

2022年本科生暑期学校课程信息

(截至4月13日, 共117门, 129门次)

*类型为A类课程仅对本专业或本校学生开放。

*类型为B、C类课程对校外开放。

序号	课号	课程名称	英文名	开课系所	班号	学分	授课教师	备注	类型
1	00332950	航空航天工业实习	Aerospace Industry Intern Program	工学院	1	3	黄迅, 刘才山, 程承旗, 周超, 史一蓬, 吕本帅, 陈帜, 赵皓, 李存标	具体安排按系里通知	A
2	00333050	金工实习	Metalworking Practice	工学院	1	3	邹如强	与能源专业合上	A
3	00333108	控制理论基础	Fundamentals of Control Theory	工学院	1	3	黄迅	Globex国际暑期项目(线上Canvas+Teams)	A
4	00333109	可持续性理论与实践	Sustainability Theory and Practices	工学院	1	3	Tracy Cui(校外)	Globex国际暑期项目(线上Canvas+Teams)	A
5	00333181	工程项目管理中的金融决策	Financial Decisions in Engineering Project Management	工学院	1	3	Daricha Sutivong(校外)	Globex国际暑期项目(线上Canvas+Teams)	A
6	00333390	生物医学工程实习	Biomedical Engineering Practice	工学院	1	3	孙红芳	具体安排按生医通知.	A
7	00333670	中国经济: 科技、增长与全球联系	China Economy: Technology, Growth and Global Connections	工学院	1	3	Susan Mays(校外)	Globex国际暑期项目(线上Canvas+Teams)	A
8	00333106	智能制造与服务系统	Intelligent Manufacturing and Service Systems	工学院	1	3	Andrew KUSIAK(校外)	Globex国际暑期项目(线上Canvas+Teams)	A
9	00333138	柔性化机器人: 从类人到软体	Compliant Robotics: from rigid links to soft	工学院	1	3	Hongbin LIU(校外)	Globex国际暑期项目(线上Canvas+Teams)	A

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10	00333712	电子商务数据驱动技术	Data Driven Techniques for e-Business	工学院	1	3	Wing Kuen SEE	Globex国际暑期项目（线上Canvas+Teams）	A
11	00432216	量子力学(II)	Quantum Mechanics (11)	物理学院	1	2	钱志新	第五周周一闭卷笔试	A
12	00437151	物理学暑期专题研讨	Selected Topics on Physics	物理学院	1	2	李定平	仅接收物理学科拔尖高校选派学生选课	B
13	01035280	化工新概念	New concept of modern chemical industry	化学与分子工程学院	1	1	马莲(校外)	化学楼A717	A
14	01131435	植物细胞发育	Plant Cell Development	生命科学学院	1	2	瞿礼嘉 Juan Dong	7月18日-7月29日 周1-周4上午上课，腾讯会议/Zoom	A
15	01132676	生物统计	Biostatistics	生命科学学院	1	3	成勤和(校外)	7月6到7月21，上午2，3，4节上课，Classin	A
16	01132679	产业实习实践	Industry practice	生命科学学院	1	3	王世强, 刘德英, 唐平	8月1日-8月7日，第1-8节，实践时间至少一个月。请关注“生声不息”微信公众号5月下旬发布的前期培训通知	A
17	01132685	衰老生物学	Biology of aging	生命科学学院	1	2	陶伟	7月4日-7月15日 上课，Classin线上授课	B
18	01133036	生命的逻辑	The logic of life	生命科学学院	1	2	白书农	7月4日-7月20日 上课，Classin线上授课	B
19	01134110	生态学野外实践	Field Practice of Forest and Wildlife Ecology	生命科学学院	1	2	王戎疆, 贺新强	6月25日-7月7日，1-12节，四川王朗自然保护区	A
20	01134140	生物学综合野外实习	Field Practice of Biology	生命科学学院	1	2	饶广远, 李大建	6月25日-7月7日 1-12节，四川王朗自然保护区	A
21	01134140	生物学综合野外实习	Field Practice of Biology	生命科学学院	2	2	顾红雅, 龙玉	6月25日-7月7日 1-12节，四川王朗自然保护区	A

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22	01134140	生物学综合野外实习	Field Practice of Biology	生命科学学院	3	2	孟世勇, 李晟	6月25日-7月7日 1-12节, 四川王朗自然保护区	A
23	01134140	生物学综合野外实习	Field Practice of Biology	生命科学学院	8	2	饶广远, 李大建, 顾红雅, 王戎疆	7月11日-7月18日 1-12节, 威海海洋研究院	A
24	01134140	生物学综合野外实习	Field Practice of Biology	生命科学学院	9	2	贺新强, 龙玉, 孟世勇, 李晟	7月11日-7月18日 1-12节, 威海海洋研究院	A
25	01230470	北斗系统与 时空智能	BDS-based Spatiotemporal Intelligence	地球与空间科学学院	1	2	陈秀万		B
26	01231640	普通地质实习A	Introduction to Field Geology	地球与空间科学学院	1	2	张志诚		A
27	01231641	普通地质实习A讨论班	Seminar on field geology	地球与空间科学学院	1	0	张志诚		A
28	01231641	普通地质实习A讨论班	Seminar on field geology	地球与空间科学学院	2	0	朱永峰		A
29	01231641	普通地质实习A讨论班	Seminar on field geology	地球与空间科学学院	3	0	黄宝春		A
30	01231641	普通地质实习A讨论班	Seminar on field geology	地球与空间科学学院	4	0	董琳		A
31	01231641	普通地质实习A讨论班	Seminar on field geology	地球与空间科学学院	5	0	张元元		A
32	01231800	区域地质实习	Geological Investigation & Mapping	地球与空间科学学院	1	4	何涛		A
33	01231911	三峡地区综合地质实习	Geology Excursions in the Three Gorges Region	地球与空间科学学院	1	2	关平, 孙元林, 刘建波, 薛进庄, 沈冰		A
34	01231912	五台山地区综合地质实习	Geology Excursions in the Wutai Region	地球与空间科学学院	1	2	魏春景, 张进江, 张波, 张贵宾		A
35	01233170	地震概论	Introduction to Seismology	地球与空间科学学院	1	2	赵克常		B
36	01233660	地球物理野外实习	Geophysical Field Practice	地球与空间科学学院	1	2	宁杰远		A
37	01235260	3S野外综合实习	Practice on RS, GIS and GPS	地球与空间科学学院	1	1	田原		A

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38	01533300	城乡地域空间认知实习	Regional Science: Practice of Theories and Models	城市与环境学院	1	1	阴劼		A
39	01536840	环境科学野外综合实习	Field Practice of Environmental Sciences	城市与环境学院	1	1	李喜青		A
40	01537530	普通地质实习	Field Practice of Physical Geology	城市与环境学院	1	1	张家富		A
41	01539340	地貌实习	Field Practice of Geomorphology	城市与环境学院	1	2	张家富		A
42	01630580	人际沟通分析学	Transactional Analysis	心理与认知科学学院	1	2	杨眉(校外)	腾讯会议线上授课	B
43	01630713	时间与认知	Time and Cognition	心理与认知科学学院	1	2	包燕	讨论型教室	A
44	01630725	系统论与系统式心理治疗	Systems Theory and Systematic Psychotherapy	心理与认知科学学院	1	2	李松蔚(校外)		A
45	01831990	跨文化交流学	Inter-cultural Communication	新闻与传播学院	1	2	许静, 李臻怡(校外)	北大教学网	B
46	01832150	媒体与国际关系	Media and International Relations	新闻与传播学院	1	2	陈开和	Classin	B
47	01834110	数据新闻	Data Journalism	新闻与传播学院	1	2	许静, 叶韦明(校外)	腾讯会议	B
48	01834310	宏观经济报道: 理论、问题与新闻评论	Macroeconomic Reporting: Theory, Issues and Opinion Pieces	新闻与传播学院	1	2	俞虹, 陈晋(校外)	北大教学网 class-in	B
49	01832910	视频编辑	Video Editing	新闻与传播学院	1	2	严富昌	新闻学院楼522机房 --补录	A
50	02034960	经学通论	General Theory of Classical Confucianism	中国语言文学系	1	2	顾永新	线上教学(腾讯会议)	B
51	02133200	圣经阿拉美文入门	Introduction to Biblical Aramaic	历史学系	1	2	林丽娟, 村冈崇光(校外)	开卷, 线上授课	B
52	02532600	经济学原理	Principle of Economics	经济学院	1	3	张元鹏	classin直播, 非专业、非通选, 7.31考试, 经院学生不可选	B

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53	02533710	会计学原理	Principle of Accounting	经济学院	1	3	张元鹏	classin直播, 7.31考试	B
54	02535500	经济学研究训练	Trainings on Economic Research	经济学院	1	2	刘政文	第三周周五考核	A
55	03132550	社会调查实践	Practise	社会学系	1	4	张帆		A
56	03631990	速成法语(零基础)	French for Reading from scratch	外国语学院	1	2	孙凯	线下随堂考试	A
57	03633331	西班牙语及西班牙文化	Introduction to the Spanish Language and Culture	外国语学院	1	2	宋扬	腾讯会议	B
58	03636900	意大利语言和文化	Italian Language and Culture	外国语学院	1	2	成沫, GUIMARRA GIUSEPPINA (校外)	7月20日线上笔试	B
59	03835983	世界英语与英语世界	World Englishes and the English World	大学英语教研室	1	2	徐志长(校外)	线上教学	C
60	03835988	文化人类学概论	Introduction to Cultural Anthropology	大学英语教研室	1	2	雷静(校外)		C
61	03835610	法律英语	Legal English	英语语言文学系	1	2		线上授课(腾讯会议) --补录	C
62	04130030	太极拳	Shadowboxing	体育教研部	1	1	杜军明	男生班 五四317	A
63	04130030	太极拳	Shadowboxing	体育教研部	2	1	杜军明	男生班 五四317	A
64	04130040	健美操	Aerobics	体育教研部	1	1	黄育	女生班 五四317	A
65	04130040	健美操	Aerobics	体育教研部	2	1	黄育	女生班 五四317	A
66	04130210	棒、垒球	Baseball	体育教研部	1	1	焦晨曦	一体足球场	A
67	04130210	棒、垒球	Baseball	体育教研部	2	1	焦晨曦	一体足球场	A
68	04830145	计算机组织与体系结构实习	Lab on Computer Organization and Architecture	信息科学技术学院	1	2	刘先华		A

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69	04830310	人机交互	Human-Computer Interaction (HCI)	信息科学技术学院	1	2	汪国平		B
70	04833310	集成电路逻辑综合实验	logic synthesis labs	信息科学技术学院	1	2	贾嵩	线上实验	B
71	04833720	基于IP的SOC设计实验	SOC design labs	信息科学技术学院	1	2	贾嵩	线上实验	B
72	04833730	集成电路的物理设计实验	Place and route labs	信息科学技术学院	1	2	贾嵩	线上实验	B
73	04834440	智能计算系统	AI Computing Systems	信息科学技术学院	1	2	王源	线上教学	B
74	04834500	量子信息技术概论	Introduction to Quantum Information Technology	信息科学技术学院	1	2	吴腾	class In 线上教学	B
75	04834710	自旋与超导量子技术导论	Introduction to Spintronic and Superconducting Quantum Technology	信息科学技术学院	1	2	王润声	与校外老师合上	A
76	06239083	经济学社会实践	Field Work in Economic Study	国家发展研究院	1	2	徐晋涛, 蒋少翔	实际实践时间预计在7月4日至20日左右, 详见后续通知。	A
77	06239139	量化金融专题	Topics in Quantitative Finance	国家发展研究院	1	2	Tai	线上授课	B
78	06733020	游戏化创新思维	The innovation thinking of Gamification	教育学院	1	2	尚俊杰	线上授课, 腾讯会议	B
79	06734030	大学经历与学生发展	College Experience and Student Development	教育学院	1	2	鲍威		A
80	12632140	生态学控制实验野外实习	Field Experiments in Global Change Ecology	城市与环境学院	1	2	贺金生		A

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81	12633070	自然地理综合实习	Integrated Practice of Physical Geography	城市与环境学院	1	2	蒙古军		A
82	12633130	陆面过程模型和植被遥感实习	practice of land surface model application and vegetation remote sensing	城市与环境学院	1	2	王旭辉	6月27日 - 7月8日 (周末除外), 上午9:00-12:00, 下午1:30-4:00	A
83	12634080	人文地理专业综合实习	Comprehensive Practice of Human Geography	城市与环境学院	1	1	曹广忠, 冯长春	预计6月下旬期末考试后出发, 持续7-10天, 以后续通知为准	A
84	12634090	人文地理综合社会实践实习	Social and Professional Practice of Human Geography	城市与环境学院	1	1	曹广忠	预计是7月-8月, 具体时间由所分配导师确定	A
85	12635390	美术实习	Practice of Fine Arts	城市与环境学院	1	2	沈文权		A
86	12639010	综合社会实践实习	Comprehensive Social Practice Practicum	城市与环境学院	1	1	林坚		A
87	12739040	环境综合实习一	Environmental Integrated Fieldwork One	环境科学与工程学院	1	1	刘兆荣, 赵志杰, 刘文	预计6.26-7.8 (含外出实习和返校实验及汇报)	A
88	12739060	环境综合实习二	Environmental Integrated Fieldwork Two	环境科学与工程学院	1	1	刘兆荣, 许伟光, 王婷, 梁宝生	预计7.6-7.22 (含外出实习和返校实验及汇报)	A
89	18730010	社会调查实务	Social Surveys Practices	中国社会科学调查中心	1	2	丁华, 孙妍, 吴琼, 陈欣欣, 吕萍	校内20人, 校外50人。classin平台授课。	B
90	18730020	社会调查数据分析方法	The Analysis Methods of Social Survey Data	中国社会科学调查中心	1	2	顾佳峰, 任强, 孔涛, 吴琼, 陈欣欣, 任莉颖 (校外)	校内20人, 校外100人。classin平台授课。	B

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91	19530004	城乡建成环境文化遗产研究与实践调查	Urban and Rural Built Environmental Cultural Heritage Research and Practice Investigation	建筑与景观设计学院	1	2	汪芳	上课名单需面试遴选确定,选课同时请给授课老师(wfphd@pku.edu.cn)发邮件,以便留下联系方式。	A
92	21100007	中国农村教育问题专题	Lectures on Rural Education in China	现代农学院	0	2	易红梅	ClassIn在线授课,7月4-11日:上午8:00-12:00;下午14:00-16:00,具体以开课前通知为准	B
93	21100013	水资源稀缺经济和政策分析	Economy of Water Scarcity and Policy Analysis	现代农学院	0	2	王金霞	腾讯会议在线授课,7月25日-8月1日上午8:00-12:00	B
94	21100040	环境经济学前沿与阅读写作	Advances, literature review and writing on environmental economics	现代农学院	1	2	侯玲玲	腾讯会议在线授课,7月14日至7月23日每天9点-12点 --补录	B
95	21130001	植物发育及分子生物学	Plant Development and Molecular Biology	现代农学院	0	2	邓兴旺,林辰涛(校外),乔红(校外),赵云德(校外),DONG JUAN(校外)	腾讯会议在线授课,上课时间7月4日-9日上午8点-11点,晚上7点到10点	B
96	21130002	植物知道生命的答案	What A Plant Knows:The surprising world of plant senses	现代农学院	0	2	Daniel Chamovitz(校外)	zoom在线授课,7月10日-7月14日,每天14:00-17:00,18:00-21:00	B
97	21130011	经济学视角下的资源环境热点问题	Hot Topics on Natural resources and the Environment from economics perspectives	现代农学院	0	2	侯玲玲	腾讯会议在线授课,7月4日-11日,共8天,上午10点-12点,下午2点-4点	B

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98	21130013	经济学模型 CGE的基本原理及优化软件GAMS编程	Principles of CGE model and Programming	现代农学院	0	2	解伟	腾讯会议在线授课	B
99	21130015	管理经济学基础	Economic Principal for Management	现代农学院	0	2	SHENGYU	腾讯会议在线授课	B
100	21130016	食物安全: 政治经济学和心理学研究	Food Security: Political Economics and Psychology	现代农学院	0	2	王晓兵	腾讯会议在线授课, 7月25日-30日 9:00am-11:30am; 14:00pm-16:30pm ;7月31日 9:00am-11:00am	B
101	21130018	植物大迁徙	The Great Plant Migrations	现代农学院	0	2	周岳	腾讯会议在线授课, 7月11日-7月15日上午 9:00-12:00, 下午 2:00-5:00	B
102	02031540	中国古代文化	Ancient Chinese Culture	教务部	1	2	廖可斌	线上授课, 腾讯会议。前两周每周一、二、四、五, 每天1、2节和5、6节。	B
103	02335200	庄子哲学	Philosophy of Zhuang Zi	教务部	1	2	郑开	线上授课, 腾讯会议	B
104	02335261	荷马史诗的伦理学	Ethics of Homeric Epics	教务部	1	2	陈斯一	线上授课, 腾讯会议	B
105	02335330	世界文明中的科学技术	Science And Technology in World Civilizations	教务部	1	2	周程, 周程	在线授课, 腾讯会议 --补录	B
106	30340100	意大利文艺复兴艺术	Italian Renaissance Art	教务部	1	2	刘晨(校外)	线上授课, 腾讯会议	B
107	30340103	《资治通鉴》导读	ZI ZHI TONG JIAN Guide	教务部	1	2	姜鹏(校外)	线上授课, 腾讯会议	B
108	30340105	《三国志》与三国史	San Guo Zhi and the History of the Three Kingdoms	教务部	1	2	仇鹿鸣(校外)	在线授课, 腾讯会议 --补录	B

