	人和按口设计	3	经济管理学	Human-Computer Interaction	systems. The module stresses the importance of user-centered design and usability in the development of
2010-2017于平石	70311323	八小山女口 仗 们		院		software applications and systems. Stude
			T	 	M-41	The course provides a rigorous introduction to the basic probability theory and models used in the study of
2018-2019学年春	40511373	精算学(1)	3	经济管理学	Mathematics of	insurance and risk finance. Students are expected to be proficient in differential, integral, and multivariate
				院	Risk(1)	calculus, and some previous exposure This course will introduce and delineate basic concepts and techniques in investments by examining such topics
			١.	经济管理学		
2018-2019学年春	40511423	投贷学	3	院	Investment	as risk-return trade off, optimal portfolio construction, Capital Asset Pricing model, APT, Market efficiency,
			⊢	175		topics related to bonds and futur This course provides a comprehensive introduction to the concepts and principles about data communication and
2019-2020学年秋	20510082	计管机 网络	2	经济管理学	Computer Network	computer networking, including architectures, protocols, hardware, software, and applications. Emphasis is put
2017-2020	20310002	1 11 11 11 11 11 11 11 11 11 11 11 11 1	-	院	Computer retwork	
			Г	なかな明光		upon the requirement analysis and Public Finance studies the role of the public sector in the economy. In this course, we will study the economic
2019-2020学年秋	30510073	公共财政学	3	经济管理学	Public Finance	foundations that justify the existence of the public sector, and the economic theory that describes what the role of
				院		the public sector should b
		W 11 1 1 1 1	١.	经济管理学	Data Structures and	Now we are in an Information era, which roots on a basic fact that, Information Technology (IT) has deeply and
2019-2020学年秋	30510273	数据结构	3	院	Algorithms	widely reshape almost every areas, e.g., production, operation, business, society and personal life. One important
			⊢		-	characteristic of information This course is designed for students who plan careers in the accounting and finance functions of corporations or
2019-2020学年秋	30510393	 宙社学(1)	3	经济管理学	Auditing(1)	government entities or in the consulting/risk management/internal audit services side of public accounting and
2017 2020 于 千水		甲 (「子(1)	آ	院	1.1.3.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	internal audit outsourcing firm
			T	 	Accounting	Information systems (IS) have become a necessity for modern companies to improve business processes, enhance
2019-2020学年秋	30510643	会计信息系统	3	经济管理学	Accounting Information System	management, innovate business models and build up core competitiveness. Accounting is in general concerned
				院	information System	with the identification, collection, pr

2019-2020学年秋	30510732	管理学原理	2	经济管理学 院	General Management	Organizations are all around us in society: we study in them, work for them, rely on them for goods and services, and we are often regulated and highly influenced by them. Understanding the management of organizations,
2019-2020学年秋	30510743	中级微观经济学	3	经济管理学 院	Intermediate Microeconomics	therefore, is the key to becoming mo The course presents basic theories of microeconomics and its applications. Topics covered include consumer theory, firm theory, market supply and demand, externality and public goods, industrial organization, game theory, information economics, and genera
2019-2020学年秋	30510893	财务报表分析	3	经济管理学 院	Financial Statement Analysis	theory, information economics, and genera The objectives of this course are to gain a more thorough understanding of financial accounting techniques and to explore the accounting theory underlying such techniques. Assets, revenue recognition, and income items, investments in other companies and s
2019-2020学年秋	30510962	金融机构	2	经济管理学 院	Financial Institution	A well-functioning financial system is crucial to economic growth and development as it promotes efficient capital allocation, provides risk sharing, and reduces transaction costs. This course will discuss the economic foundations of financial markets and
2019-2020学年秋	30511053	公司金融	3	经济管理学 院	Corporate Finance	Firms compete in Consumer & Business Markets to sell their products & services, and they also compete in Capital Markets for the resources required to operate their business. Investors provide the capital (resources) to
2019-2020学年秋	40510093	国际会计专题	3	经济管理学 院	Topics on International Accounting	companies with the expectation tha This course will explain the development of accounting and financial reporting models in the world, and to evaluate the reasons and evolution of international accounting harmonization and convergence; To provide you with the key technical issues in intern
2019-2020学年秋	40510193	管理系统模拟	3	经济管理学 院	Management Systems Simulation	Many analytical models and mathematical tools have been used in business decision to improve the operational efficiency and help seize the competitive advantage. Since, however, the real world business situation and