序号	课号	课程名称	英文名	开课系所	班号	学分	授课教师	备注	类型
109	30340106	中国现当代小说选读	Selected Readings of Chinese Modern Fiction	教务部	1	2	金理(校外)	在线授课, 腾讯会议。7.4-7.15的每周一、二、四、五, 每天3、4节和5、6节 --补录	B
110	06732040	经济学视角下的教育世界	Economics of Education	教务部	1	2	马莉萍	线上授课, 腾讯会议	B
111	01834300	媒体与中国社会	Media and Society in China	教务部、国际合作部	1	3	陈开和	线下授课。上午2-4节授课; 下午讨论, 每周共20学时, 讨论时间安排以老师开课时公布为准。	国际课程
112	02432090	本土视野下的中国外交与国际事务	Chinese Perspective on International and Global Affairs	教务部、国际合作部	1	3	陈长伟	线上授课。上午2-4节授课; 下午讨论, 每周共20学时, 讨论时间安排以老师开课时公布为准。	国际课程
113	02534380	应用经济计量	Applied Econometrics	教务部、国际合作部	1	2	秦雪征	线上授课	国际课程
114	02535030	企业全面风险管理	Enterprise Risk Management	教务部、国际合作部	1	2	陈凯	线上授课, 先修课 Risk Management, Finance, Calculus, Probability	国际课程
115	02535620	“一带一路”和新结构经济学视角下的国际实践	BRI and the international practice from the perspective of New Structural Economics	教务部、国际合作部	1	3	于佳	线下授课。上午2-4节授课; 下午讨论, 每周共20学时, 讨论时间安排以老师开课时公布为准。	国际课程
116	12739120	中国环境挑战	Environmental Challenges in China	教务部、国际合作部	1	2	郑玫	线上授课	国际课程

序号	课号	课程名称	英文名	开课系所	班号	学分	授课教师	备注	类型
117	21130017	发展经济学及其在中国的实践	Development Economics and Its Practice in China	教务部、国际合作部	1	3	刘承芳	线下授课。上午2-4节授课；下午讨论，每周共20学时，讨论时间安排以老师开课时公布为准。	国际课程
118	30340009	中国民俗与文化	Chinese Folklore and Culture	教务部、国际合作部	1	2	王娟	线上授课	国际课程
119	30340028	转型时期的中国公共政策	Transition and Public Policy in China	教务部、国际合作部	1	2	李永军	线下授课	国际课程
120	30340048	中国传统认同与其现代变迁	Chinese Traditional Identity and its transformation after 1949	教务部、国际合作部	1	2	孙飞宇	线下授课	国际课程
121	30340052	中国传统健身、饮食与养生	Chinese Traditional Body Exercise, Diet and Health Preservation	教务部、国际合作部	1	2	王东敏	线下授课	国际课程
122	30340056	镜中观花：中国人的价值观	FLOWER IN THE MIRROR: THE CHINESE VALUES	教务部、国际合作部	1	3	韩金鹏	线上授课。上午2-4节授课；下午讨论，每周共20学时，讨论时间安排以老师开课时公布为准。	国际课程
123	30340059	中国古典诗词	Classical Chinese Poetry	教务部、国际合作部	1	2	梅申友	线上授课	国际课程
124	30340076	中国现当代小说与电影	Modern Chinese Fiction through Film	教务部、国际合作部	1	2	马乃强	线上授课	国际课程
125	30340082	“中国崛起”专题研讨课	The Rise of China and Change in World Politics	教务部、国际合作部	1	3	徐昕(校外)	线上授课	国际课程
126	30340094	中国改革与世界经济	China in the Global Economy	教务部、国际合作部	1	3	陈绍锋	线上授课。上午2-4节授课；下午讨论，每周共20学时，讨论时间安排以老师开课时公布为准。	国际课程

序号	课号	课程名称	英文名	开课系所	班号	学分	授课教师	备注	类型
127	3034009 5	中国经济导论	Introduction to Chinese Economy	教务部、国际合作部	1	3	季曦	线下授课。上午2-4节授课；下午参观讨论，每周共20学时，时间安排以老师开课时公布为准。	国际课程
128	3034009 5	中国经济导论	Introduction to Chinese Economy	教务部、国际合作部	2	3	刘民权	线上授课，观看录播10次(共计20学时)+直播授课10次(共计30学时)，另安排1学时在线讨论等。	国际课程
129	3034009 6	中国传统表演艺术	Arts of Chinese Traditional Performance	教务部、国际合作部	1	3	张新亚(校外)	线上授课。上午2-4节授课；下午讨论，每周共20学时，讨论时间安排以老师开课时公布为准。	国际课程

课程号 (Course Number) : 00332950

课程名称 (Course Title) : 航空航天工业实习/Aerospace Industry Intern Program

开课院系 (School/Department) : 工学院/College of Engineering

学分 (Credits) : 3

授课教师(Faculty): 黄迅 教授 Professor, 刘才山 教授 Professor, 程承旗 教授 Professor, 周超 长聘副教授, 史一蓬 教授 Professor, 吕本帅 助理教授, 陈帜 助理教授, 赵皓 助理教授, 李存标 教授 Professor

先修课程 (Prerequisites) : 无

中文简介:

组织高年级本科生参观和访问航空和航天中有代表性的工业单位，在条件（保密、时间）允许的情况下适当从事科研实践活动，从而对我国航空航天研究、发展和生产单位建立一定的了解，为学生下一步在个人感兴趣的航空航天子课题上继续深入学习和研究指明方向。

英文简介 (Course Description) :

This course will organize several visitings and intern programmes of aerospace industry for junior undergraduates. These activities are designed to help our students deep understanding and build up an overview of Chinese aerospace industry, which could in turn guide their study and research in the near future.

-End-

课程目录Course Catalog

课程号 (Course Number) : 00333050
课程名称 (Course Title) : 金工实习/Metalworking Practice
开课院系 (School/Department) : 工学院/College of Engineering
学分 (Credits) : 3
授课教师 (Faculty) : 邹如强 教授 Professor

先修课程 (Prerequisites) : 无

中文简介:

本课程共60学时3学分, 学生暑期完成。教师授课和工厂实习同时进行, 教师授课占22学时, 工厂实习占38学时。主要培养学生金属加工和机械操作的基本技能。通过金工实习使学生了解实验安全、工艺技术及工业机械操作的基本知识和流程。课程共分十个章节, 包括铸造、焊接、钢的热处理、切削加工基本知识、车工、铣工、刨工、磨工、钳工、数控加工技术等实践内容。

英文简介 (Course Description) :

This is a one-semester course designed to introduce the student to basic metal working and machining concepts. This hands-on course will introduce students to many metal characteristics and machining procedures. Students will learn safety, craftsmanship, and an appreciation of the machining industry. The class includes casting, welding, cutting, lathe, milling machine, planing machine, and digital control machining techniques etc.. The experience and knowledge gained in this course will begin to develop an appreciation of industrial design, craftsmanship, orderly procedures, safe work habits, pride in their work, integrity, proper work ethic, and an understanding of hand and power tools used in the metals shop.

-End-

课程号 (Course Number) : 00333108
课程名称 (Course Title) : 控制理论基础/Fundamentals of Control Theory
开课院系 (School/Department) : 工学院/College of Engineering
学分 (Credits) : 3
授课教师 (Faculty) : 黄迅 教授 Professor

先修课程 (Prerequisites) : 微积分, 线性代数

中文简介:

向工科本科生介绍经典和现代控制理论的基础知识，同样适合动力学与控制专业的研究生。先修课程微积分和线性代数。电子电路、信号和处理方面的知识也会对本课程有所帮助。此外，还将介绍新兴的基于机器学习的控制方法，主要是通过完成设计软件任务，学生应该有使用Python或其他类似编程语言的经验。本课程可作为工学院航空航天工程系本科生选修课。

英文简介 (Course Description) :

Introduce the fundamentals of classical and modern control theories to undergraduates in Engineering. The graduate students in dynamics and control are also welcomed if their undergraduate trainings were not in control. The pre-requisite course is calculus and linear algebra. Knowledge in electronic circuits and signal and processing will be helpful too, but will be summarized in this tutorial when it is necessary. In addition, the emerging machine learning-based control methods will be introduced, mainly through the successful completion of the designed software tasks. Hence, students are expected to have experience with Python or other similar programming language. This course can act as an elective course for undergraduates of the Department of Aeronautics and Astronautics.

-End-

课程号 (Course Number) : 00333109

课程名称 (Course Title) : 可持续性理论与实践/Sustainability Theory and Practices

开课院系 (School/Department) : 工学院/College of Engineering

学分 (Credits) : 3

授课教师 (Faculty) : Tracy Cui (校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

本课程将向学生介绍当前和未来能源供需的可持续性。课程将利用案例研究和实例，重点介绍可持续性理论和实践、二氧化碳排放和气候变化，当前和未来能源需求、高收入和低收入国家能源部门的未来挑战和机遇，跨学科和跨部门参与发展，以及这些解决方案如何影响社会、经济和环境。这门课程将由Rod Bain博士教授，并将邀请相关领域客座专家参与。

英文简介 (Course Description) :

This course will introduce students to sustainability in the context of energy supply and demand both now and in the future. Using case studies and practical examples, the course will focus on sustainability theory and practice, current and future energy demands in terms of CO2 emissions and climate change, future challenges and opportunities in the energy sector for high and low income countries, trans/interdisciplinary and cross sectoral engagement in the development of energy solutions, and how these solutions may affect society, economies and the environment. This course will be led by Dr Rod Bain and will feature lectures from a range of experts

from across the university.

-End-

课程号 (Course Number) : 00333181

课程名称 (Course Title) : 工程项目管理中的金融决策/Financial Decisions in Engineering Project Management

开课院系 (School/Department) : 工学院/College of Engineering

学分 (Credits) : 3

授课教师 (Faculty) : Daricha Sutivong(校外) 待定

先修课程 (Prerequisites) :

中文简介:

本课程主要介绍了在项目评估中广泛使用的金融技术。基于货币时间价值观念，该课程探讨如何分析和评估各种现金流模式，并提供项目评估和决策的常用方法，包括净现值、收益率，以及单一或多个项目决策的应用规范。该课程还涉及使用盈亏平衡分析，敏感性分析，决策树等方法在不确定环境下决策问题。学生将有机会在一个团队项目中对他们感兴趣的问题进行财务分析，创建管理报告并进行展示。

英文简介 (Course Description) :

The course introduces widely-used financial techniques for project evaluation. Based on the time value of money concept, the course examines how to analyze and value various cash flow patterns and provides popular economic measures for project assessment and selection, including the net present value and the rate of return, along with the application criteria for single and multiple project decisions. The course also addresses decision under uncertainties using techniques such as breakeven analysis, sensitivity analysis, decision tree, etc. Students will have an opportunity to perform a financial analysis of their interested problem in a group project and creating management report and presentation.

-End-

课程号 (Course Number) : 00333390

课程名称 (Course Title) : 生物医学工程实习/Biomedical Engineering Practice

开课院系 (School/Department) : 工学院/College of Engineering

学分 (Credits) : 3

授课教师 (Faculty) : 孙红芳 高级工程师 Senior Engineering

先修课程 (Prerequisites) : 高等数学、大学物理、分子与细胞生物学、解剖学

中文简介:

本课程在美国佐治亚理工大学的生物医学工程系进行。本科生在那里会进不同的实验室直接参与科研活动,同时选修一至两门相关实验类课程。课程也安排参观世界一流实验室或科研设施,和本领域著名学者直接面对面讨论和交流。

英文简介 (Course Description) :

This course is taken at Georgia Institute of Technology at Atlanta. All undergraduates will be assigned a research lab to take part in various projects. They also will take one or two experimental courses. In the meantime, students have opportunities to visit cutting-edge research facilities, and discuss with world-famous scientists face to face.

-End-

课程号 (Course Number) : 00333670

课程名称 (Course Title) : 中国经济: 科技、增长与全球联系/China Economy: Technology, Growth and Global Connections

开课院系 (School/Department) : 工学院/College of Engineering

学分 (Credits) : 3

授课教师 (Faculty) : Susan Mays (校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

本课程介绍中国在全球化背景中的经济发展。通过授课、案例分析、访问机构和企业,本课程将考察贸易趋势、外国投资、公私产权、金融、劳动力、消费以及关键商业部门等问题。课程还将讨论中国在教育、能源、医疗及环境方面的挑战与机遇。本课程由经济历史学家教授,将考虑中国独特的历史、文化和商业背景,以及全球合作与影响。课程的阅读材料和案例来自学者、商业领袖、经济学家和记者。

英文简介 (Course Description) :

The course addresses China's economic and technological development in a global context, circa 1978 to the present. It examines major trends in the economy and society, including trends in income, the workforce, trade, foreign investment, and ownership (i.e., public vs. private.) The class presents China's progress and challenges in education, healthcare, family economics, environment and law. In all these topics, the course

considers China's unique history and culture while also addressing the role of technology and global partnerships. The final week includes a trip to the Shanghai region to visit tech-related organizations.

-End-

课程号 (Course Number) : 00333106

课程名称 (Course Title) : 智能制造与服务系统/Intelligent Manufacturing and Service Systems

开课院系 (School/Department) : 工学院/College of Engineering

学分 (Credits) : 3

授课教师 (Faculty) : Andrew KUSIAK(校外) 待定

先修课程 (Prerequisites) : 不需要先修其他课程

中文简介:

制造业和服务业正在向更大的服务导向和自主性转型。传感器和无线技术捕获数据的应用在各个行业都在增长。该课程对新出现的系统配置进行分析、优化和设计，讨论了支持智能制造和商业系统设计和分析的模型、方法和算法，介绍了数据科学、计算智能、云计算和各种x-as-a-service系统。

英文简介 (Course Description) :

Manufacturing and service industry is undergoing a transformation towards greater service orientation and autonomy. The use of sensors and wireless technologies capturing data is growing across industries. Emerging configurations of systems are analyzed, optimized, and designed. Models, methodologies, and algorithms in support of design and analysis of intelligent manufacturing and business systems are discussed. Data science, computational intelligence, cloud computing, and diverse x-as-a-service systems are introduced.

-End-

课程号 (Course Number) : 00333138

课程名称 (Course Title) : 柔性化机器人: 从类人到软体/Compliant Robotics: from rigid links to soft

开课院系 (School/Department) : 工学院/College of Engineering

学分 (Credits) : 3

授课教师 (Faculty) : Hongbin LIU(校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

传统的工业机器人被设计成尽可能刚性，以确保良好的运动精度；然而，由于其巨大的刚性，

在与人类近距

离操作时可能会造成危险。此外，随着机器人将其领域扩展到医疗保健和家庭服务领域，安全性、适应性和

能源效率成为首要问题。为了应对这些挑战，科学家们正在开发新一代顺应式机器人，从刚性连杆机器人发

展为柔性和软性机器人。本课程旨在为学生提供刚性连杆到柔性机器人建模、感知、交互控制和路径规划的

基本知识。本课程包括一个实践编码练习，以促进解决实际问题的算法的实现。

英文简介 (Course Description) :

Traditional industrial robots have been designed to be as rigid as possible to ensure good motion

precision; however, because of the massive rigidity, it can make them dangerous when operating

in close proximity with humans. Further, as robots expand their domain into healthcare and

home service, the issues of safety, adaptability and energy efficiency become a primary concern.

To address these challenges, scientists are developing a new generation of compliant robots,

evolving from rigid-link robots to flexible and soft robots. This course aims to provide students

with an essential knowledge for rigid-link to compliant robotic modeling, perception, interactive

control and path planning. This course involves a hands-on coding exercise to facilitate the implementation of algorithms for solving real-world problems.

-End-

课程号 (Course Number) : 00333712

课程名称 (Course Title) : 电子商务数据驱动技术/Data Driven Techniques for e-Business

开课院系 (School/Department) : 工学院/College of Engineering

学分 (Credits) : 3

授课教师 (Faculty) : Wing Kuen SEE 待定

先修课程 (Prerequisites) : 不需要先修其他课程

中文简介:

This course introduces the fundamentals of data driven techniques for e-business.

Students will learn from this course the essential techniques for e-business

organizations to make use of the now available big data streams about their customers.

Big data has emerged as critical source of competitive advantage for e-business, and

as a system of knowledge that is already changing the objects of knowledge and promises to bring new insights to our understanding of human networks and communities. Data driven techniques provide the ability to gain insight from such large scale, and fast changing data streams derived from phenomena where the underlying objects of interest are related in a complex manner. In the digital world, our every browse, every click, every review we read and write, every purchase we make, and so much more are all stored in the databases of relevant organizations. Leveraging from this digital archive, organizations use data driven techniques to learn about us, and to provide us with ever smarter and better experience. This course aims at familiarizing students with the latest developments and innovations in this fast growing area of data driven techniques in e-business, and equipping them with relevant knowledge and skills for the corresponding real life applications.

英文简介 (Course Description) :

本课程介绍电子商务中数据驱动技术的基础知识。学生将从本课程中学习电子商务组织利用现有客户大数据流的基本技术。大数据已经成为电子商务竞争优势的关键来源，作为一个知识体系，它已经在改变知识的对象，并有望为我们对人类网络和社区的理解带来新的见解。数据驱动技术提供了从如此大规模、快速变化的数据流中获得洞察力的能力，这些数据流来自于底层感兴趣的对象以复杂方式关联的现象。在数字世界中，我们的每一次浏览、每一次点击、每一次读写评论、每一次购买，等等，都存储在相关组织的数据库中。利用这个数字档案，组织使用数据驱动的技术来了解我们，并为我们提供更智能、更好的体验。本课程旨在让学生熟悉电子商务中数据驱动技术这一快速发展领域的最新发展和创新，并为他们提供相应的实际应用相关知识和技能。

-End-

课程号 (Course Number) : 00432216

课程名称 (Course Title) : 量子力学 (II)/Quantum Mechanics (II)

开课院系 (School/Department) : 物理学院/School of Physics

学分 (Credits) : 2

授课教师 (Faculty) : 钱志新 副教授 Associate Professor

先修课程 (Prerequisites) : 量子力学 I

中文简介:

在量子力学 I 的基础上，介绍He原子和多电子原子的基本理论，主要讨论量子力学中的微扰理论和变分方法；Hartree 理论，Hartree-Fock 理论和Thomas-Fermi理论。双原子分子、多原子分子的转动谱和振动谱。价键理论的基本概念。介绍量子力学中的Feynman 路径积分方法（以自由粒子和谐振子为例）。介绍WKB近似，Bohr 量子化条件，势垒的隧穿。量子力学里态的相干态描述；介绍量子力学中的相位，包括Aharonov-Bohm 效应的实验观察；引力导致的量子力学相位效应；Berry 相和 Aharonov-Anandan 的介绍。讨论量子力学中的密度矩阵理论和Wigner函数的概念。

英文简介 (Course Description) :

This course is intended for senior undergraduate students or motivated junior undergraduate students in physics major or chemistry major who have completed the study of the one-semester course of quantum mechanics. The level is more advanced than the usual course of quantum mechanics. Several topics listed below will get discussed at a high level. The method of the perturbation theory and the variational theory in quantum mechanics will be presented at the beginning. Introductory materials to the study of the atom of helium and those with more than two electrons are then presented the next. The methods of Hartree theory, Hartree-Fock theory, and Thomas-Fermi theory are discussed; quantum mechanical many-body theory is presented but at the level of an introduction. The main topics further cover several other basics in the quantum chemistry, like the rotation and vibration of a diatom molecule and other small (and somehow simple) molecules. The path integral approach of Feynman to quantum mechanics is discussed. The course also include the subjects on the semi-classical methods such as WKB approximation; the application of them to bound states and scattering states is discussed. The final part of this course is devoted specifically to the topic on phases in quantum mechanics. After introducing the concept of phase in quantum mechanics, we discuss their effects in the Aharonov-Bohm experiments and other important experiments. On theoretical aspect, we introduce and discuss the concepts of the Berry phase and the Aharonov-Anandan phase. The theory of density matrix and the introduction to the Wigner function might also be presented in the course, though not always.