2019-2020学年秋	40510323	中级财务会计(1)	3	经济管理学 院	Intermediate Financial Accounting(1)	environment, regarded as a system, is u This course will focus on U.S. accounting standards, and the underlying issues of accounting will be incorporated with its actual development in China and international accounting standards. We will also cover various ethical issues related to the use and
2019-2020学年秋	40510842	电子商务	2	经济管理学 院	Introduction to Electronic Business	various ethical issues related to the use and This course focuses on the information superhighway as the technological enabler that has dramatically changed the way in which companies orchestrate their value creation. This course, with a strategic perspective in mind, looks into the knowledge-enabled
2019-2020学年秋	40510992	企业资源规划	2	经济管理学 院	Enterprise Resource Planning	ERP systems are enterprise-wide information systems that integrate various functional operations and streamline business processes. This course aims to introduce the concepts of ERP systems as well as the application, implementation, and management of ERP
2019-2020学年秋	40511003	环境与资源经济 学	3	经济管理学 院	Environmental and Resource Economics	This course is an introduction of Environmental and Natural Resource Economics. The objective of this course is for students to learn how basic economic theory can be used to understand and analyze environmental pollution
2019-2020学年秋	40511093	财务管理	3	经济管理学 院	Financial Management	and resource degradation problems Financial strategies encompass those financial decisions that affect the long-run value of the firm. The objective of this course is to build on the concepts of financial management learned in Corporate Finance (1) and other relevant courses to provide a
2019-2020学年秋	40511202	国际商务	2	经济管理学 院	International Business	International Business differs in important ways from business conducted within national borders. It poses additional challenges but also offers new opportunities. This course provides a framework for analyzing decisions made by firms in an international
2019-2020学年秋	40511223	行为经济学	3	经济管理学 院	Behavioral Economics	Do people really behave according to the standard neoclassical models of economics? Or do we sometimes have self-control problems? Do we care about other people as well as ourselves? Do we suffer from overconfidence?
2019-2020学年秋	40511323	人机接口设计	3	经济管理学 院	Human-Computer Interaction	This course will examine the common de This module is intended for students whose work interacts with user interface issues in the design of software systems. The module stresses the importance of user-centered design and usability in the development of software applications and systems. Stude
2019-2020学年秋	40511373	精算学(1)	3	经济管理学 院	Mathematics of Risk(1)	software applications and systems. Stude The course provides a rigorous introduction to the basic probability theory and models used in the study of insurance and risk finance. Students are expected to be proficient in differential, integral, and multivariate calculus, and some previous exposure

2019-2020学年秋	00510493	产业组织理论	3	经济管理学 院		Industrial Organization (IO) is the sub-field of microeconomics that studies firm behaviour and strategy in market competition, as well as the induced industry characteristics. Not only useful for economists, the theory of IO also provides the basic theor
2018-2019学年春	30140473	能源利用中的物 理化学(英)	3	能源与动力 工程系	Physical Chemistry in Energy Utilization	IO also provides the basic theor The course is mainly divided into three parts: chemical kinetics, introduction of quantum theory and spectroscopy, and several special topics, which are directly related to applications in the field of energy. These special topics include molecular intera This course teaches engineering students how to become effective in Technical
2018-2019学年春	40140982	科技英语写作与 表达	2	能源与动力 工程系	Technical Writing	This course teaches engineering students how to become effective in Technical English writing and communications, following basic principles and using practical examples and exercises. It consists of three main parts. Part I will introduce the key feat
2018-2019学年春	40140993	科学研究训练	3	能源与动力 工程系	Research Practice	This course aims to develop students' capability to perform scientific research as well as other challenges being considered during the process of conducting research and technology development. Course content includes
2019-2020学年秋	30140482	科学计算导论 (英)	2	能源与动力 工程系	Introduction to Scientific Computing	basic methodologies of scientific re The course focuses on the basic concepts in numerical analysis, including solution of ordinary differential equations (ODEs) and partial differential equations (PDEs), interpolation, optimization, parallel computing, and overview
2018-2019学年春	30140454	流体力学(英)	4	能源与动力 工程系	Fluid Mechanics	of applied computing i The course is divided into two parts. The first part is on fundamentals of fluid mechanics, whereas the second part is on advanced fluid mechanics. The objective of the first part is to provide an introduction to the beauty of fluid mechanics.
2019-2020学年秋	30140362	数值传热学 (英)	2	能源与动力 工程系	in Fluid dynamics	The objective of the first part is to provide an introduction to the beauty of fluid mechanics. The stude This course teaches the fundamentals of the finite difference method for modeling fluid dynamics and heat transfer problems. The course introduces steady-state and transient methods, the SIMPLE method, upwind versus central differencing, turbulence modeli
2019-2020学年秋	30140444	工程热力学(英)	4	能源与动力 工程系		central differencing, turbulence modeli The course material covers the following aspects: basic concepts and basic principles, properties of matters and the evaluation of properties, thermodynamic processes and cycles, and introduction to chemical-thermodynamics. The course content includes:
2019-2020学年秋	40140963	传热学(英)	3	能源与动力 工程系	Heat Transfer	thermodynamics. The course content includes: Heat transfer describes how energy is transferred as the form of heat due to temperature differences. This course utilizes the framework of Thermodynamics and Fluid Mechanics to further illustrate the typical formulations and engineering applications of
2019-2020学年秋	30140463	能源动力系统测 量与仪器(英)	3	能源与动力 工程系	Instrumentation for	formulations and engineering applications of The course targets basic concepts of measurement, theories and applications of various measurement techniques for key parameters, and instrumentation for energy and thermal engineering systems. Lectures and corresponding laboratories are included. 1) The
2018-2019学年春	30690552	逻辑学基础理论	2	人文学院	Foundations of Logic	The course gives an overview of classical meta-logical results, in particular, Godel's completeness and incompleteness theorems, Church-Turing's proof of the undecidability of first-order logic, and Tarski's
2018-2019学年春	30690562	模态逻辑及其应 用	2	人文学院	Modal Logic and its Applications	theorem on the undefinability of truth. Afte Among branches of modern logic, modal logic provides a nice balance of expressivity and complexity, allowing it to be applied widely and extensively in many fields ranging from humanities to software design. In this course, ideas and methods of modal 1
2019-2020学年秋	30690524	逻辑、语言与哲学	4	人文学院		this course, ideas and methods of modal 1 This course is designed for students with backgrounds and interests in philosophy, and consists of two parts. The first part of the course introduces fundamental logical notions and methods that have applications in philosophy. Things to be covered inc

2019-2020学年秋	00691962	从古代天文学到 哥白尼革命	2	人文学院	From Ancient Astronomy to the Copernican Revolution	The course is an overview of the background to Copernicus's revolution, so that the students can understand that he is part of a long tradition going back to the Babylonians, Greek antiquity, and Islamic civilization. His
2018-2019学年夏	00692031	工程伦理	1	人文学院	Engineering Ethics	revolution occurred by relyin This course involves not only the discussion of the ethical problems that people will face in engineering practice, and but also an analysis of the problems by using the basic concepts and theories of engineering ethics.
2018-2019学年夏	00691991	分支科学哲学前 沿	1	人文学院	Advanced Philosophy of Specific Sciences	Through case analysis, it tells The course is co-organized with the Center for Philosophy of Science at the University of Pittsburgh. We will invite its fellows to teach advanced philosophy of specific sciences at Tsinghua. The coordinator is Professor WANG Wei.