-End-

课程号 (Course Number) : 00437151

课程名称 (Course Title) : 物理学科暑期专题研讨/Selected Topics on Physics

开课院系 (School/Department) : 物理学院/School of Physics

学分 (Credits) : 2

授课教师 (Faculty) : 李定平 教授 Professor

先修课程 (Prerequisites) : 无

中文简介:

物理学院举办的物理学、大气与海洋科学、天文学、核科学与技术领域的暑期学校；授课时间超过34学时，记2学分。

英文简介 (Course Description) :

Selected Topics on Physics

-End-

课程号 (Course Number) : 01035280

课程名称 (Course Title) : 化工新概念/New concept of modern chemical industry

开课院系 (School/Department) : 化学与分子工程学院/College of Chemistry and Molecular Engineering

学分 (Credits) : 1

授课教师 (Faculty) : 马莲(校外) 待定

先修课程 (Prerequisites) : 化学化工相关课程

中文简介:

本课程老师根据自己多年的现代跨国企业职业生涯经验，以现代跨国公司为例，介绍现代化工企业的创新及可持续发展。并通过举例阐述现代化工行业与其他工业行业之间的相互关系及化工未来发展趋势。最后详细介绍新时代人才所需具备的基本素质以及求职和职业规划。

本课程以讲课，学生小组讨论及学生演讲等多种形式进行。以期达到在学习知识的同时提高学生各方面的能力和见识！

让学生们对现代国际化的化工行业及化工公司的发展理念，基本构架及运营有一个全面及深入的了解

介绍新时代人才的基本素质需求，以及未来职业发展的设计与规划，从而帮助学生们更容易进入现代化企业，且更快的适应现代化企业的工作要求及节奏，及早成为合格的现代化工业人才！

英文简介 (Course Description) :

*Introduce the development and operation of modern chemical industry, in order to help student getting an insight of the industry branch.

*Introduce the basic requirement for an employee and its career develop pass with the modern chemical industry, to help fresh graduate finding its way to get in the companies and developing themselves better!

-End-

课程号 (Course Number) : 01131435

课程名称 (Course Title) : 植物细胞发育/Plant Cell Development

开课院系 (School/Department) : 生命科学学院/College of Life Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 瞿礼嘉 教授 Professor, Juan Dong(校外) 待定

先修课程(Prerequisites): Interested in plant sciences, molecular biology, biochemistry, cell biology and genetics are required.

中文简介：

全面介绍当代植物生物学研究基础与进展，包括研究方法学、分生组织\胚胎等发育过程、激素调控、表观遗传学等最新内容。

英文简介 (Course Description) :

The course will cover major aspects of the modern plant biology from basics to most recent development, which includes new development in methodology, plant developmental processes such as meristems and embryo, regulation of phytohormones and epigenetic control of plant responses to the environment, and etc.

-End-

课程号 (Course Number) : 01132676

课程名称 (Course Title) : 生物统计/Biostatistics

开课院系 (School/Department) : 生命科学学院/College of Life Sciences

学分 (Credits) : 3

授课教师 (Faculty) : 成勤和(校外) 待定

先修课程 (Prerequisites) : Math courses at undergraduate level for non-math majors

中文简介：

This course provides some of the most important topics in analyzing data often seen in biological research. Specific topics are

- Random events and probability distributions
- Confidence interval estimations
- Hypothesis testing and its application to group comparisons
- Issues of power and sample size
- Study design and analysis of variance
- Regression methods and correlation analysis
- Categorical data analysis
- Nonparametric statistical methods
- Survival analysis

This course introduces a statistical software (R), with plenty of examples and lab sessions for analyzing data and implementing the topics of this course. This course also encourages active participations from the students with sessions of problem solving, research paper discussion, and group projects.

英文简介 (Course Description) :

This course provides some of the most important topics in analyzing data often seen in biological research. Specific topics are

- Random events and probability distributions

- Confidence interval estimations
- Hypothesis testing and its application to group comparisons
- Issues of power and sample size
- Study design and analysis of variance
- Regression methods and correlation analysis
- Categorical data analysis
- Nonparametric statistical methods
- Survival analysis

This course introduces a statistical software (R), with plenty of examples and lab sessions for analyzing data and implementing the topics of this course. This course also encourages active participations from the students with sessions of problem solving, research paper discussion, and group projects.

-End-

课程号 (Course Number) : 01132679

课程名称 (Course Title) : 产业实习实践/Industry practice

开课院系 (School/Department) : 生命科学学院/College of Life Sciences

学分 (Credits) : 3

授课教师 (Faculty) : 王世强 教授 Professor, 刘德英 副教授 Associate Professor, 唐平 讲师 Lecturer

先修课程 (Prerequisites) : 无

中文简介:

本课程主要内容为, 组织学生赴产业相关单位进行不少于4周的实习实践, 并在实践前进行相关技能培训, 实践后进行总结报告。目的是引导学生通过亲身实践深入了解产业运作模式和发展方向, 树立个人职业发展目标, 进而合理规划学业和职业生涯。

英文简介 (Course Description) :

The main content of this course is to organize students to go to industry enterprises for at least four weeks of practice. Students should be trained in relevant skills before practice. After practice, students need to make a summary report. Through summer internship in enterprises, this course will guide students to deeply understand the operation mode and development direction of enterprises. Through personal practice, students will establish personal career development goals, and then rationally plan their academic and career.

-End-

课程号 (Course Number) : 01132685

课程名称 (Course Title) : 衰老生物学/Biology of aging
开课院系 (School/Department) : 生命科学学院/College of Life Sciences
学分 (Credits) : 2
授课教师 (Faculty) : 陶伟 教授 Professor

先修课程 (Prerequisites) : 具备基本的细胞生物学和遗传学的基本知识。

中文简介:

随着我国以及世界许多发达国家人口进入老龄社会, 衰老成为对社会和发展有着重大影响的学科。衰老和健康老年也成为当前的热门话题和研究领域。本课程讲授衰老发生的基本原理和当前的主要理论, 着眼于介绍与人类生活和健康密切相关的衰老知识, 揭示衰老与社会普遍关注的癌症, 神经退行性疾病以及心血管疾病等诸多衰老相关疾病发生的科学关系, 介绍当前衰老科学的重大进展及其对当前人类社会及未来的深远影响, 阐述当前潜在的抗衰老途径方法和现实意义, 以及抗衰老面临的机遇和挑战。

英文简介 (Course Description) :

With the population of our country and many developed countries entering the aging society, aging has become a subject that has a significant impact on society and development. Aging and healthy aging have become hot topics and research fields. This course introduces the basic principles and current main theories of aging, focuses on the introduction of aging knowledge closely related to human life and health, reveals the scientific relationship between aging and many aging related diseases, such as cancer, neurodegenerative diseases and cardiovascular diseases, which are generally concerned by the society, and introduces the major progress of current aging science and its depth to the current human society and the future Far influence, expound the current potential anti-aging methods and practical significance, as well as the opportunities and challenges of anti-aging.

-End-

课程号 (Course Number) : 01133036
课程名称 (Course Title) : 生命的逻辑/The logic of life
开课院系 (School/Department) : 生命科学学院/College of Life Sciences
学分 (Credits) : 2
授课教师 (Faculty) : 白书农 教授 Professor

先修课程 (Prerequisites) : 无

中文简介:

2021修改版:

《生命的逻辑》课程从2016年试开至今, 已经开讲5年了。在2018年发布过一版课程介绍。该版

介绍概括了2016、2017两年期间的课程内容，也介绍了选课同学的反馈。在之后三年，尤其是新冠疫情造成的影响，授课教师对“生命的逻辑”有了更深多的思考。加上2020年新冠疫情所致的居家工作，让授课教师有机会把之前几年授课内容整理成文。这些思考和写作，都使得本课程的内容和授课方式需要做出一些调整。另外，在过去5年授课过程中，注意到大部分同学很难有阅读课程推荐的参考书和文献的时间，好在从2019年至今，授课教师有幸获得一些演讲和专栏写作的机会，对本课程的内容做过一些概述。可以为有意向选修本课程的同学了解课程内容提供一些参考。

另外，本课程有一个特别的要求，即在开课第一天提交一份课前论文《我理解的生命》。概述一下自己目前理解的生命。篇幅在2页A4纸。请选课的同学做好准备。

2018版：

都说要珍惜生命。可是生命是什么？很多学者都认为他们在解读生命甚至“规定”生命。可是如果我们了解生命是在 10^9 （10亿）年的时间尺度中出现的自然现象，而人类有记录的历史不过是 10^3 （千）年的时间尺度上才发生的故事，会不会觉得号称自己或者自己研究的学科在“规定”生命的人在什么地方有点儿不对劲儿？

现在社会上，起码在我们的校园中，否认我们人类是生命体的人恐怕不多了。可是谁能说清楚“生命”究竟是什么？人们以为或者期待生物学家会给出标准答案，可是生物学家口中陌生而拗口的术语，他们演讲的幻灯片中令人眼花缭乱的符号，常常让绝大多数不以生物研究为业的人敬而远之。可是，树欲静而风不止。伴随对生命科学敬而远之的，却往往是对日新月异而且难以理解的新发现所带来的各种传言的困惑和面对变幻莫测生存环境的焦虑。生命科学发展得越迅猛，似乎离大众的距离也越远。研究者和大众之间在生命认知上越来越大的鸿沟该由谁来填补呢？

面对超越“摩尔定律”速率增加的生命科学研究领域的庞大信息，指望让大众按照专业生物教育的模式来了解生命显然是不现实的。可是，无论从社会还是从生命科学自身可持续健康发展的角度，又都不得不设法让更多的社会成员了解生命的本质和基本规律，从而在生活中遵循生命的规律而构建和谐的生活。毕加索当年受远古洞穴岩画启发而把毛发必现的写实的牛画成线条勾勒的抽象的牛，似乎为解决上述困境提供了一个值得尝试的途径：以抽象的方式，从海量信息中抽象出核心要素。看他寥寥几笔，大概没有几个成年人不会马上分辨出大师画的是“牛”而不是别的什么动物。以帮助受众思考生命本质、理解生命规律为目的，生命科学学院白书农教授根据其多年研究工作中形成的对生命的理解和感悟，设计了《生命的逻辑》课程，作为供全校同学（不分专业、不分年级）选修的通选课，和大家一起探讨我们每个人都无法回避的“生命”的本质及其规律问题。

本课程设计为暑假小学期小班课（限25人）。32个学时，2个学分。授课、讲座、结合讨论。主要围绕与大家日常生活密切相关的问题介绍与生命有关的基本知识及其内在联系。根据出席与讨论参与程度（10%）和两篇论文（每篇2000字左右的）以及两次讲座的心得（论文与心得共占90%）三方面来计成绩。两篇论文都是以“你理解的生命”主题，总结自己对“生命”的理解。在课程的开始和结束时各提交一篇。论文目的在于帮助选课者了解自己随课程进程对“生命”现象理解的变化。论文将根据论点是否明确、论证是否有依据（是否有参考文献以及对参考文献引用的规范性）及论证的合理性等三方面予以评分。

特别值得介绍的是，本课程的讲座部分，将由两位美国著名大学的教授承担。一位是美国芝加哥大学的演化生物学教授龙漫远。他是国际上新基因起源研究的开创者和引领者。他将为本课程讲授生物演化的基本原理。另一位是位于美国西雅图的华盛顿大学的应用数学教授钱紘。他以数学的家学积淀，遍历天体物理、生物化学、蛋白质结构计算，最后的应用数学领域，用数学的方法，描述纷繁复杂的生命过程，从中发掘出简明美妙的基本规律。他将为本课程讲授能否以及如何用定量科学的逻辑来解释生命系统的内在规律。

英文简介 (Course Description) :

My independent scientific career started from an attempt to decipher genetic program of organ formation, using stamen as an experimental system. This effort led to a scenario that a stamen is a node of three cycles: cell cycle, sexual reproduction cycle and life cycle, functioning as a turning point linking multicellular structures and unicellular sexual reproduction cycle.

The rationale of choosing decipher genetic program of organ formation as a research interest could be traced back to my postdoc era in UC Berkeley with Renee Sung. Through a project characterizing an Arabidopsis mutant “embryonic flower” in Renee’s lab, I firstly faced a challenge on which the “vegetative” or “reproductive” phase is “default”, whether a plant has a developmental program, in comparison with animal individual, and if a plant has, when is its starting and ending point. To answer these questions, I proposed a new concept called “plant developmental unit (PDU)” in 1993 (Bai 1999; Bai and Xu 2013). This concept contains three aspects: 1) a plant should have a determined genetic program otherwise no “generation” could be identified. Such a determined genetic program starts from a zygote and ends at two different types of gametes; 2) while unlimited number of organs can be generated by a shoot tip (e.g. the shoot apical meristem in angiosperms), the organ types are limited. Therefore, all organ types, if we ignore the number and imagine one pair of organs each type, generated from one shoot tip (using Arabidopsis as an example, including cotyledon, rosette leaf, cauline leaf, sepal, petal, stamen and carpel) consists a PDU ; 3) a plant that people usually considered as an individual is essentially not an individual comparable to an animal, such as a worm, a fly and a human, which carries out the genetic program, but a colony comparable to coral, consisting of unlimited number of partial PDU. This concept is essentially the elaboration of ideas proposed by the founder fathers of modern botany, i.e. Grew and Malpigi back to 17th century, carried out by Waddington in 1960s’ and should be revived in the future.

Based on the conceptual framework of PDU, I used to divide plant developmental program as three subprograms: vertical, controlling sequential emergence of organ types; horizontal, controlling organ formation of each type from a group of undifferentiated cells to an organ with particular shape, structure and function; and environmental response. The first is too difficult to experimentally pursue and the third one is developed so well and I have no idea to make the progress any better. So I chose the second. I chose stamen as my experimental system not only because of its conservation

in shape and function, but because of its application potential in artificial male sterility used for heterosis in crop improvement.

Taken together, a set of principles emerged that governs plant morphogenesis or development although numerous variations can be added in for each species. These principles could be summarized as “plant morphogenesis 123”. ONE means one start point, i.e. SRC. TWO means two themes, i.e. structure building (through “neo-modularization”) and environment responding (through two driving forces, i.e. photoautotroph and stresses responses). THREE means three sequential steps to complete a single “ring” :

1. photoautotrophism driving an increase in surface area for photosynthesis and away from the unicellularity of the SRC;
2. the increased external and internal stress that accompanies the increase in the surface area available for photosynthesis;
3. this increase in stress driving a reduction in the surface area available for photosynthesis and compelling the morphogenesis back toward the unicellularity of the SRC.

-End-

课程号 (Course Number) : 01134110

课程名称 (Course Title) : 生态学野外实践/Field Practice of Forest and Wildlife Ecology

开课院系 (School/Department) : 生命科学学院/College of Life Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 王戎疆 副教授 Associate Professor, 贺新强 教授 Professor

先修课程 (Prerequisites) : 普通生态学, 生物学野外实习

中文简介:

生态学是研究生物与生物之间以及生物与环境之间关系的学科。生态学研究多在野外环境中开展, 有其特殊的研究方法和实施过程, 而这是无法通过一般课堂教学所能学习和体会的。本课程将把有一定生物学基础知识的本科生带到自然保护区等野外环境, 主要在四川省岷山北部, 以平武县王朗国家级自然保护区为核心基地, 并涵盖周边位于唐家河国家级自然保护区、九寨沟国家级自然保护区、老河沟自然保护区内的若干野外站点。通过让学生参与野外生态学研究项目, 学习野外生态学研究的基本过程和研究方法。通过本课程的学习, 学生将加深对生态学基本概念的理解, 了解生态学野外研究的基本过程和操作方法, 从而掌握实验设计、数据获取以及数据分析等基本方法, 培养学生基本的野外调查与科研能力, 为将来从事动物学、植物学、保护生物学和生态学野外研究奠定基础。

英文简介 (Course Description) :

Ecology is focused on the relationship between organism and environment and between

organisms. Being conducted in wild environment, ecological researches possess specific methods and protocols, which could not be learned in common courses. In this course, the students with general knowledge of ecology will be brought into the wild environment such as nature reserves. They will take part in the ongoing projects of forest and wildlife ecological researches, from which they will learn the conventional and advanced methods in ecological researches. Through studying the course, the students will improve the understanding of general ecological concepts, and learn the methods of designing experiments, inquiring data, and analyzing data, which will confer the basis for ecological field research in future.

-End-

课程号 (Course Number) : 01134140

课程名称 (Course Title) : 生物学综合野外实习/Field Practice of Biology

开课院系 (School/Department) : 生命科学学院/College of Life Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 饶广远 教授 Professor, 李大建 实验师 Lab Master

先修课程 (Prerequisites) : 植物生物学, 动物生物学

中文简介:

生物学野外实习是生物类本科生重要的学习内容和基本的教学训练,是同学们了解生物多样性及其与环境相互关系的重要环节,它不仅是对动物生物学、植物生物学和其它生物学课程课堂知识和室内实验内容的必要补充,而且具有独特的形式、内容和效果。内容包括不同生境下植物的主要类群的识别,陆生植物和海洋潮间带藻类识别、标本的采集和保存方法,陆生动物(主要是昆虫)和海洋潮间带动物主要类群的识别,啮齿类动物种群调查、鸟类环志和动物行为观察和动物标本的采集和制作方法。通过野外实习培养学生自主发现问题、解决问题的能力,激发同学们探索自然奥秘的愿望,进而从内心热爱自然,热爱生命科学。此外,野外实习还是培养同学之间互助、团结和合作精神的课堂。

英文简介 (Course Description) :

Field Practice of Biology is focused on plants, animals, their relationships and relationships between environment and organisms. In this course, the students will learn the basic identification of plants and animals, ecological methods to study the plant and animal life in the wild environment such as natural reserves. Through studying the course, the students will improve the understanding of general biological concepts, and learn the methods of designing experiments, inquiring data, and analyzing data, which will confer the basis for biological study in future.

-End-

课程号 (Course Number) : 01134140

课程名称 (Course Title) : 生物学综合野外实习/Field Practice of Biology

开课院系 (School/Department) : 生命科学学院/College of Life Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 顾红雅 教授 Professor, 龙玉 讲师 Lecturer

先修课程 (Prerequisites) : 植物生物学, 动物生物学

中文简介:

生物学野外实习是生物类本科生重要的学习内容和基本的教学训练, 是同学们了解生物多样性及其与环境相互关系的重要环节, 它不仅是对动物生物学、植物生物学和其它生物学课程课堂知识和室内实验内容的必要补充, 而且具有独特的形式、内容和效果。内容包括不同生境下植物的主要类群的识别, 陆生植物和海洋潮间带藻类识别、标本的采集和保存方法, 陆生动物(主要是昆虫)和海洋潮间带动物主要类群的识别, 啮齿类动物种群调查、鸟类环志和动物行为观察和动物标本的采集和制作方法。通过野外实习培养学生自主发现问题、解决问题的能力, 激发同学们探索自然奥秘的愿望, 进而从内心热爱自然, 热爱生命科学。此外, 野外实习还是培养同学之间互助、团结和合作精神的课堂。

英文简介 (Course Description) :

Field Practice of Biology is focused on plants, animals, their relationships and relationships between environment and organisms. In this course, the students will learn the basic identification of plants and animals, ecological methods to study the plant and animal life in the wild environment such as natural reserves. Through studying the course, the students will improve the understanding of general biological concepts, and learn the methods of designing experiments, inquiring data, and analyzing data, which will confer the basis for biological study in future.

-End-

课程号 (Course Number) : 01134140

课程名称 (Course Title) : 生物学综合野外实习/Field Practice of Biology

开课院系 (School/Department) : 生命科学学院/College of Life Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 孟世勇 工程师 Engineer, 李晟 助理教授

先修课程 (Prerequisites) : 植物生物学, 动物生物学

中文简介:

生物学野外实习是生物类本科生重要的学习内容和基本的教学训练, 是同学们了解生物多样性及其与环境相互关系的重要环节, 它不仅是对动物生物学、植物生物学和其它生物学课程课堂知识和室内实验内容的必要补充, 而且具有独特的形式、内容和效果。内容包括不同生境下植物的主要类群的识别, 陆生植物和海洋潮间带藻类识别、标本的采集和保存方法, 陆生动物(主

要是昆虫)和海洋潮间带动物主要类群的识别,啮齿类动物种群调查、鸟类环志和动物行为观察和动物标本的采集和制作方法。通过野外实习培养学生自主发现问题、解决问题的能力,激发同学们探索自然奥秘的愿望,进而从内心热爱自然,热爱生命科学。此外,野外实习还是培养同学之间互助、团结和合作精神的课堂。

英文简介 (Course Description) :

Field Practice of Biology is focused on plants, animals, their relationships and relationships between environment and organisms. In this course, the students will learn the basic identification of plants and animals, ecological methods to study the plant and animal life in the wild environment such as natural reserves. Through studying the course, the students will improve the understanding of general biological concepts, and learn the methods of designing experiments, inquiring data, and analyzing data, which will confer the basis for biological study in future.

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课程号 (Course Number) : 01134140

课程名称 (Course Title) : 生物学综合野外实习/Field Practice of Biology

开课院系 (School/Department) : 生命科学学院/College of Life Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 饶广远 教授 Professor, 李大建 实验师 Lab Master, 顾红雅 教授 Professor, 王戎疆 副教授 Associate Professor

先修课程 (Prerequisites) : 植物生物学, 动物生物学

中文简介:

生物学野外实习是生物类本科生重要的学习内容和基本的教学训练,是同学们了解生物多样性及其与环境相互关系的重要环节,它不仅是对动物生物学、植物生物学和其它生物学课程课堂知识和室内实验内容的必要补充,而且具有独特的形式、内容和效果。内容包括不同生境下植物的主要类群的识别,陆生植物和海洋潮间带藻类识别、标本的采集和保存方法,陆生动物(主要是昆虫)和海洋潮间带动物主要类群的识别,啮齿类动物种群调查、鸟类环志和动物行为观察和动物标本的采集和制作方法。通过野外实习培养学生自主发现问题、解决问题的能力,激发同学们探索自然奥秘的愿望,进而从内心热爱自然,热爱生命科学。此外,野外实习还是培养同学之间互助、团结和合作精神的课堂。

英文简介 (Course Description) :

Field Practice of Biology is focused on plants, animals, their relationships and relationships between environment and organisms. In this course, the students will learn the basic identification of plants and animals, ecological methods to study the plant and animal life in the wild environment such as natural reserves. Through studying the course, the students will improve the understanding of general biological concepts, and learn the methods of designing experiments, inquiring data, and analyzing data,

which will confer the basis for biological study in future.

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课程号 (Course Number) : 01134140

课程名称 (Course Title) : 生物学综合野外实习/Field Practice of Biology

开课院系 (School/Department) : 生命科学学院/College of Life Sciences

学分 (Credits) : 2

授课教师 (Faculty): 贺新强 教授 Professor, 龙玉 讲师 Lecturer, 孟世勇 工程师 Engineer, 李晟 助理教授

先修课程 (Prerequisites) : 植物生物学, 动物生物学

中文简介:

生物学野外实习是生物类本科生重要的学习内容和基本的教学训练, 是同学们了解生物多样性及其与环境相互关系的重要环节, 它不仅是对动物生物学、植物生物学和其它生物学课程课堂知识和室内实验内容的必要补充, 而且具有独特的形式、内容和效果。内容包括不同生境下植物的主要类群的识别, 陆生植物和海洋潮间带藻类识别、标本的采集和保存方法, 陆生动物 (主要是昆虫) 和海洋潮间带动物主要类群的识别, 啮齿类动物种群调查、鸟类环志和动物行为观察和动物标本的采集和制作方法。通过野外实习培养学生自主发现问题、解决问题的能力, 激发同学们探索自然奥秘的愿望, 进而从内心热爱自然, 热爱生命科学。此外, 野外实习还是培养同学之间互助、团结和合作精神的课堂。

英文简介 (Course Description) :

Field Practice of Biology is focused on plants, animals, their relationships and relationships between environment and organisms. In this course, the students will learn the basic identification of plants and animals, ecological methods to study the plant and animal life in the wild environment such as natural reserves. Through studying the course, the students will improve the understanding of general biological concepts, and learn the methods of designing experiments, inquiring data, and analyzing data, which will confer the basis for biological study in future.

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课程号 (Course Number) : 01230470

课程名称 (Course Title) : 北斗系统与时空智能/BDS-based Spatiotemporal Intelligence

开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 陈秀万 教授 Professor

先修课程 (Prerequisites) : 不需要先修课程。

中文简介：

北斗系统是中国自主卫星导航系统（与美国GPS、俄罗斯GOLASS和欧洲GALILEO并称世界四大全球导航卫星系统），北斗三号基本系统已于2018年底建成并正式开始提供全球服务。时空智能和视觉智能、声音智能一样，属于人工智能的一部分。精准时空服务——动态厘米级静态毫米级的高精度定位服务和纳秒级授时服务，已经成为人工智能感知外在所需的基础信息之一。“北斗系统与时空智能”属于二十世纪七十年代以来被称为世界三大尖端技术（空间技术、能源技术、人工智能）之“空间技术”与“人工智能”的交叉领域。

本课程结合北斗时空智能应用创新和全国大学生创新创业实践相关项目的实施，以及北京大学“导航与位置服务”学科（全国首个卫星导航应用二级学科博士学位授权点）建设，基于“北斗杯”全国青少年科技创新大赛（教育部科技司、共青团中央学校部、中国科协青少年科技中心和中国卫星导航系统管理办公室于2010年联合发起）项目十余年来累积的大中学生科技创新成果及孵化经验，面向大学生和社会公众，介绍北斗卫星导航与时空智能的基本概念、发展历史、关键技术、典型应用和对创新型国家建设的深远影响，展示北斗系统的应用发展前景，为大学生和社会公众提供一个全面了解北斗系统与时空智能的平台。

本课程依托北京大学全球大学生创新创业中心、地球观测与导航教育部工程研究中心、中欧卫星导航技术培训合作中心等平台，突出跨学科综合优势，加强与教育部卫星导航联合研究中心（应用技术研究分中心）21所成员高校和“北斗翱翔”青少年科技创新教育计划的专家团队、科技教师、企业高管、行业主管人员等的合作，探索将北斗时空智能技术的原理、应用和前景融入基础自然科学和社会人文科学中，培养、激发青少年开展北斗时空智能创新创业的兴趣、热情。

本课程将邀请政、产、学、研、用、资领域专家担任课程讲师和创业导师，通过讲座、考察、观摩、实训、挑战赛等形式，展现科学、技术、工程和商业等各个领域的专家对北斗时空智能技术的理解和创新创业体会。课程注重创新创业实践，以创新创业项目组为培养单元，选择若干个独具创意和产业化前景的时空智能应用领域（如智能交通、生命救援、移动资产智能监管、智慧旅游、智慧应急、智慧城管、智慧健康、智能农机、智能终端、野生动物监护等）。优先支持“北斗杯”大赛获奖项目和双创孵化机构有资助意愿的项目，由双创“三师”（科技教师、科学大师、创业导师）对各项目团队进行针对性指导、训练，并通过挑战赛、项目路演等形式，推动双创团队和创投机构的成果孵化转化合作。

英文简介（Course Description）：

BeiDou Navigation Satellite System (BDS) is one of the four space-based global navigation satellite systems, along with US's GPS, Russia's GLONASS, and the Europe Union's Galileo. The China homegrown BDS system started to provide global service at the end of 2018, as the construction of the BDS-3 primary system had been completed by then. Spatiotemporal intelligence, like visual intelligence and acoustic intelligence, belongs to part of artificial intelligence (AI). Precision space-time service has become one of the basic sensed information needed by AI. BDS-based Spatiotemporal Intelligence (BDSI) belongs to the intersection field of space technology and artificial intelligence which, along with energy technology, have been called the world's three most advanced technologies since 1970s.

This course is aimed to integrate the incubation experience for and innovation achievements from participants of the BeiDou Cup China Adolescents Science & Technology Innovation Contest (BD-CASTIC) initiated by Science and Technology Department of the

Ministry of Education with related organizations in 2010, and the navigation and location-based service (NLS) discipline initiated by Peking University, so as to provide innovation and entrepreneurship training for college students and other youngsters. The contents of the course include the introductions of basic concepts, development history, key technologies and typical applications of BDSI, and its far-reaching impact on the innovative country construction, and provide a platform for pioneers to fully understand BDS system and spatiotemporal intelligence.

Relying on Peking University Center for Innovation and Entrepreneurship of Global College Students, Engineering Research Center of Earth Observation and Navigation of the Ministry of Education, China-Europe Satellite Navigation Technology Training and Cooperation Center etc., this course strengthens the interdisciplinary advantages and cooperation among the 21 member universities of Joint Center of GNSS of the Ministry of Education, and the organizers and experts of BDSHare Youth Science and Technology Innovation Education Program. Through the co-innovation among team experts, science and technology teachers, and enterprise executives, we wish to explore the principles, applications and prospects of BDSI technology into various natural sciences and social sciences, and cultivate and stimulate the interest and enthusiasm of young people in BDSI innovation and entrepreneurship.

Experts from governmental sectors, universities, institutions, application and investment organizations will be invited to serve as lecturers and entrepreneurship mentors. Through lectures, field surveys, project roadshow, training and challenge competitions, participants will share understanding of BDSI and their innovative and entrepreneurial experience with experts in various fields. The course focuses on the practice of innovation and entrepreneurship, with project team as the training unit. Each team chooses one of the BDSI application fields with unique creativity and industrialization prospects, such as intelligent transportation, life rescue, intelligent mobile assets supervision, smart tourism, smart emergency, smart city management, smart health, intelligent agricultural machinery, intelligent terminals, wildlife monitoring, etc., with incubating support prior to the BD-CASTIC award winning projects and those with funding intention from innovation and entrepreneurship incubators. Outstanding science and technology teachers, scientific experts and venture mentors will jointly provide targeted guidance and training to the project teams, so as to strongly promote the cooperation between the team and venture capitalists in achievements incubating and technology transfer.

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课程号 (Course Number) : 01231640

课程名称 (Course Title) : 普通地质实习A/Introduction to Field Geology

开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 张志诚 教授 Professor

先修课程 (Prerequisites) : 《地球科学概论 (二) 》

中文简介:

本次野外教学实习对地球与空间科学学院地质和地球化学专业一年级学生来说是一次地质启蒙教育, 是一次重要的认识实习, 重点强调地质基本概念、基本知识和基本技能训练。通过短期的野外实践使同学们对地质学研究的主要内容和特点有一个比较全面的、概括的了解; 通过野外实习来巩固《地球科学概论》地质学部分的课堂教学内容, 来加深对课程有关内容的理解; 在实习中学习象地质点定点和描述, 罗盘和地形图的使用等地质工作最基本的野外工作方法; 认识基本的地质体和地质现象、学会描述这些地质体和地质现象、分析它们形成的地质作用过程、综合分析北京地区的地质作用过程、了解北京地区地质演化历史、编制简单的实习报告。通过实习培养同学们对大自然的热爱, 陶冶情操, 提高对地质科学研究的兴趣; 同时使同学们充分认识到地质实践对于地质科学的重要性。

英文简介 (Course Description) :

Introduction to Field Geology is the basic experience in many undergraduate geology programs, and is recommended for freshmen of the School of Earth and Space Sciences, Peking University. It is usually taken in the summer following the freshmen year, after completion of An Outline of Earth Sciences. In this course, you will have the opportunity make an all-important transition from classroom theory to real-world understanding. You will begin to be able to acquire an understanding of the fundamentals of the science of geology by learning it and doing it, to evaluate how field data are used to construct the knowledge we have about the Earth and its long geologic history. This course is designed to acquaint you with generic field skills used in geology and related fields and apply these fundamental principles, which can be used in a wide variety of applications. You will learn how to develop skills in surveying and measurement, use outcrop observations and measurements to deduce regional interpretations, produce professional-quality geological stratigraphic sections, interpret geologic history from rock descriptions, geologic relationships, and measured sections, identify common rocks and minerals, read maps, recognize identify landforms, and geological processes and structures. Now that you can combine all of your knowledge and skills to investigate and interpret the geology of the West Hill of Beijing based on your own observations, and write a summary report interpreting the geologic history and significance of the area. You can gain additional life skills, including critical-thinking, problem-solving, team-work, scientific writing, and professionalism. You may be get an appreciation for the complexity and beauty of the Earth as well as the human impact on her processes during the field practice. You will find your study of the science of geology to be stimulating and rewarding, fully understand the importance of geological field trips of Earth Sciences.

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课程号 (Course Number) : 01231800

课程名称 (Course Title) : 区域地质实习/Geological Investigation & Mapping

开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences

学分 (Credits) : 4

授课教师 (Faculty) : 何涛 副教授 Associate Professor

先修课程 (Prerequisites) : 具备矿物学、岩石学、构造地质学、古生物学、地史学、地貌与第四纪地质学等基础课程知识；先修普通地质实习。

中文简介:

地质学不仅是一门自成系统的理论学科，而且是实践极强的学科。区域地质调查实习是本科教学中的核心环节。通过理论与实践相结合的教学活动，使学生初步掌握系统的、从事野外地质调查所必须具备的基本知识、基本方法和基本技能的同时，也能在一定程度上对现代地球科学技术发展的新思想、新理论、新方法、新技术有所了解和训练。主要包括：（1）专业技能：野外实践教学的重点是培养学生观察识读能力、动手能力、理论联系实际能力、地质思维能力、地质调查设备的运用能力以及强化训练其语言—文字—图形表达能力；（2）专业思维：培养学生开拓创新和科学研究意识，加深对已学基础地质理论的理解，为后续课程的教学及高年级专业实习和毕业论文实习打下坚实基础；（3）专业素质：野外教学实习应体现学校的传统与特色，培养学生勤奋严谨、求实创新、团结协作精神，提高学生综合素质。

英文简介 (Course Description) :

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课程号 (Course Number) : 01231911

课程名称 (Course Title) : 三峡地区综合地质实习/Geology Excursions in the Three Gorges Region

开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 关平 教授 Professor, 孙元林 教授 Professor, 刘建波 教授 Professor, 薛进庄 副教授 Associate Professor, 沈冰 长聘副教授

先修课程 (Prerequisites) : 普通地质学、结晶矿物学、岩石学、古生物学、地史学等

中文简介:

本课程是在以前的综合地质实习（三峡实习）基础上建立的、为地质学专业学生学习沉积学、地层学和古生物学的野外实践性课程。开设此课程的目的包括：1) 通过实地地质剖面的观察，使学生能更好地通过理论联系实际的方式掌握所学的地质学基础知识；2) 通过对若干条剖面的实地考察，让学生认识主要沉积岩石类型、沉积结构和构造，以及主要的生物化石类型，分析和判定沉积相的类型和地层剖面所展示的地层发育序列和变化，了解和认识华南扬子地块的地质发展演化历史；3) 通过本课程的实践，让学生学习和了解沉积学、地层学和古生物学研究的

野外基本工作方法，并锻炼和培养学生进行野外地质工作技能。

英文简介 (Course Description) :

This course is a field practice course based on the previous comprehensive geological practice (Three Gorges Practice). It would be helpful for students majoring in geology to study sedimentology, stratigraphy and paleontology.

-End-

课程号 (Course Number) : 01231912

课程名称 (Course Title) : 五台山地区综合地质实习/Geology Excursions in the Wutai Region

开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 魏春景 教授 Professor, 张进江 教授 Professor, 张波 副教授 Associate Professor, 张贵宾 副教授 Associate Professor

先修课程 (Prerequisites) : 地球科学概论, 普通岩石学, 地球化学, 构造地质学

中文简介:

五台山综合野外地质实习是在野外地质认知实习及相关专业课室内学习基础上, 为训练学生野外地质考察的综合能力及在变质岩区进行岩石和构造研究能力而设置的。每年6月底到7月初在五台山—恒山地区工作1.5周。实习考察8条路线30个观测点。

英文简介 (Course Description) :

The geology excursions in Wutai region is for the undergraduate students, who finished the field training after the "general geology" course. This course will focus on the basic training of geologic investigation, including various types of rocks and structure geology reconstruction, especially in the high grade metamorphic area. All students will stay at Wutai-Hengshan area for ten days, and go across 5 long cross-sections and examine about 30 stops.