2018-2019学年夏	00692001	生命科学史与哲学	1	人文学院	History and Philosophy of Life Sciences	The course is organized by LEI Yi and WANG Wei at Tsinghua University and Professor M. Weisberg, the Chair of the Department of Philosophy at the University of Pennsylvania. We invite a historian of biology to teach history of life sciences in odd years a
2018-2019学年春	40700573	国际政治经济学 基础(英)	3	社会科学学 院	Fundamentals in International Political Economics	This introductory undergraduate course provides an overview of the field of international political economy (IPE) to students who have little to no previous background knowledge. The main aim is to help students to understand the interaction between inter
2019-2020学年秋	30700313	心理学概论	3	社会科学学 院	Psychology and live	What is human consciousness? What is human mind and how is it related to the brain? Why do we act, think, and feel in certain ways? How do we change cognitively, emotionally, and socially over the life span? What are personality disorders and how do t. This course uses modern quantitative techniques to investigate works of a
2019-2020学年秋	40701213	增长、分配和不 稳定性	3	社会科学学院	Growth, Distribution and Instability in Classical Political	few important classical political economists - Smith, Malthus, Ricardo, and Marx. The emphasis is on what they had to say about economic growth, income
2019-2020学年秋	10700073	心智、个体与文 化(英)	3	社会科学学 院	Mind, Individual and Culture	distribution and macroecon This course provides an introduction to the core concepts that form the foundation of the field of psychology. Topics include history of psychology, research methods, biological bases of behavior, sensation and perception, consciousness, learning and me
2019-2020学年秋	30700603	行为经济学 (英)	3	社会科学学院	Behavioral Economics	The purpose of this course is to inform students of decision rules and their associated biases. The course has two facets. First, it gives students a broad overview of important results from various behavioral sciences (e.g., behavioral decision research. How does the mind work? This course introduces students to the field of Cognitive Science, a
2019-2020学年秋	00701643	认知科学简介	3	社会科学学 院	Introduction to Cognitive Science	How does the mind work? This course introduces students to the field of Cognitive Science, a scientific pursuit that aims to understand the workings of the mind using an interdisciplinary approach, from psychology, linguistics, neuroscience, anthropolog The aim of this series of lectures is to introduce students to a number of issues
2018-2019学年夏	00701491	经济学、公共政 策与社会问题	1	社会科学学院	Economics, Public Policy and Society	in social science concerning the evolutionary foundations of human behaviour. How has our evolutionary heritage shaped our current societies? Can the study
2019-2020学年秋	30450213	生物化学(2)(英 文)	3	生命科学学 院	Biochemistry(2)(in English)	of our evolutiona Biochemistry II is the continuation of Biochemistry I. This course is divided into two parts. The first part (Chapter 14-23) is bioenergetics and metabolism, which includes principles of bioenergetics (Chapter 14), catabolism of carbohydrates. Jipid acids
2018-2019学年春	30450203	生物化学(1)(英 文)	3	生命科学学 院	Biochemistry(1)(in English)	catabolism of carbohydrates. linid acids The main purpose of this course is to teach the students the basic concepts in biochemistry, which includes the structures and functions of proteins, nucleic acids, carbohydrates, lipids and biomembranes. We will also put the emphasis on enzyme kinetics a This course is designed to introduce genetic principles to students of biology major. It aims to cover
2018-2019学年春	30450303	遗传学(英文)	3	生命科学学 院	Genetics(in English)	This course is designed to introduce genetic principles to students of biology major. It aims to cover comprehensively all fields of classical and modern genetics, but skips most topics that have been taught in biochemistry and microbiology.

		1	Π	4. 人到 坐 坐	Molecular	Molecular Biology is focus with the fuction of biological systems of the molecular level.Molecular Biology is
2018-2019学年春	30450453	分子生物学(英)	3	生命科学学 院	Biology(in English)	central to most studies in biology and life sciences and is directly ralated to biomedical research and
				19元	Biology(iii Eligiisii)	biotechnology.In this subject,students a This course, consisting mainly of lectures, but also practical work in class
				生 人 到		
2018-2019学年春	40450551	科技英语写作	1	生命科学学	Scientific writing	and homework, will teach students the characteristics of good academic writing with a specific focus in scientific writing for the life sciences.
				院		
				11. A 71.07.07	N 1 1 1	The course will also review t Microbiology is a compulsory course for students in biology department. This course covers multiple
2019-2020学年秋	30450263	微生物学(英文)	3	生命科学学	Microbiology(in	disciplines in microorganism, molecular biology, biochemistry, immunology and microbial diseases.