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课程号 (Course Number) : 01233170

课程名称 (Course Title) : 地震概论/Introduction to Seismology

开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 赵克常 教学副教授

先修课程 (Prerequisites) : 无

中文简介：

本课程是为全校学生开设的素质教育通识课程，具有典型的自然科学课程的特征。它简明扼要地介绍了地震学的基本概念以及研究的方法，内容包括地震学史、地震仪原理与地震图、地震波的传播理论、地球内部结构、勘探地震学、地震预报、临震措施和地震学最新进展。通过本课程的学习，提升学生的自然科学的素质，增强学生的抗震减灾意识以及提升学生的临震逃生能力。

英文简介 (Course Description) :

As a general education course aimed at all the students at the campus for promoting quality-oriented education, Introduction to Seismology is characterized by its typical natural science features. The course provides a brief introduction to basic concepts and research methods of seismology, which covers Seismology history, seismograph principles and seismogram, seismic waves propagation theories, interior Earth structure, exploration seismology, earthquake prediction, imminent earthquake measures and recent advances in seismology. This course enables the students to promote their quality of natural science, enhance their awareness of earthquake resistance and disaster mitigation and improve their skills for imminent earthquake escape.

-End-

课程号 (Course Number) : 01233660

课程名称 (Course Title) : 地球物理野外实习/Geophysical Field Practice

开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 宁杰远 教授 Professor

先修课程 (Prerequisites) : 高等数学、普通物理、数学物理方程、地球介质力学、地震学、普通地质学

中文简介：

地球物理学是一门强烈依赖于观测资料的学科，通过对大量观测资料的分析，发现新现象、产生新理论，从而不断发展。本课程的目的是：学生通过野外观测与资料处理的实际操作，加深对理论知识的理解，初步掌握获取资料、处理资料，解释资料的能力，培养发现问题、解决问题的能力，为进一步在地球物理学及相关领域开展科研工作奠定基础。主要内容包括：地表地质现象的考察；地球物理前沿处理技术学习；地震观测台阵的设计及地震观测；地震观测资料处理和解释。

英文简介 (Course Description) :

Geophysics strongly depends on observation data. Based on analysis of the observation

data, finding new phenomena, producing new theories, then achieving continuous development.

The purpose of this course is that by field observation and data processing students deepen

their understanding of theoretical knowledge, primarily grasp the ability of data acquiring,

processing and explanation, strengthen their capability of finding and solving questions, which

are all needed for their future work. Main contents include geology survey, advanced technology

study, seismic array design, and seismic data processing and explanation.

-End-

课程号 (Course Number) : 01235260

课程名称 (Course Title) : 3S野外综合实习/Practice on RS, GIS and GPS

开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences

学分 (Credits) : 1

授课教师 (Faculty) : 田原 副教授 Associate Professor

先修课程 (Prerequisites) : 《地理信息系统概论》；《遥感概论》；《地球科学导论》

中文简介:

通过在典型区域的野外综合实习，使学生了解3S综合实践应用的基本方法，培养学生的实际动手能力，帮助其深入理解和掌握所学的理论知识：

走出校门，置身于大自然之中，实地验证课堂上所学的地图学、自然地理基础知识和3S基本理论的过程。

将遥感、地理信息系统和全球定位系统所学的各种方法和理论应用于实际工作中，加深对基本理论知识的理解。

掌握自然地理野外调查的基本技能，培养和锻炼学生的动手和独立工作能力。

掌握综合利用遥感、地理信息系统和全球定位系统进行区域野外调查和专题遥感解译工作的基本方法和技术。

英文简介 (Course Description) :

This mandatory class provides an integral field practice on GIS, RS, and GPS. The main contents of this class are data acquisition, route planning, field exploration, RS image interpretation, GPS navigation, and land survey. The students are required to comprehensively apply what they have learnt in GIS, RS, and GPS classes in practice to fulfill all the tasks, which will improve their understandings and application abilities of the basic knowledge.

-End-

课程号 (Course Number) : 01533300

课程名称 (Course Title) : 城乡地域空间认知实习/Regional Science: Practice of Theories and Models

开课院系 (School/Department) : 城市与环境学院/College of Urban and Environmental Sciences

学分 (Credits) : 1

授课教师 (Faculty) : 阴劼 讲师 Lecturer

先修课程 (Prerequisites) : 无

中文简介:

城乡地域空间认知实习是五年制城市规划专业本科教学的必要环节, 是专业评估考察的内容。本实习选取京津冀都市圈作为基地。在启动阶段, 以天津市区及滨海新区、北京市、唐山市为主要基地开始系统性的实习教学。在条件成熟时, 逐步扩展至石家庄、承德、张家口等城市, 形成以京津唐为核心的京津冀都市圈实习基地。

(1) 以京津冀都市圈为教学实习基地, 能够充分体现“坚持以地理学为基础的、理工结合的规划教学科研体系”的城市规划专业办学特色, 发挥我系在中国城市化、区域研究与规划、创新空间与创新群体、经济地理等城市规划领域的长项研究, 通过连续的教学实习, 可以达到教学相长的效果。

(2) 京津冀环渤海城市群是中国目前已形成三大城市群之一, 天津滨海新区作为全国综合配套改革试验区, 起着探索新的区域发展模式、为全国发展改革提供经验和示范的作用。以此区域作为实习基地, 有利于学生了解我国城市化进程中的最前沿问题。

(3) 京津冀都市圈内的城市, 在性质、规模、产业、历史、文化等方面各有特点, 利于根据教学任务的调整组织实习路线。

(4) 京津冀都市圈以北京为中心, 远近适宜, 交通发达, 利于实习的开展。

近年来, 我院的城市与区域规划系及城市与经济地理学系等承担了天津大港城市总体规划、土地利用总体规划等工作, 也承担了京津冀都市圈其它城市的多项规划研究项目(如: 北京市土地利用总体规划、河北迁安城乡一体化规划等)。同时, 北京大学与天津签署了积极参与服务天津滨海新区建设的备忘录, 为滨海新区的开发开放和可持续发展提供科技和智力支撑, 使京津冀都市圈作为我院的实习基地有着良好的基础与前景。

我系已经与天津市规划局、天津经济技术开发区(泰达)就共建教学实习基地达成合作意向。

英文简介 (Course Description) :

N/A

-End-

课程号 (Course Number) : 01536840

课程名称 (Course Title) : 环境科学野外综合实习/Field Practice of Environmental Sciences

开课院系 (School/Department) : 城市与环境学院/College of Urban and Environmental

Sciences

学分 (Credits) : 1

授课教师 (Faculty) : 李喜青 长聘副教授

先修课程 (Prerequisites) : 普通化学

中文简介:

该项暑期课程突出将课堂基础教学、模拟效果演示与野外现场实践、动手操作活动相结合。选课学生在各相关专业教师具体指导下,在前期课堂理论、原理学习与基础操作技能培训的基础上,课程后期在代表性的野外现场亲身参与综合实习活动,具体包括:大气、水体、土壤、沉积物和生物等多介质环境样品的采集(包括器具、装备的准备和使用;目标区域选择、样点布设和定位)、各类样品前处理(分离、提取、净化、浓缩等)和检测工作,最终完成翔实、科学的实习报告。本课程与环境监测与实验、水环境化学、土壤环境化学、环境毒理学、环境风险评价等相关课程相互衔接和补充,通过多介质环境的综合性实验设计,培养学生针对环境科学问题进行综合分析、研究的思路和方法,理解和掌握探讨环境污染来源与产生、迁移/转化等归趋行为、及其生态毒理学效应的定性与定量研究的技术和手段,以及实验分析数据的获取、处理方法,加深对环境科学的认识,提高学生综合分析问题和解决问题的能力。

英文简介 (Course Description) :

The course is highlighted by combination of class teaching and simulation show with field practice and operation. The students, under the instruction by the specific tutors and on the basis of previous study and training on theories, principles and manipulative skills in class, will participate in various sampling and pretreatment activities in the field. The practices include collection of atmospheric, water, soil and biotic samples (involving preparation and use of different devices and appliances, selection of target area, assignment and localization of sampling sites), pretreatment of different samples (such as separation, extraction, purification, concentration and so on) and preliminary measurements, and then finish the final summary reports. The course is connected and supplied with other courses, for example, environmental monitor and experiment, aquatic environmental chemistry, soil environmental chemistry, ecotoxicology and risk assessment. By multidiscipline experiment design in multimedia environments, the students will receive the training for comprehensively analyzing and studying the environmental problems by different ways and routes, and understand and handle the qualitative and quantitative technologies for the fate (e.g., source, formation, transport and transform) of various pollutants and their ecotoxicological effects, as well as the acquirement and compile means for data. Accordingly, course studying will deepen the knowledge of environmental sciences, and enhance the whole ability for analyzing and resolving the real problems.

-End-

课程号 (Course Number) : 01537530

课程名称 (Course Title) : 普通地质实习/Field Practice of Physical Geology
开课院系 (School/Department) : 城市与环境学院/College of Urban and Environmental Sciences
学分 (Credits) : 1
授课教师 (Faculty) : 张家富 教授 Professor

先修课程 (Prerequisites) : 普通地质学

中文简介:

地球概论野外实习课是为环境学院本科生和研究生开设的野外实习课。要求选修本课程的学生上个学年(近期)选修过“地球概论”或“普通地质学”。“地球概论”课是为北京大学地理、环境等非地质专业本科生开设的有关地球科学,特别是关于地壳的组成、构造和演化知识的基础课,课程由三部分核心内容构成:(一)地壳的物质组成,讲述矿物和岩石学基本内容,认识重要的常见矿物和岩石;(二)地壳的地质构造,介绍有关地质构造和大地构造的基本知识,重点学习褶皱构造、断层构造,以及板块构造学说;(三)地壳演化简史。

英文简介 (Course Description) :
Field practice of Earth Sciences

-End-

课程号 (Course Number) : 01231641
课程名称 (Course Title) : 普通地质实习A讨论班/Seminar on field geology
开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences
学分 (Credits) : 0
授课教师 (Faculty) : 张志诚 教授 Professor

先修课程 (Prerequisites) : 无

中文简介:

普通地质野外教学实习对地球与空间科学学院地质和地球化学专业一年级学生来说是一次地质启蒙教育,是一次重要的认识实习。除了老师的讲解和指导外,通过讨论课的形式,促使每位同学认真思考地质体和地质现象的地质作用过程,培养同学们独立思考的能力,努力使学生通过野外实习获得最好的学习和成长体验;不单纯强调知识和技能的传授,更加重视激励学生的好奇/自信/激情的内在发展动力与综合素质能力的培养。

英文简介 (Course Description) :

Introduction to Field Geology is the basic experience in many undergraduate geology programs, and is recommended for freshmen of the School of Earth and Space Sciences, Peking University. Except for the teacher's explanation and guidance, through the form of discussion seminar, each student is urged to seriously think about the geological

process of geological data, cultivate the students' ability of independent thinking, and strive to make the students obtain the best learning and growth experience through field geology. It does not simply emphasize the knowledge and skills, but pays more attention to the internal development driving force of stimulating students' curiosity / confidence / passion and the cultivation of comprehensive quality and ability.

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课程号 (Course Number) : 01231641

课程名称 (Course Title) : 普通地质实习A讨论班/Seminar on field geology

开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences

学分 (Credits) : 0

授课教师 (Faculty) : 朱永峰 教授 Professor

先修课程 (Prerequisites) : 无

中文简介:

普通地质野外教学实习对地球与空间科学学院地质和地球化学专业一年级学生来说是一次地质启蒙教育, 是一次重要的认识实习。除了老师的讲解和指导外, 通过讨论课的形式, 促使每位同学认真思考地质体和地质现象的地质作用过程, 培养同学们独立思考的能力, 努力使学生通过野外实习获得最好的学习和成长体验; 不单纯强调知识和技能的传授, 更加重视激励学生的好奇/自信/激情的内在发展动力与综合素质能力的培养。

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-End-

课程号 (Course Number) : 01231641

课程名称 (Course Title) : 普通地质实习A讨论班/Seminar on field geology

开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences

学分 (Credits) : 0

授课教师 (Faculty) : 黄宝春 教授 Professor

先修课程 (Prerequisites) : 无

中文简介:

普通地质野外教学实习对地球与空间科学学院地质和地球化学专业一年级学生来说是一次地质启蒙教育，是一次重要的认识实习。除了老师的讲解和指导外，通过讨论课的形式，促使每位同学认真思考地质体和地质现象的地质作用过程，培养同学们独立思考的能力，努力使学生通过野外实习获得最好的学习和成长体验；不单纯强调知识和技能的传授，更加重视激励学生的好奇/自信/激情的内在发展动力与综合素质能力的培养。

英文简介 (Course Description) :

Introduction to Field Geology is the basic experience in many undergraduate geology programs, and is recommended for freshmen of the School of Earth and Space Sciences, Peking University. Except for the teacher's explanation and guidance, through the form of discussion seminar, each student is urged to seriously think about the geological process of geological data, cultivate the students' ability of independent thinking, and strive to make the students obtain the best learning and growth experience through field geology. It does not simply emphasize the knowledge and skills, but pays more attention to the internal development driving force of stimulating students' curiosity / confidence / passion and the cultivation of comprehensive quality and ability.

-End-

课程号 (Course Number) : 01231641

课程名称 (Course Title) : 普通地质实习A讨论班/Seminar on field geology

开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences

学分 (Credits) : 0

授课教师 (Faculty) : 董琳 副教授 Associate Professor

先修课程 (Prerequisites) : 无

中文简介:

普通地质野外教学实习对地球与空间科学学院地质和地球化学专业一年级学生来说是一次地质启蒙教育，是一次重要的认识实习。除了老师的讲解和指导外，通过讨论课的形式，促使每位同学认真思考地质体和地质现象的地质作用过程，培养同学们独立思考的能力，努力使学生通过野外实习获得最好的学习和成长体验；不单纯强调知识和技能的传授，更加重视激励学生的好奇/自信/激情的内在发展动力与综合素质能力的培养。

英文简介 (Course Description) :

Introduction to Field Geology is the basic experience in many undergraduate geology programs, and is recommended for freshmen of the School of Earth and Space Sciences, Peking University. Except for the teacher's explanation and guidance, through the form

of discussion seminar, each student is urged to seriously think about the geological process of geological data, cultivate the students' ability of independent thinking, and strive to make the students obtain the best learning and growth experience through field geology. It does not simply emphasize the knowledge and skills, but pays more attention to the internal development driving force of stimulating students' curiosity / confidence / passion and the cultivation of comprehensive quality and ability.

-End-

课程号 (Course Number) : 01231641

课程名称 (Course Title) : 普通地质实习A讨论班/Seminar on field geology

开课院系 (School/Department) : 地球与空间科学学院/School of Earth and Space Sciences

学分 (Credits) : 0

授课教师 (Faculty) : 张元元 助理教授

先修课程 (Prerequisites) : 无

中文简介:

普通地质野外教学实习对地球与空间科学学院地质和地球化学专业一年级学生来说是一次地质启蒙教育, 是一次重要的认识实习。除了老师的讲解和指导外, 通过讨论课的形式, 促使每位同学认真思考地质体和地质现象的地质作用过程, 培养同学们独立思考的能力, 努力使学生通过野外实习获得最好的学习和成长体验; 不单纯强调知识和技能的传授, 更加重视激励学生的好奇/自信/激情的内在发展动力与综合素质能力的培养。

英文简介 (Course Description) :

Introduction to Field Geology is the basic experience in many undergraduate geology programs, and is recommended for freshmen of the School of Earth and Space Sciences, Peking University. Except for the teacher's explanation and guidance, through the form of discussion seminar, each student is urged to seriously think about the geological process of geological data, cultivate the students' ability of independent thinking, and strive to make the students obtain the best learning and growth experience through field geology. It does not simply emphasize the knowledge and skills, but pays more attention to the internal development driving force of stimulating students' curiosity / confidence / passion and the cultivation of comprehensive quality and ability.

-End-

课程号 (Course Number) : 01539340

课程名称 (Course Title) : 地貌实习/Field Practice of Geomorphology

开课院系 (School/Department) : 城市与环境学院/College of Urban and Environmental Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 张家富 教授 Professor

先修课程 (Prerequisites) : 地貌学

中文简介:

实习地区主要包括山西大同盆地、河北秦皇岛地区。大同盆地是我国地貌类型丰富（包括山地、平原、河流、火山、冲积扇、各种黄土地貌和新构造活动形迹及地貌，丰富的新生代沉积类型和良好的露头剖面）、丰富的历史人文景观，同时是我国重要的能源化工基地而又地处我国的生态脆弱地带，具有长期的地貌学研究历史和良好的研究基础，因而是我国最理想的地貌学教学实习地区。秦皇岛地区拥有十分齐全和典型的海岸地貌组合以及典型的滨海平原和具有特色的基岩山地地貌，而且是我国十分重要的港口城市 and 最重要的海滨旅游城市。两个地区包括了属于地貌学研究对象的大部分地貌类型和地貌过程。通过本次实习课程的学习，学生在教师指导下，系统学习和掌握地貌学野外研究的基本方法。包括如何围绕研究目的，收集和相关资料，制定野外考察和研究方案；针对各种宏观和微观的地貌现象，如何观察、测量、分析、研究、描述和记录；资料整理、分析研究、图表绘制、研究报告撰写等。通过实习，还可以对自然地理、经济地理、历史与人文地理、风景旅游、资源开发与环境保护等问题获得较多的感性认识。

英文简介 (Course Description) :

The areas for the field training included Datong Basin in Shanxi Province and Qinhuangdao City in Hebei Province. In Datong Basin there are many types of landforms such as mountains, plain, rivers, alluvial fans, and different types of typical loess landforms. There are also lots of phenomena of neotectonic movements and neotectonic landforms, such as fault scarps, fault grabens or horsts, volcano cones, basaltic lava plateaus or ridges. And there are also many different types of Cenozoic sediments and many good geologic outcrop sections. There are also very rich in historic and cultural scenic spots. The region is one of the most important energy sources and chemical industry of China though it is an ecologically fragile region. The region of Qinhuangdao City is a coastal region, which included almost all types of coastal landforms, typical coastal plain and unusual beautiful mountains. Qinhuangdao City is one of the most important tourist city as well as a famous historical cultural city and an important modern seaport. The two regions included most types of landforms and geomorphologic processes and evolutionary history. There is a long history of geomorphological and Quaternary and geographical research on the regions. So the regions are very ideal for field training in geomorphology.