		` ′		' 院	English)	Students taking this course will learn systematic knowled. This course aims to provide students with in-depth knowledge of the basic mechanisms of common human
		重大疾病的分子	1.	生命科学学	Molecular Basis of	
2019-2020学年秋	40450263	机制(英)	3	院	Human Diseases(in	•
		A 6 14 1 () C)	╀	174	English)	them for future translational research. The course f In-dimentional Euclidian spaces: point set and domain; multi-variable functions: limit and continuity; partial
2018-2019学年春	10421065	微积分A(2)	5	数学科学系		derivatives and total differentials, directional derivatives, gradients, vector value functions: differentials and
2010-2017于平台	10421003		ľ	数于杆于水	Calculus H(2)	
						chain rules, implicity functio Linear algebra II is mainly composed of linear space and linear transformation, and appropriately increases the
2018-2019学年春	10421102	线性代数(2)	2	数学科学系	Linear Algebra(2)	content of some modern algebra. This stage should be based on the first stage, focusing on cultivating abstract
			L	22.4	5 (-)	thinking ability and logical re
	l		١.	がなれがな		Linear algebra is a course intended primarily for engineering students. The course covers
2019-2020学年秋	10421324	线性代数	4	数学科学系	Linear Algebra	the theory of systems of linear equations, Gaussian elimination, the theory of matrices and their
			╀			computations, vector spaces and linear transformations, Euclidean This is the second course in the regular two-semester calculus sequence. It is the continuation of Calculus I (in
2018-2019学年春 10	10421215	微积分(2)(英)	15	数学科学系	Calculus (2)	English) and undertakes a careful treatment of more advanced topics in calculus. Those topics are: (1)
2010-2017-1-16	10121213		آ	290 3 11 3 700	Culculus (2)	
		线性代数((2)				Differentiation theory for Functions o This course is intended primarily for mathematics, science and engineering students, taught completely in
2018-2019学年春	10421232		2	数学科学系	Linear Algebra (2)	English. Through this course our student could learn to challenge themselves by learning to reason in other
		(英)	_			languages, both in English and in the m
2010 2020 兴年县	10421224	42 M. 12 W. (1) (##)	L			This course is intended primarily for mathematics, science and engineering students, taught completely in
2019-2020学年秋	10421224	线性代数(1)(英)	4	数学科学系	Linear Algebra (1)	English. Through this course our student could learn to challenge themselves by learning to reason in other
			┢			languages, both in English and in the m This is the first course in the regular two-semester calculus sequence offered by the Department of Mathematics.
2019-2020学年秋	10421305	微积分A(1)(英)	15	数学科学系	Calculus A(1)	Students entering the sequence usually major in the natural sciences, engineering, economics and other social
2019 2020 1 1 100	10.21000	100000000000000000000000000000000000000	ľ	X 1 1 1 1 X		sciences that require a high mat
						This is an introductory course on the basic concepts of Game Theory. Topics to be covered are:Combinatorial
						Game Theory,
						Games in Extensive Form,
2010 2010 ※ 欠害	00420102	A /	٦	火がないが、デ	C 151	2-person 0-sum games,
2018-2019学年春	00420183	博弈论	3	数学科学系	Game Theory	Bimatrix games,
						Nash Equilibrium,
						Correlated equilibrium,
						Evolutionary Game Theory.
					Foundation	This course, together with Soil Mechanics 1 describes the behaviour of engineering soils and simple geotechnical
2018-2019学年春	30040362	基础工程(英)	2	水利水电工 程系	Analysis and	structures such as shallow and piled foundations, retaining walls
2010-2017于平日	300 4 0302		-		Evaluation(in	and slopes.
			L		English)	This course simply introduces students to the subject of geotech

	ı	<u> </u>			Ī	Open Channel Steady Flow
						Flow classification, uniform flow, specific energy, subcritical flow, supercritical flow.
2019-2020学年秋	20040202	水力学(2)	١	水利水电工	11 1 1 (2)	Gradually varied flow, water surface profiles, numerical simulation.
2019-2020字年秋	30040393	(英)	3	程系	Hydraulics(2)	Rapidly varied flow,momentum principle, hydraulic jump.