In the training course the students will systematically learn the field research methods of geomorphology, which include how to collect relevant literature materials, maps and other information, draw up a plan for the field investigation and research program, how to observe, measure, analyze, research, describe and to record the results, how to analyze the materials, draw maps and diagrams, and to write the research report of the regions based on the research purpose and under the guidance of teachers. From the training course the students can also get some perceptual knowledge of physical geography, economic geography, historical and cultural geography, scenery and tourist geography, resource exploitation, environmental and ecological sciences.

-End-

课程号 (Course Number) : 01630580

课程名称 (Course Title) : 人际沟通分析学/Transactional Analysis

开课院系 (School/Department) : 心理与认知科学学院/School of Psychological and Cognitive Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 杨眉(校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

人际沟通分析学 (Transactional Analysis, 又译交互作用分析学) 由美国学者E. 伯恩首倡, 其要点是研究人们在沟通与交流中相互影响的心理规律, 通过分析人们交流中的表现去观察人们, 以找出妨碍人沟通的心理原因, 并从中提取健康的交流和沟通模式。人际沟通分析学不仅可以帮助我们更好地与他人沟通, 而且还向我们提供了与他人实现共同成长的心理学方法。目前人际沟通分析学是国际上非常流行的心理学理论之一。这个理论既是一个有效率的心理治疗理论, 同时也是一个非常有效率的心理自助工具, 可以有效促进人的心理健康, 并提升人的生活质量和幸福感。

英文简介 (Course Description) :

Transactional Analysis, founded by American psychiatrist Eric Berne, majorly researches the psychology law of transaction within the interpersonal communication. The theory aims to observe individuals in-depth by analysing their behaviors in the transaction process, in order to reveal the psychological causes obstructive to it and eventually extract constructive and healthy models for communication. Transactional Analysis not only helps people to link-up with others better, but also offers a psychological approach for them to grow together in community.

Transactional Analysis is currently one of the most popular theories of psychology throughout the world. It is an effective theory for psychotherapy as well as an efficient method for psychological self-help, which promotes people's mental health, improves their quality of life and boosts their well-being.

-End-

课程号 (Course Number) : 01630713

课程名称 (Course Title) : 时间与认知/Time and Cognition

开课院系 (School/Department) : 心理与认知科学学院/School of Psychological and Cognitive Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 包燕 副教授 Associate Professor

先修课程 (Prerequisites) : 普通心理学

中文简介:

时间在认知加工和日常生活中具有不可忽视的重要作用。本课程采用全英文教学方式,通过围绕时序知觉、时距估计、感觉运动同步、主观现在、日节律等一些列专题的介绍与讨论,旨在为学生提供时间与认知相关领域的广阔视角,了解该领域的前沿问题和研究方法,激发学生的好奇心和科学研究热情,为其将来从事相关研究打下坚实基础。

英文简介 (Course Description) :

Time is a fundamental aspect of cognitive processing and daily life. This course is a elective course designed for both undergraduate and graduate students, aiming to provide them broad viewpoints as well as advanced research on time-related essential topics such as temporal order perception, duration estimation, sensorimotor synchronization, subjective present, circadian rhythms etc..

-End-

课程号 (Course Number) : 01630725

课程名称 (Course Title) : 系统论与系统式心理治疗/Systems Theory and Systematic Psychotherapy

开课院系 (School/Department) : 心理与认知科学学院/School of Psychological and Cognitive Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 李松蔚(校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

作为一门科学的系统论(System Approach),是由美籍奥地利人、理论生物学家L. Von. Bertalanffy创立的。他在1968年出版的专著:《General System Theory: Foundations, Development, Applications》,被认为是系统论的奠基之作。

系统是指由若干元素,以一定结构形式联结构成的,具有某种功能的有机整体。大至宇宙,小至微观的原子,都可以看成一个系统。整个世界就是系统的集合。

系统论认为,开放性、自组织性、复杂性,整体性、关联性,动态平衡性,是所有系统共同的基本特征。系统论的核心思想是系统的整体观念。任何系统都是一个有机的整体,而不是各个部分的机械组合或简单相加,系统的整体功能是各元素在孤立状态下所没有的性质。同时,系统中各元素不是孤立的存在,每个元素在系统中都处于一定的位置,起到特定的作用。元素之间相互关联,构成了一个不可分割的整体。元素是整体中的元素。

系统论的研究对象是各种各样的系统。其基本思想方法,就是始终从整体出发,分析系统的结构和功能,研究系统、元素、环境三者的相互关系和变动的规律性。

系统论在自然科学和社会科学领域都得到了广泛应用。在社会生活中，人与人也组成了不同系统。一个家庭，一个企业，一所学校，一个国家……都可以从系统的角度加以研究，理解其规律。因此，出现了以系统思想为指导的心理学工作方法，例如系统式家庭治疗，系统式组织管理。这些方法与传统的心理学工作有本质区别。在引入系统的视角之后，对个体相互的行为，信息交换，认识论的形成等，往往会看到不一样的角度。

系统论的出现，使人类的思维方式发生了深刻变化。以往研究问题，一般是把事物分解成若干部分，分离出最简单的元素，然后以部分的性质去说明复杂事物。这种方法的着眼点在局部或元素，遵循的是线性因果决定论。它往往更适用于认识较为简单的事物，而不能胜任对复杂问题的研究。本课程旨在介绍系统论的基础思想，特别聚焦于系统论在心理学中的应用，帮助学生理解人类行为的系统性，开放性，和复杂性。并介绍控制论、信息论等其他新兴科学思想所提供的视角和方法，为理解和组织人类的行为开拓新思路。

英文简介 (Course Description) :

System Approach, as a scientific theory, has been founded by the Austrian theoretical biologist, L. Von. Bertalanffy. His monograph published in 1968, "General System Theory: Foundations, Development, Applications", is considered to be the foundation of system theory.

The system is defined as an organism, composed of different elements, which function in a certain form. The universe, and micro atoms, can be viewed as systems. The whole world is a collection of systems.

The system theory holds that openness, self-organization, complexity, integrity, relevance and dynamic balance are common basic features of all systems. All system is an organic entirety, not a mechanical combination or a simple collection of all parts. The system functions according to the nature that none of the elements has an isolated state. Each element, in a certain position of the system structure, plays a specific role. The interconnections between elements constitute an inseparable entirety. Each element is an element in the entirety.

The systems theory investigates a variety of systems. The basic way of thinking is to analyze the structure and function of the system from the perspective of entirety, and analyze the relationship among the entirety, the elements, and the environment.

System theory has been widely used in the field of natural science and social science. In social life, people also form different systems, a family, an enterprise, a school, or a country etc. The rules of system theory can also be applied in daily life. Therefore, psychological working methods have emerged with the perspective of the systematic thinking, such as systematic psychotherapy or management. These methods are essentially different from the traditional psychological work. The behavior, the information exchange, and the formation of epistemology could be organized from a new perspective.

The emergence of system theory has made a profound change in the way of thinking. During the past, the research methods usually divided the object into smaller parts, separating

different elements, and then explaining the complexity as the collection of different parts. This method focuses on local, following the traditional causal-effect thinking. It is often more applicable to understand simpler things, but not to the complex problems.

This course aims at introducing the basic idea of system theory, especially focusing on the application of system theory in psychology. Students are expected to understand the systematicness, openness and complexity of human behavior from this course. Together with the perspectives and methods provided by other emerging scientific ideas such as cybernetics and information theory, new ideas for understanding and organizing human behavior can be opened up.

-End-

课程号 (Course Number) : 01831990

课程名称 (Course Title) : 跨文化交流学/Inter-cultural Communication

开课院系 (School/Department) : 新闻与传播学院/School of Journalism and Communication

学分 (Credits) : 2

授课教师 (Faculty) : 许静 教授 Professor, 李臻怡(校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

当今在“地球村”中，人们生活在跨文化交流日益频繁的社会环境里。跨文化的知识和能力是21世纪大学教育，特别是素质教育的内容之一。

本课的目的是：使选课者掌握“跨文化交流学” (Intercultural Communication) 这一传播学分支的基本概念和基本理论，增加中外跨文化交流知识，提高跨文化交流技能，建立跨文化交流意识，培养分析和解决跨文化交流问题能力。

英文简介 (Course Description) :

In today's "Global Village", people are experiencing more frequent interaction across cultures. Knowledge and competence in intercultural communication are essential for 21st century university education, in particular as part of overall character development for the students.

The objective of this course is to equip the students with basic concepts and theories of Intercultural Communication as a branch of communication studies with enhanced knowledge, competence, and awareness, as well as analysis skills to resolve intercultural challenges.

-End-

课程号 (Course Number) : 01832150

课程名称 (Course Title) : 媒体与国际关系/Media and International Relations

开课院系 (School/Department) : 新闻与传播学院/School of Journalism and Communication

学分 (Credits) : 2

授课教师 (Faculty) : 陈开和 教授 Professor

先修课程 (Prerequisites) : 不要求先修课程, 但选课同学需阅读并熟悉现当代国际关系历史, 并具有较好的英语阅读能力。

中文简介:

本课程将结合具体案例, 帮助选课学生熟悉有关“媒体与国际关系”的主要理论视角, 媒体在不同国际关系形态中发挥作用的主要方式, 以及媒体在我国对外关系中的影响。

英文简介 (Course Description) :

This course will familiarize students with the basic theoretical perspectives in the field of Media and International Relations. It will also introduce the roles that media play in major international relations formats like war, diplomacy and international public relations. In the final part, the course will discuss the relationship between media and China`s foreign relations.

-End-

课程号 (Course Number) : 01834110

课程名称 (Course Title) : 数据新闻/Data Journalism

开课院系 (School/Department) : 新闻与传播学院/School of Journalism and Communication

学分 (Credits) : 2

授课教师 (Faculty) : 许静 教授 Professor, 叶韦明(校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

欢迎选修《数据新闻》。我们生活在一个数字世界中, 这个世界里几乎所有的事物都可以用数字来描述, 我们所有的故事、历史、关系都可以用数字的形式来展现。在数字时代, 数字新闻即在生产和发布新闻的过程中加剧使用数字信息知识与技能。它反映了内容生产和其他领域如设计、计算机科学和统计日益增加的互动。

本课程从介绍数据新闻开始, 包括经典案例和知名的新闻编辑室; 之后讲解如何获取数据、如何鉴别数据、如何清理数据; 并从数据的描述和数据的分析两个角度, 与学生一起实践, 学习基于数据制作图表、地理信息图、及社会网络图; 最后, 基于理解和分析数据, 发掘与读者互动的功能, 并学会基于数据讲故事、写新闻。

本课程通过研究案例的分析、学生小组动手实践, 帮助学生使用数据生产深度的内容产品。在课程中安排一次与中山大学数据实验室的教师和学生互动交流。

英文简介 (Course Description) :

This course teaches some of the skills and techniques necessary for using statistical information effectively in science journalism. Obtaining, interpreting, visualizing and displaying data are essential skills for journalists in the 21st Century, especially those who cover scientific and technical subjects. Students will scrutinize techniques used in previously published projects and will also analyze data on their own, evaluating and producing tables, charts and diagrams using a variety of basic desktop software, web tools and basic scripting and programming.

Instructor: WeiMing YE

Email: yewm@pkusz.edu.cn

-End-

课程号 (Course Number) : 01834310

课程名称 (Course Title) : 宏观经济报道: 理论、问题与新闻评论/Macroeconomic Reporting: Theory, Issues and Opinion Pieces

开课院系 (School/Department) : 新闻与传播学院/School of Journalism and Communication

学分 (Credits) : 2

授课教师 (Faculty) : 俞虹 教授 Professor, 陈晋(校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

做经济报道需要一定的知识储备, 至少要熟悉经济领域的技术词汇和基本思维框架。这门课程致力于介绍做经济报道所需要的基本经济理论和概念, 积累必要的技术知识(这本身就是一门语言), 以便学生理解时事、关心时事, 并逐渐形成自己的观点。课程通过让学生阅读从英文主要媒体精选的约40篇新闻评论了解世界动向, 启发学生思考经济政策和社会现象。课程要求学生选择自己感兴趣的话题, 练习用英文表达自己的见解, 在边学习、边讨论、边练习的过程中熟悉宏观经济新闻报道与评论的写作过程和基本模式。

英文简介 (Course Description) :

This course is designed to equip students with basic economic concepts and theoretical framework for thinking about some of the important issues of the day, as reported and commented in major English media outlets. By studying more than 40 op-ed pieces by some well known economists, policymakers and journalists, I hope to acquaint students with the best minds of American columnists. These op-ed pieces cover some of today's intensely debated issues: trade wars, internationalization of the RMB, macroeconomic policy adjustments through monetary and fiscal policies. My role will be to help students understand the issues under debate, the purpose of writing, the internal logic of each author's argument, and stimulate students to think about why these pieces are well argued and well written. I will lead students to appreciate the subtleties in these

articles which most effectively reflect the author's intentions. Some optional readings are listed at the end of each week's teaching schedule for those students who are interested in more depth of the subject matters. They range from academic papers to policymakers' speeches and to industry research by practitioners.

-End-

课程号 (Course Number) : 01832910

课程名称 (Course Title) : 视频编辑/Video Editing

开课院系 (School/Department) : 新闻与传播学院/School of Journalism and Communication
学分 (Credits) : 2

授课教师 (Faculty) : 严富昌 高级工程师 Senior Engineering

先修课程 (Prerequisites) : 无

中文简介:

了解视音频编辑的基本概念、基本流程、剪辑方法、特效合成和输出,熟悉Avid Media Composer非线性编辑软件的基本操作流程,以及前期拍摄设备的使用。培养学生掌握视频素材采集与管理、视频剪辑、声音剪辑、运动特效及专场、字幕特效、色彩校正、视频输出等实践操作的技能。

英文简介 (Course Description) :

This lesson help to students understand the basic concepts , the basic process of video editing, editing methods, effects compositing and output. We will learn and master the basic grammar non-linear editing commonly software in Avid Media Composer, and the use of early shooting equipment. We will understand master upload video clips, video editing, sound effects, subtitles, special effects, color correction, video output and other practical skills.

-End-

课程号 (Course Number) : 02034960

课程名称 (Course Title) : 经学通论/General Theory of Classical Confucianism

开课院系 (School/Department) : 中国语言文学系/Department of Chinese Language and Literature

学分 (Credits) : 2

授课教师 (Faculty) : 顾永新 研究员 Research Fellow

先修课程 (Prerequisites) : 现代汉语

古代汉语

中文简介:

中国文化以儒家思想为主体，而儒家思想的直接载体就是儒家经典，其书称作经书，其学称作经学。不读经书，就不能了解儒家思想；不了解儒家思想，就无法认识中国文化。所以，认识中国文化须从儒家经典开始。广义的经学，统摄于儒学之下，是儒家学术的正统。它直接表现为一种实践伦理学，同时也是一种政治哲学，推己及人，修身齐家，经世致用。作为狭义的学术范畴，经学包括对儒家经典文本的思想义理的研究，名物典制、章句训诂的研究，经书的文献学研究，以及经学家和经学流派的研究，经学发展、演变的历史的研究，经学与其他学术门类相互之间关系的研究等等。在“五四”以前中国两千多年的历史长河中，所谓学术就是以经学为主干，学人以名列儒林为荣，著述以敷赞经典为贵，派别纷繁，训解浩瀚，构成了中国古代学术史的核心和发展的主线，也是中国古代社会主流意识形态的代表形式，对于学术、文化乃至政治经济、社会生活的发展都有着深刻的影响，也对古代朝鲜、日本等周边国家产生了重大影响。

“经学通论”课程拟从讲授经学范畴的内涵和外延入手，旁及经学史的演进轨迹和经学文献的主干系统（严格辨析经学、经学史和经学文献），以十三经的成书源流、内容构成、思想旨趣及历代整理研究成果为主，辅以经书文本的讲读。

英文简介 (Course Description) :

Chinese culture is generally seen as being rooted in Classical Confucianism, of which the Five Classics are the basic texts. With particular emphasis on the importance of the family and social harmony, the core of Classical Confucianism is humanistic. In its widest sense, Classical Confucianism is described as an ethics and even a way of governing. In its limited sense, it is a study on Confucian classic texts. It is related to historiography, philology, philosophy and bibliography. It has great impact on Chinese traditional culture, politics and social life. Even Japan and Korea, included in the Chinese cultural sphere, are also strongly influenced by Classical Confucianism. Our course is starting with the introduction of Classical Confucianism, focusing on the texts of Thirteen Classics. We are going to depict the history of how Classical Confucianism has been developing during the last over 2000 years, and discuss how to understand and study Classics.

-End-

课程号 (Course Number) : 02133200

课程名称 (Course Title) : 圣经阿拉美语入门/Introduction to Biblical Aramaic

开课院系 (School/Department) : 历史学系/Department of History

学分 (Credits) : 2

授课教师 (Faculty) : 林丽娟 助理教授，村冈崇光(校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

作为西北闪米特语的分支，阿拉美语及其诸方言具有特殊的重要性。它曾是波斯阿谢美尼德王朝的官方语言，是中东地区伊斯兰化之前的通用语言，和希腊语和拉丁语同属于最重要的基督

教语言，被称为耶稣的母语。阿拉美语的学习对多个领域如闪米特语言学、古波斯史、古希腊史、罗马帝国近东史、古代晚期史、圣经研究、教父研究、景教研究等均具有关键意义。本次课程邀请到前荷兰莱顿大学希伯来语教席教授、著名闪米特语专家村冈崇光先生，将系统讲授圣经阿拉美语基本知识。

英文简介 (Course Description) :

As a branch of the Northwest Semitic languages, Aramaic and its dialects have a special importance. It was the official language in the Achaemenid empire, the common language of the Middle East before its Islamization, and one of the most important Christian languages along with Greek and Latin, known as the mother tongue of Jesus. The study of Aramaic is significant to several fields such as Semitic Linguistics, Ancient Persian History, Ancient Greek History, History of the Roman Near East, History of late antiquity, Biblical Studies, Patristic Studies and Studies of Nestorian Christianity. This course invites Prof. Takamitsu Muraoka, former Chair of Hebrew, Israelite Antiquities and Ugaritic at Leiden University and a renowned expert in Semitic languages, to systematically teach the basics of Biblical Aramaic.

-End-

课程号 (Course Number) : 02532600

课程名称 (Course Title) : 经济学原理/Principle of Economics

开课院系 (School/Department) : 经济学院/School of Economics

学分 (Credits) : 3

授课教师 (Faculty) : 张元鹏 副教授 Associate Professor

先修课程 (Prerequisites) : 微积分、线性代数

中文简介:

经济学包括微观经济学和宏观经济学。本课程主要讲授微观经济学的有关内容。其研究对象是单个家庭、单个企业、单个市场。主要研究消费者行为，生产者行为，市场均衡以及垄断等问题，它还试图说明现代经济中市场机制的政府的作用。

英文简介 (Course Description) :

Economics includes microeconomics and macroeconomics. This course mainly teaches the fundamentals of microeconomics. Topics include consumer theory, producer theory, the behavior of firms, market equilibrium, monopoly, and the role of the government in the economy.

-End-

课程号 (Course Number) : 02533710

课程名称 (Course Title) : 会计学原理/Principle of Accounting

开课院系 (School/Department) : 经济学院/School of Economics

学分 (Credits) : 3

授课教师 (Faculty) : 张元鹏 副教授 Associate Professor

先修课程 (Prerequisites) : 在学习《会计学原理》之前, 学生们最好能先修《经济学原理》、《金融学原理》等主干课。

中文简介:

会计学原理主要讲述会计概论、会计科目与复式记账, 会计凭证, 会计账簿, 流动资产, 长期资产, 负债, 所有者权益, 费用与成本, 收入与利润, 财务报表, 会计管理等内容, 结合中国资本市场上市公司的案例, 尽量做到生动有趣。

英文简介 (Course Description) :

Accounting principles mainly about accounting introduction, accountant course and double entry accounting, and accounting vouchers, account books, current assets, long-term assets, liabilities, owner`s equity, expenses and costs, income and profits, financial statements, accounting management content, with China`s capital market of the listed company of case, try to be lively and interesting.

-End-

课程号 (Course Number) : 02535500

课程名称 (Course Title) : 经济学研究训练/Trainings on Economic Research

开课院系 (School/Department) : 经济学院/School of Economics

学分 (Credits) : 2

授课教师 (Faculty) : 刘政文 助理教授

先修课程 (Prerequisites) : 经济学原理、中级微观经济学、中级宏观经济学

中文简介:

本课程目的是帮助学生熟悉经济学研究范式, 了解研究方法, 指导学生写作研究计划。本课程综合采用教师讲授、课堂讨论、学生报告等方式授课, 为学生提供良好的互动学习环境。在课程前两周, 教师将讲解多种实证经济学研究方法, 并带领学生研读经典论文。两周课程结束后, 学生将对如何规范地开展经济学研究及撰写论文有所了解, 并能够初步确立其研究兴趣。接下来, 学生将用一周时间独立完成一份高质量的研究计划。教师将调整一部分课时至第三周, 由选课学生分别进行研究计划的展示, 教师将予以指导。

英文简介 (Course Description) :

The purpose of this course is to help students become familiar with economic research paradigms, understand research methods, and guide students in writing research plans. This course is taught using a combination of lectures, students` reports, classroom

discussions, etc., to provide a good interactive learning environment for students. At the end of the course, students will have an understanding of how to conduct economics research and writing academic papers in a standardized manner, and be able to initially establish their research interests, independently complete a high-quality research plan, and be prepared to write an undergraduate thesis in the field of economics.

-End-

课程号 (Course Number) : 03132550

课程名称 (Course Title) : 社会调查实践/Practise

开课院系 (School/Department) : 社会学系/Department of Sociology

学分 (Credits) : 4

授课教师 (Faculty) : 张帆 助理教授

先修课程 (Prerequisites) : 无

中文简介:

专业实习安排在大三进行，其目的是在专业学习和调查的基础上，让学生对本专业有更具体深刻的认识。通过跟随导师在相关单位或项目的实地调研，更深入地了解社会学应用，将所学的专业知识初步应用到实际中去。

英文简介 (Course Description) :

The course is aimed to improve the ability of field research for the third-year students in sociology. To get the credit of this course, the students are required to go in field to do research under the supervision of the instructing teachers, and finish the research report.

-End-

课程号 (Course Number) : 03631990

课程名称 (Course Title) : 速成法语（零起点）/French for Reading from scratch

开课院系 (School/Department) : 外国语学院/College of Foreign Languages

学分 (Credits) : 2

授课教师 (Faculty) : 孙凯 副教授 Associate Professor

先修课程 (Prerequisites) : 无

中文简介:

本课程旨在用32学时使零起点学生了解法语的发音规则，熟练掌握重要语法知识，全面领会基础语法，能够应用常见词汇和实用句型，在借助字典的情况下具备中、高级法语阅读能力以及初级听、说、写、译的能力，并能够从事一般性国际文化交流及科研工作。

英文简介 (Course Description) :

This course is designed to enable students from the starting point to learn French pronunciation rules, acquire important grammar knowledge, fully understand the basic grammar, apply common vocabulary and practical sentences within 32 hours. Through training, students can acquire intermediate and advanced French reading ability with the help of dictionaries, and have the ability of primary listening, speaking, writing and translating, as well as being able to engage in general international cultural exchange and scientific research.

-End-

课程号 (Course Number) : 03633331

课程名称 (Course Title) : 西班牙语及西班牙文化/Introduction to the Spanish Language and Culture

开课院系 (School/Department) : 外国语学院/College of Foreign Languages

学分 (Credits) : 2

授课教师 (Faculty) : 宋扬 助理教授

先修课程 (Prerequisites) : 无。学生无需具有西班牙语基础。

中文简介:

“西班牙语及西班牙文化（初级）”是2013年开设的“西班牙文化纵览”的升级版。较旧版课程，“西班牙语及西班牙文化（初级）”加入了西班牙语语言的学习，帮助零起点学员掌握西班牙语基本知识及常用表达方式。课程秉持“语言为骨、文化为魂”的理念，在语言方面，旨在指导学生准确掌握西班牙语的发音方法与拼读规则，大体了解西班牙语的语法体系，能够使用餐饮、购物、旅游、交友等领域常用语句。在文化方面，课程以美食、节日、人文遗产等具体文化形式为主线，带领学员走进西班牙，引导他们细致、深刻地了解西班牙人的思维方式、民族特性，为今后有可能赴西班牙留学、工作，抑或短期旅游、访问，甚至与西班牙人有工作往来的学员打开一扇新的大门。

英文简介 (Course Description) :

This course of Peking University is aimed at students of Chinese nationalities who want to learn Spanish language and culture. The Spanish culture –its art and architecture, its different regional traditions, its traditional dances and fiestas, its history and so on– is so rich that it is impossible, here, to describe all the aspects of Spanish culture our courses cover. We look at Picasso and Dalí, regional dances and music (like flamenco), the Easter processions and San Fermin, the Spanish gastronomy, the universities... By learning this course, the students will be able to avoid conflict and unpleasantness during Contacts with Spanish people.

-End-

课程号 (Course Number) : 03636900

课程名称 (Course Title) : 意大利语言和文化/Italian Language and Culture

开课院系 (School/Department) : 外国语学院/College of Foreign Languages

学分 (Credits) : 2

授课教师 (Faculty) : 成沫 助理研究员 ? Research Associate, GUIMMARRA GIUSEPPINA (校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

本课程介绍意大利的语言和文化。在课程的前六天，每天的课程分为三个主要部分:文化、城市和语言。前两个部分是联系在一起的，因为将介绍每个城市的文化、历史和艺术遗产等方面。另外还将按历史线索介绍文学、音乐、重要历史人物等意大利文化的其他方面。语言课则以日常用语为主，使学生掌握以语法解释为基础的基本表达。最后，将由都灵大学的教授将带来关于当代意大利社会和中意关系的讲座。

英文简介 (Course Description) :

The course provides an introduction to Italian language and culture. The first six days are each divided into three sections: culture, cities, and language. The first two sections go hand in hand because the cities are presented in terms of its culture, history and artistic heritage. Students will study aspects of Italian society, art, literature, and music from a historical perspective, as well as prominent historical figures. The language teaching will focus on basic expressions, grammar and everyday mores. During the last two days, Professors from the University of Turin will give lectures on contemporary Italian society and Sino-Italian relationship.

-End-

课程号 (Course Number) : 03835983

课程名称 (Course Title) : 世界英语与英语世界/World Englishes and the English World

开课院系 (School/Department) : 英语语言文学系/English Language and Literature

学分 (Credits) : 2

授课教师 (Faculty) : 徐志长(校外) 待定

先修课程 (Prerequisites) : 大学英语C级课程

中文简介:

本课程主要介绍“世界英语”(World Englishes)这门学科的发展现状，以及理论与实践。课程内容包括英国英语、美国英语、澳大利亚英语、以及其它国家和地区(包括东南亚各国和中国)的英语发展和使用。本课程的目的是使学生能够了解世界英语的基本理论和在英语世界

(the English world)的本土化发展和使用。本课程的教学要求是，学生具有本科以上的英语基础，并了解一些各国英语变体（例如英国英语，美国英语和中国英语）之间的差异和相似之处。

英文简介 (Course Description) :

This course introduces the developments of the discipline of World Englishes, and relevant theories and practices. It covers British English, American English, Australian English, and other Englishes, including major Southeast Asian Englishes and Chinese English, in terms of their use and development. The major objective of this course is to enable students to understand fundamental theories of World Englishes and how they are nativised and used in local contexts. The requirement for taking the course is that students should have an English proficiency at or above the tertiary level, and a basic understanding of the variations and similarities among major English varieties (e.g., British English, American English and Chinese English).

-End-

课程号 (Course Number) : 03835988

课程名称 (Course Title) : 文化人类学概论/Introduction to Cultural Anthropology

开课院系 (School/Department) : 英语语言文学系/English Language and Literature

学分 (Credits) : 2

授课教师 (Faculty) : 雷静(校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

该课程以英文为媒介浅显易懂地介绍文化人类学的主要理论和方法，并通过系统的分析、解释和比较不同族群的语言交流、经济活动、亲属系统、性别关系等文化现象和风俗习惯，揭示全人类文化的共性和特性。

英文简介 (Course Description) :

This course is an introduction to cultural anthropology, the subfield of anthropology that examines various contemporary societies and cultures throughout the world. It aims to help students gain a general understanding of the theories, methods, and analysis used in the field of Cultural Anthropology. By systematically analyzing many socio-cultural factors, such as language, subsistence, family, kinship, gender, political system, religion, and etc., it will illuminate basic similarities and differences among all peoples and cultures.

-End-

课程号 (Course Number) : 03835610

课程名称 (Course Title) : 法律英语/Legal English
开课院系 (School/Department) : 英语语言文学系/English Language and Literature
学分 (Credits) : 2
授课教师 (Faculty) :

先修课程 (Prerequisites) : n/a

中文简介:

该课程旨在向学生介绍法律英语，帮助学生掌握各种情形下所需的法律英语写作知识。主要内容包括：

- 1) 用通俗易懂的英语写作法律文本；
- 2) 说服性法律文本写作的基本原则；
- 3) 法律文本起草的基本原则。

学生将分步进行研究、起草纲要、完成写作任务。本课程注重培养和提高学生的批判性思维能力。

英文简介 (Course Description) :

This advanced undergraduate course introduces students to legal English. The course will prepare students for a variety of situations in which legal English writing is required. Major topics will include:

- 1) legal writing in plain English;
- 2) basic principles of persuasive legal writing; and
- 3) basic principles of legal drafting.

Students will undertake research, outline, and writing tasks. Critical thinking skills will be encouraged throughout.

-End-

课程号 (Course Number) : 04130030
课程名称 (Course Title) : 太极拳/Shadowboxing
开课院系 (School/Department) : 体育教研部/Section of Physical Culture
学分 (Credits) : 1
授课教师 (Faculty) : 杜军明 讲师 Lecturer

先修课程 (Prerequisites) : 无

中文简介:

一、课程介绍

太极拳是一种柔和、缓慢、轻灵的拳术，它以棚、捋、挤、按、采、列、肘、靠、进、退、顾、盼、定等为基本势法（俗称八法五步）。动作轻柔圆活，虚实分明，处处带有弧形，运动绵绵不断，势势相承。

本课程主要学习“二十四式太极拳”也叫“简化太极拳”，其内容精练，动作规范，数量合理，易学易练，能充分体现太极拳的运动特点。通过练习，对外能利关节，强筋骨，壮体魄；对内能理脏腑，通筋脉，调精神。对调节内环境的平衡，调养气血，缓解身心疲劳，改善人体机能，

增强体质十分有益。

课程要求：

1. 原则上不允许同学蹭课。
2. 上下课时师生要相互行抱拳礼。
3. 上课前不得饮酒，暴饮暴食或空腹。上课期间，不允许抽烟，嚼口香糖或吃零食。
4. 学生如有身体不适或既往病史者，应在课前向老师报告，根据具体情况酌情考虑安排活动内容和运动量。
5. 上课必须着运动装和运动鞋，并把随身携带的书包、衣物等按老师要求摆放整齐。
6. 爱护器材。上课时，身上不携带任何可能伤害自己或他人的硬物。如：笔，手机，小刀，钥匙及钥匙链等。
7. 上课不得打手机或发短信，听随身听。
8. 练习过程中，要根据自身身体素质情况，量力而行，不要因为一时兴奋而动作过分用力或动作幅度过大，出现身体意外而受伤。
9. 需要同学配合练习时，要认真听取讲解，严格按老师要求去做，不允许嬉笑，打闹，冒险等极端个人行为，要营造团结，友爱，仔细，默契配合，相互帮助的练习氛围，以确保练习的安全和有效。
10. 不将贵重物品带到课堂，避免丢失。
11. 认真练习，再学会一定运动技能的同时，全面发展，提高自己的身体素质，达到增强体质的目的。

二、课程任务

1. 培养学生锻炼身体的习惯和顽强的意志品质以及“健康第一”的思想意识。
2. 增进健康，增强体质，全面提高学生的身体及心理素质。
3. 掌握二十四式太极拳基本理论，基本技术及全套动作。

英文简介 (Course Description) :

1. Introduction to This Course

Taijiquan (Tai Chi Quan) is a mild, slow, agile Chinese internal martial art, which includes eight positions of body and five positions of the feet, namely Beng, Lyu, Ji, An, Cai, Lie, Zhou, Kao, Jin, Tui, Gu, Pan, Ding in Chinese. The movement of Taijiquan is flexible and keeps the balance between strength and gentleness. ‘Oval’ -like, or ‘circle’ -like, movement, which symbolically reflects the endlessness of momentum and the essence of Harmony in Chinese philosophy, can be found in your everyday practice of Taijiquan.

This course is designed to educate 24-form Taichiquan, a simplified of Taichiquan which consists of 24 unique movements. Based on simple and normative movements, 24-form Taichiquan is easy to learn and students can quickly learn and experience the characteristics and essences of Taichiquan as a kind of philosophy, exercise and sports. Moreover, learning and practicing 24-form Taichiquan is beneficial to student’ s bones, muscles, internal organs and spirit. So, this course is a good choice not only for credits but also for student’ s health.

-End-

课程号 (Course Number) : 04130030

课程名称 (Course Title) : 太极拳/Shadowboxing

开课院系 (School/Department) : 体育教研部/Section of Physical Culture

学分 (Credits) : 1

授课教师 (Faculty) : 杜军明 讲师 Lecturer

先修课程 (Prerequisites) : 无

中文简介:

一、课程介绍

太极拳是一种柔和、缓慢、轻灵的拳术，它以棚、捋、挤、按、采、列、肘、靠、进、退、顾、盼、定等为基本势法（俗称八法五步）。动作轻柔圆活，虚实分明，处处带有弧形，运动绵绵不断，势势相承。

本课程主要学习“二十四式太极拳”也叫“简化太极拳”，其内容精练，动作规范，数量合理，易学易练，能充分体现太极拳的运动特点。通过练习，对外能利关节，强筋骨，壮体魄；对内能理脏腑，通筋脉，调精神。对调节内环境的平衡，调养气血，缓解身心疲劳，改善人体机能，增强体质十分有益。

课程要求:

1. 原则上不允许同学蹭课。
2. 上下课时师生要相互行抱拳礼。
3. 上课前不得饮酒，暴饮暴食或空腹。上课期间，不允许抽烟，嚼口香糖或吃零食。
4. 学生如有身体不适或既往病史者，应在课前向老师报告，根据具体情况酌情考虑安排活动内容和运动量。
5. 上课必须着运动装和运动鞋，并把随身携带的书包、衣物等按老师要求摆放整齐。
6. 爱护器材。上课时，身上不携带任何可能伤害自己或他人的硬物。如：笔，手机，小刀，钥匙及钥匙链等。
7. 上课不得打手机或发短信，听随身听。
8. 练习过程中，要根据自身身体素质情况，量力而行，不要因为一时兴奋而动作过分用力或动作幅度过大，出现身体意外而受伤。
9. 需要同学配合练习时，要认真听取讲解，严格按老师要求去做，不允许嬉笑，打闹，冒险等极端个人行为，要营造团结，友爱，仔细，默契配合，相互帮助的练习氛围，以确保练习的安全和有效。
10. 不将贵重物品带到课堂，避免丢失。
11. 认真练习，再学会一定运动技能的同时，全面发展，提高自己的身体素质，达到增强体质的目的。

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1. 培养学生锻炼身体的习惯和顽强的意志品质以及“健康第一”的思想意识。
2. 增进健康，增强体质，全面提高学生的身体及心理素质。
3. 掌握二十四式太极拳基本理论，基本技术及全套动作。

英文简介 (Course Description) :

1. Introduction to This Course

Taijiquan (Tai Chi Quan) is a mild, slow, agile Chinese internal martial art, which includes eight positions of body and five positions of the feet, namely Beng, Lyu, Ji, An, Cai, Lie, Zhou, Kao, Jin, Tui, Gu, Pan, Ding in Chinese. The movement of Taijiquan is flexible and keeps the balance between strength and gentleness. ‘Oval’ -like, or ‘circle’ -like, movement, which symbolically reflects the endlessness of momentum and the essence of Harmony in Chinese philosophy, can be found in your everyday practice of Taijiquan.