						Open Channel u
		~ 中十万四年	Г	レルレムマ	Theories and	Remote sensing measurement of hydrological variables and processes represents one of the most challenging
2019-2020学年秋	40040853	遥感基本原理和	3	水利水电工	Applications of	research problems in Earth science. This course will introduce the basic concepts on remote sensing ranging
		方法		程系	Remote Sensing	from visible, near infrared, thermal inf
		结构矩阵分析			Programming	This course is about the computer-oriented analysis theory and method for skeletal structures. It covers the
2018-2019学年春	40030702	(英)	2	土木工程系	Analysis of	constraint matrix method for structural geometry stability analysis; the balance matrix method for the
	()				Structures(in	computation of internal forces in static de This course teaches design of timer structures. It is established based on the undergraduate course taught at
2018-2019学年夏	40021041	现代木结构设计	1	上ナナヂジ	Design of Timber	university of British Columbia, Canada, and important knowledge needed in the engineering practice of china are
2016-2019子牛友 4003104	40031041	(英)	1	土木工程系	Structures	supplemented. The maior contents
			Н		Transportation for	"Transportation for Tomorrow" course included in Tsinghua-KTH course "Creative Learning" is hosted by both
2019-2020学年秋	00030272	未来交通(C-	2	土木工程系	Tomorrow(C-	Tsinghua University and KTH. The course is innovative in the teaching mind and approach. Different from the
		Campus Course)	-	13/1-1/12/1	Campus Course)	conventional teaching pattern that focus
					Structural	conventional teaching pattern that focus This course is intended to provide the student majoring in civil, architectural and other related areas skills of
2019-2020学年秋	20030142	结构力学(2)(英)	2	土木工程系	Mechanics(2)(in	structural analysis at an intermediate level. It consists of three major topics: Matrix analysis of structures, Plastic
					English)	limit analysis and dy
2019-2020学年秋 30030493	钢结构(1)			Steel Structure (1)	This course is one of the most important specialised courses for undergraduates majoring in civil engineering. It	
	30030493	(英)	3	土木工程系	(in English)	mainly introduces principles of mechanism and design methods by means of lectures. More specifically, the
	()()	H		()	contents include: i) characteristic This course offers a broad introduction to materials used in civil engineering, including cement, concrete, steel,	
2019-2020学年秋	40020002	建筑材料(英)	2	土木工程系	Building Materials	masonry, asphalt concrete, wood and composites. The characteristics of each type of material are discussed in
2019-2020子平水	40030902					terms of the following aspects
		102 0 101 102	Н		T C	The course systematically introduces traffic survey methods, road capacity, traffic flow theory, transport
2019-2020学年秋	40030942	交通分析与交通		土木工程系	Traffic Analysis	modeling, traffic assignments, traffic flow management and traffic simulation theory and technologies, and
, , ,		设计			and Design	preliminary introductions of intelligent
2018-2019学年春	20020492	工程合同管理	2	土木工程系	Construction	Legal aspects of construction contracts and specifications; contract formation, interpretation, rights and duties,
2018-2019子平台	30030462	(英)	_	上 小上性於	Contracts	and changes; legal liabilities and professional ethics of architects, engineers, and contractors.
		莎士比亚戏剧选		外国语言文	Reading	This course introduces students to seven Shakespearean plays, and acquaints students with the stage conventions
2018-2019学年春	40641603	读	3	学系	Shakespeare	and cultural trends in Shakespeare's time. Students read the plays closely and discuss the themes, characters, key
		<u> </u>		1 34	Integrated Circuit	passages and dramatic skills [Integration density and performance of digital and analog integrated circuits have undergone an astounding
2019-2020学年秋	20260112	微电子工艺技术	٦	微电子与纳	Fabrication	revolution in the last few decades. Although innovative circuit and system design can account for some of these
2019-2020子平伙	30200112	(英)	~	电子学系		
		0. D. I. whith - I.	H		Processes Foundations of	performance increases, technology ha This course intends to introduce the analysis and design methodologies for the digital circuits and transistor-level
2019-2020学年秋	30260163	集成电路基础	3	微电子与纳	Integrated Circuit	digital integrated circuits. Firstly, the design approaches and design flow of digital integrated circuits are
2019 2020 7 7 70	00200100	(1)(英)		电子学系	(1)	Intesented Secondly Boolea
					Fundamentals of	As the seoned course on the fundamentals of physics, we shall make a systematic and serious introduction on
2018-2019学年春	20430234	基础物理学(2)	4	物理系	Physics (2)	Quantum Mehcanics, its historical developement, basic concepts and important principles and applications in
					1 Hysics (2)	modern physics. The students will have a As the first fundamental course on physics for the physics major and related science or engineering major
2010 202 3 11 - 31	20.42.22.	++	ا ۔ ا	d/	Fundamentals of	
2019-2020学年秋	20430225	基础物理学(1)	5	物理系	Physics (1)	students, we shall systematically study Mechanics, Special Relativity and Wave Optics, laying a solid foundation
			Ш		L , (-)	for future study of Physics and rela

					Physics(1)(in	We introduce Newtonian mechanics of both mass point and rigid body. After that a basic concept of Lagrangian
2018-2019学年春	10430344	大学物理(1)(英)	4	物理系	English)	mechanics will be introduced. Besides those, we will introduce the physics of oscillation, fluid, and waves
					Eligiisii)	including travelling wave, standing wa In the first half of the semester, we in this class focuses mainly on the theory on the electromagnetism, from
		1 34 44			Physics(2)(in	
2019-2020学年秋	10430354	大学物理(2)(英)	4	物理系	English)	Coulomb's Law to Maxwell equation. In the second half of the semester, we will introduce the basic concept of
					Ziigiioii)	the physical optic, special relat
2010 2020 光左柱	20420224	广义相对论的应		de em Z	Applications of	This course assumes the students are already familiar with Einstein's Field Equation and the physical basis
2019-2020学年秋	30430224	用	4	物理系	General Relativity	behind them. It is a logic continuation of the course "Introduction to General Relativity". This course covers in
		/ 13		並向上仕 極	· · · ·	details the most well-known appli
2018-2019学年春	春 30670552	英语新闻(3)		新闻与传播	English News(3)	This course is planned to be given by proper foreign teachers. The forign teacher will deliver the course in
				学院 新闻与传播		English, including(but not limited to) the media culture of UK and US, public relations and ads, speach and
2019-2020学年秋	30670612	英语新闻写作			~	This course is planned to be given by proper foreign teachers. The foreign teacher will deliver the course in
				学院	Writing A Humanistic	English, including (but not limited to) the media culture of UK and US, public relations and ads, speech and The course focus on on (a) understanding and appreciation of selected literary works, (b) the skillful art of the
2019-2020学年秋	14700052	英国文学的人文	2	新雅书院		use of language in such works, and (c) the cultural implications (philosophical, social, and cultural nuances) of
2019-2020子平秋	14/00033	理解	3	利性节院	Approach to	
					English Literature Guided Reading of	such works. And by such ap Novels are not just storytelling. The structure of the novel is a mode of thinking. The novel is the most basic
2019-2020学年秋	14700103	文学作品导读: 西方现代小说	3	新雅书院	Literary Works:	expression of the people's mind. It is also the tradition of oral inheritance at the beginning of human civilization
2017-2020于平水	14700103		5		Modern Fiction	and history followed by wr
					Wiodelli Fiction	English is an important tool for people in industry and academia of Biomedical Engineering. This course will
2018-2019学年夏	14000022	英文实践	2	医学院	English Practice	help the students in Department of Biomedical Engineering to enhance their ability to use English in professional
2010 2017 1 1 5	11000022		-		1 ~ 1	writing, report, and communicati
		人工与公司不分			Enterprise and	Enterprise engineering and information system modeling and analysis techniques are introduced in this course.
2018-2019学年春	40250942	企业与信息系统 建模分析	2	自动化系	Information System	These techniques are basic methods of system design/realization, industrial engineering, management and IT
		建模分析		10.37031		consulting for graduated students from The Networking and Associated Security Issues
					THE WILL	
						* Authentication
					Naturals Canadis	* Authorization
2018-2019学年春	40251052	网络安全基础	2	自动化系	Network Security	* Confidentiality
					Essentials	* Integrity
						* Non-repudiation
						* Engineering Issues in Naturark Security