This course is designed to educate 24-form Taichiquan, a simplified of Taichiquan which consists of 24 unique movements. Based on simple and normative movements, 24-form Taichiquan is easy to learn and students can quickly learn and experience the characteristics and essences of Taichiquan as a kind of philosophy, exercise and sports. Moreover, learning and practicing 24-form Taichiquan is beneficial to student’s bones, muscles, internal organs and spirit. So, this course is a good choice not only for credits but also for student’s health.

-End-

课程号 (Course Number) : 04130040

课程名称 (Course Title) : 健美操/Aerobics

开课院系 (School/Department) : 体育教研部/Section of Physical Culture

学分 (Credits) : 1

授课教师 (Faculty) : 黄育 副教授 Associate Professor

先修课程 (Prerequisites) : 无

中文简介:

一、 课程介绍

1. 健美操是一项融体操、舞蹈、音乐为一体，以有氧练习为基础，以健、力、美为主要特征，具有高度艺术性的体育项目。

本课程主要教授健美操基本动作（包括基本姿态动作，基本难度动作和基本步伐组合），全国健美操大众锻炼标准三级套路。通过练习，培养正确体态，塑造美的体态，提高身体协调性、灵活性，并能创编适合自己锻炼的套路动作，达到增进健康，激发活力，愉悦身心的目的。

2. 安全注意事项:

(1) 穿着合适的有利于运动的运动服、运动鞋

(2) 上课时要注意自身和同学的安全，如有胸闷、心慌、头晕等身体处于疲劳状态、请向老师提出，由老师根据情况安排。

二、 课程任务

1. 掌握健美操的基本技术和相关理论，培养学生终身体育的观念。

2. 掌握一项终身体育锻炼技能，并在实践中发展学生的全面素质。

英文简介 (Course Description) :

Course Introduction:

Based on aerobic exercise, Aerobic Gymnastics is an artistic sport which combines Gymnastic, dance and Music, and has features of power and beauty.

?? In the course, students could learn basic movements of Aerobic Gymnastics, including basic posture, basic elements and step combinations, and Chinese People Exercise Third Standard Routine of Aerobic Gymnastics. In the course, students can get right posture, make beautiful attitude, and improve body's flexibility. Through practice, the ability of choreography will be enhanced to make a suitable routine for students themselves to achieve the goal of improving health and promoting vitality.

-End-

课程号 (Course Number) : 04130040

课程名称 (Course Title) : 健美操/Aerobics

开课院系 (School/Department) : 体育教研部/Section of Physical Culture

学分 (Credits) : 1

授课教师 (Faculty) : 黄育 副教授 Associate Professor

先修课程 (Prerequisites) : 无

中文简介:

一、 课程介绍

1. 健美操是一项融体操、舞蹈、音乐为一体，以有氧练习为基础，以健、力、美为主要特征，具有高度艺术性的体育项目。

本课程主要教授健美操基本动作（包括基本姿态动作，基本难度动作和基本步伐组合），全国健美操大众锻炼标准三级套路。通过练习，培养正确体态，塑造美的体态，提高身体协调性、灵活性，并能创编适合自己锻炼的套路动作，达到增进健康，激发活力，愉悦身心的目的。

2. 安全注意事项:

(1) 穿着合适的有利于运动的运动服、运动鞋

(2) 上课时要注意自身和同学的安全，如有胸闷、心慌、头晕等身体处于疲劳状态、请向老师提出，由老师根据情况安排。

二、 课程任务

1. 掌握健美操的基本技术和相关理论，培养学生终身体育的观念。

2. 掌握一项终身体育锻炼技能，并在实践中发展学生的全面素质。

英文简介 (Course Description) :

Course Introduction:

Based on aerobic exercise, Aerobic Gymnastics is an artistic sport which combines Gymnastic, dance and Music, and has features of power and beauty.

?? In the course, students could learn basic movements of Aerobic Gymnastics, including

basic posture, basic elements and step combinations, and Chinese People Exercise Third Standard Routine of Aerobic Gymnastics. In the course, students can get right posture, make beautiful attitude, and improve body's flexibility. Through practice, the ability of choreography will be enhanced to make a suitable routine for students themselves to achieve the goal of improving health and promoting vitality.

-End-

课程号 (Course Number) : 04130210

课程名称 (Course Title) : 棒、垒球/Baseball

开课院系 (School/Department) : 体育教研部/Section of Physical Culture

学分 (Credits) : 1

授课教师 (Faculty) : 焦晨曦 讲师 Lecturer

先修课程 (Prerequisites) : 无

中文简介:

一、课程介绍

棒、垒球运动是一项趣味性与竞技性很强的运动，是集跑、跳、投、击、传接于一起，也集智慧、勇敢、艺术、反应于一体的综合性体育项目；两队之间通过攻守交替、赛满局数并以累积得分多的队为获胜队的集体对抗性项目。棒、垒球运动可有效锻炼速度、力量、灵敏等身体素质，提高判断、随即应变和独立作战能力。垒球运动受棒球运动的影响，有“孪生姐妹”之称。本课程主要讲授棒、垒球基本知识、技术、战术和竞赛规则与裁判方法，学会如何欣赏高水平的棒、垒球比赛。

二、安全教育事项

在本课程学习中加强安全教育，身体有先天疾病的同学需向教师申请说明，征得教师同意后方可选课；不佩戴与运动无关的器物如钥匙、眼镜等，遵守课堂纪律听从教师指挥，严格按体育课堂常规要求上课，严抓课堂纪律，确保无伤害事故发生。

- 1、认真全面地做好准备和整理活动，养成身体各部位热身后再练习和运动后的放松 整理的习惯。活动时遵循渐进，速度有慢到快，动作幅度有小到大。
- 2、严禁在湿滑草坪、泥泞地上及有障碍物的场地上打球，以免受伤。
- 3、传球时站位不要过密；传球的人应向同一方向传球；不要在人群密集处传球；不同的距离要用不同的力量和手法传球。
- 4、接球时应注意接球的手形，手法要正确，判断要准确，反应要快，找准球的落点，避免球中身。
- 5、两人和多人接低滚球和高飞球时要叫喊“我的”，避免冲撞；面对太阳接高飞球时，应用手或手套遮光，看清球后再接球。
- 6、练习接球时注意力要集中，视角度放大，随时注意不同方向的来球。
- 7、拣球时，必须从背后绕过进入练习区域，同时告知练习者需要拣球，停止练习后，方可拣球。
- 8、击球时尽量避免投球中身和被自击球中身，严禁“甩棒”。
- 9、击球练习时，必须向同一方向击球，挥击时应该注意前后左右三米处没有人和障碍物或在场

内没有障碍物的地方击球。

10、跑垒时，击跑员跑一垒时要进限制道，要踩外侧垒垫。跑垒员应看清来球，避免被击中。

11、跑垒员和防守的接球者尽量避免冲撞，防守队员没有来球时，不准站在垒垫上，避免因阻挡犯规，发生冲撞而受伤。

12、进垒和得分时，防守队员应该让出垒垫，严禁封垒，避免与跑垒员冲撞。滑垒时要量力而行。

13、在场边休息的同学，应面对场内，注视场内的情况，避免被球击中。

三、课程任务

1. 培养学生锻炼身体的习惯和顽强的意志品质以及“健康第一”的思想意识。

2. 增进健康，增强体质，全面提高学生的身体及心理素质。

3. 要求学生掌握垒球运动基本的技战术，学习基本规则和裁判法。

4. 通过实践提高学生的技战术能力和身体素质，培养对垒球运动的兴趣。

英文简介 (Course Description) :

Softball is a sport that is fun and competitive. It includes a whole skill set of running, jumping, throwing, hitting and catching. It's a comprehensive sport that involves intelligent, brave, artistic and quickness. It's a team sports that two team taking turns on offense to score as many runs as possible in 7 innings. Softball trains students not only on their body of speed, power and quickness but also on their mind of decision making and teamwork. This course teaches students how to play and watch softball.

-End-

课程号 (Course Number) : 04130210

课程名称 (Course Title) : 棒、垒球/Baseball

开课院系 (School/Department) : 体育教研部/Section of Physical Culture

学分 (Credits) : 1

授课教师 (Faculty) : 焦晨曦 讲师 Lecturer

先修课程 (Prerequisites) : 无

中文简介:

一、课程介绍

棒、垒球运动是一项趣味性与竞技性很强的运动，是集跑、跳、投、击、传接于一起，也集智慧、勇敢、艺术、反应于一体的综合性体育项目；两队之间通过攻守交替、赛满局数并以累积得分多的队为获胜队的集体对抗性项目。棒、垒球运动可有效锻炼速度、力量、灵敏等身体素质，提高判断、随即应变和独立作战能力。垒球运动受棒球运动的影响，有“孪生姐妹”之称。本课程主要讲授棒、垒球基本知识、技术、战术和竞赛规则与裁判方法，学会如何欣赏高水平的棒、垒球比赛。

二、安全教育事项

在本课程学习中加强安全教育，身体有先天疾病的同学需向教师申请说明，征得教师同意后方可选课；不佩戴与运动无关的器物如钥匙、眼镜等，遵守课堂纪律听从教师指挥，严格按体育

课堂常规要求上课，严抓课堂纪律，确保无伤害事故发生。

- 1、认真全面地做好准备和整理活动，养成身体各部位热身后再练习和运动后的放松 整理的习惯。活动时要遵循渐进，速度有慢到快，动作幅度有小到大。
- 2、严禁在湿滑草坪、泥泞地上及有障碍物的场地上打球，以免受伤。
- 3、传球时站位不要过密；传球的人应向同一方向传球；不要在人群密集处传球；不同的距离要用不同的力量和手法传球。
- 4、接球时应注意接球的手形，手法要正确，判断要准确，反应要快，找准球的落点，避免球中身。
- 5、两人和多人接低滚球和高飞球时要叫喊“我的”，避免冲撞；面对太阳接高飞球时，应用手或手套遮光，看清球后再接球。
- 6、练习接球时注意力要集中，视角度放大，随时注意不同方向的来球。
- 7、拣球时，必须从背后绕过进入练习区域，同时告知练习者需要拣球，停止练习后，方可拣球。
- 8、击球时尽量避免投球中身和被自击球中身，严禁“甩棒”。
- 9、击球练习时，必须向同一方向击球，挥击时应该注意前后左右三米处没有人和障碍物或在场内没有障碍物的地方击球。
- 10、跑垒时，击跑员跑一垒时要进限制道，要踩外侧垒垫。跑垒员应看清来球，避免被击中。
- 11、跑垒员和防守的接球者尽量避免冲撞，防守队员没有来球时，不准站在垒垫上，避免因阻挡犯规，发生冲撞而受伤。
- 12、进垒和得分时，防守队员应该让出垒垫，严禁封垒，避免与跑垒员冲撞。滑垒时要量力而行。
- 13、在场边休息的同学，应面对场内，注视场内的情况，避免被球击中。

三、课程任务

1. 培养学生锻炼身体的习惯和顽强的意志品质以及“健康第一”的思想意识。
2. 增进健康，增强体质，全面提高学生的身体及心理素质。
3. 要求学生掌握垒球运动基本的技战术，学习基本规则和裁判法。
4. 通过实践提高学生的技战术能力和身体素质，培养对垒球运动的兴趣。

英文简介 (Course Description) :

Softball is a sport that is fun and competitive. It includes a whole skill set of running, jumping, throwing, hitting and catching. It's a comprehensive sport that involves intelligent, brave, artistic and quickness. It's a team sports that two team taking turns on offense to score as many runs as possible in 7 innings. Softball trains students not only on their body of speed, power and quickness but also on their mind of decision making and teamwork. This course teaches students how to play and watch softball.

-End-

课程号 (Course Number) : 04330881

课程名称 (Course Title) : 基本乐理与管弦乐基础/Basic Theory of Music and The Basics of Orchestral Music

开课院系 (School/Department) : 艺术学院/School of Arts

学分 (Credits) : 2

授课教师 (Faculty) : 马清 教授 Professor

先修课程 (Prerequisites) : 无

中文简介:

本课程系统地讲授音乐基本理论, 包括乐音体系、音律、记谱法、节奏与节拍、音程、和弦、调式、转调、乐曲的基本形式、初步的和声与复调, 以及近现代音乐理论; 注重理论联系实际, 在分析作品同时介绍管弦乐队及各类乐器的功能特点, 并结合识谱及简单电子钢琴弹奏。

英文简介 (Course Description) :

1. Musical Theory (west and Chinese): ton, rhythm, meter, scale, interval, major, minor, chord, form, harmony and polyphony, etc. 2. Orchestral Basis: analyze and appreciate symphony and piano/violin concerto. These composers include: S. Bach, Mozart, Beethoven, Chopin, A. Bruckner, J. Brahms, P. Tschaikowsky, G. Mahler, Rachmaninov, Shostakovich and S. Barber, etc.

-End-

课程号 (Course Number) : 04830145

课程名称 (Course Title) : 计算机组织与体系结构实习/Lab on Computer Organization and Architecture

开课院系 (School/Department) : 信息科学技术学院/School of Electronics Engineering and Computer Science

学分 (Credits) : 2

授课教师 (Faculty) : 刘先华 副教授 Associate Professor

先修课程 (Prerequisites) : 计算机系统导论、
计算机组织与体系结构 (也可以同时选择)

中文简介:

作为计算机组成与体系结构的配套实习课, 本课程的教学目标是将基本原理与科研实践相结合, 为学生提供搭建完整计算机系统模型的机会。并结合当前云计算、大数据等热点应用, 通过实践阐明结构设计对于计算性能的重要影响。

本课程由刘先华、孙广宇、刘锋、易江芳4位老师共同主持, 4位老师在系统结构方面具备坚实的理论基础和丰富的实战经验。

本课程的主要内容是:

- 1) 通过对当前热点应用程序的分析, 学习计算机性能的评价准则, 掌握评测程序的选择标准。
- 2) 基于开放式指令系统RISC-V, 学习并实现指令级模拟器、存储系统模拟、转移预测模拟等, 并在实践中加深对计算机系统结构基本概念和基础理论的认识和掌握。
- 3) 通过对主流技术、前沿热点的分析和介绍, 引发学生对于计算机体系结构、微结构的探

索兴趣，并就其对系统性能的影响有定性的认识。

英文简介 (Course Description) :

As the lab of compulsory major course, computer organization and architecture, our course aims to combine the basic principle of computer architecture with practice, and to supply students the chance of building a real complete computer system by themselves. Through hot topics of applications such as cloud computing and big data, students can know how architecture should affect the performance of computer system.

The course is managed by professor Liu Xianhua, Sun Guangyu, Liu Feng and Yi Jiangfang. They have been engaged in computer architecture several years with rich experience. The below is course outline:

- 1) Study the performance metrics through analysis of hot applications and grasp the choose guidelines of benchmark.
- 2) Study RISC-V open ISA and implement instruction simulator, cache simulator, branch prediction simulator and etc.
- 3) Introduce mainstream and hot topics in computer architecture

-End-

课程号 (Course Number) : 04830310

课程名称 (Course Title) : 人机交互/Human-Computer Interaction(HCI)

开课院系 (School/Department) : 信息科学技术学院/School of Electronics Engineering and Computer Science

学分 (Credits) : 2

授课教师 (Faculty) : 汪国平 教授 Professor

先修课程 (Prerequisites) : 高等数学

中文简介:

人机交互技术是研究人与计算机之间相互影响和反馈的技术，是当前信息技术发展中重要的热点方向之一，人机交互技术因计算机技术快速发展而受到广泛关注，是计算机专业的核心专业课程。2022年美国国防部发布的《竞争时代的技术愿景》三大类14项关键技术领域，美国NSTC于2020年和2022年连续两次发布美国国家关键和新兴技术领域清单，都包含人机交互技术领域。人机交互技术涵盖应用范围广、涉及学科领域多，是计算机、心理与认知、工业工程与机械设计等学科领域的重要研究方向。尤其是当前“以人为中心”的新一代计算技术的发展，人机交互技术的地位尤为突出，以人机交互技术作为核心内容的人机混合智能也是当前人工智能的重要发展方向。

本课程要求了解人机交互技术当前的主要发展状况和发展趋势，掌握人机交互技术的主要概念、方法和技术实现思路，了解人机交互技术主要应用现状和行业发展地位，了解人机交互技术对信息行业发展的重要作用。

英文简介 (Course Description) :

Human computer interaction technology is a technology to study the interaction and feedback between human and computer. It is one of the important hot directions in the development of information technology. Human computer interaction technology has attracted extensive attention due to the rapid development of computer technology. It is the core professional course of computer specialty. In 2022, the U.S. Department of defense released 14 key technology areas in three categories of technology vision in the competitive era. The U.S. NSTC released the list of U.S. national key and emerging technology areas twice in succession in 2020 and 2022, both of which include the field of human-computer interaction technology. Human computer interaction technology covers a wide range of applications and involves many disciplines. It is an important research direction in the fields of computer, psychology and cognition, industrial engineering and mechanical design. Especially with the development of the new generation of "human-centered" computing technology, the status of human-computer interaction technology is particularly prominent. Human-computer hybrid intelligence with human-computer interaction technology as the core content is also an important development direction of artificial intelligence.

This course requires to understand the current main development status and development trend of human-computer interaction technology for undergraduate students, master the main concepts, methods and technical implementation ideas of human-computer interaction technology, and understand the main application status and industry development status of human-computer interaction technology, and understand the important role of human-computer interaction technology in the development of information industry.

-End-

课程号 (Course Number) : 04833310

课程名称 (Course Title) : 集成电路逻辑综合实验/logic synthesis labs

开课院系 (School/Department) : 信息科学技术学院/School of Electronics Engineering and Computer Science

学分 (Credits) : 2

授课教师 (Faculty) : 贾嵩 副教授 Associate Professor

先修课程 (Prerequisites) : 数字逻辑电路

中文简介:

逻辑综合是数字集成电路设计优化的重要手段,逻辑综合通过RTL源代码转换成门级网表的过程实现数字设计向工艺库的映射。

在综合过程中,优化进程完成库单元的配置组合,使电路能最好地满足设计的功能、时序和面积的要求。逻辑综合为约束驱动(constraint driven),给定的约束条件是综合的目标。约束一般是在对整个系统进行时序分析得到的,综合工具会对电路进行优化以满足约束的要求。

本课程安排10个实验,通过实验内容,学习掌握逻辑综合的基本知识和实际操作。通过课程学习,学生可以掌握逻辑综合的基本方法、工具使用、优化技巧等知识。

本课程的先修课为数字逻辑电路。

本课程为实验课，上课时间安排在两周，一共10次课，每次上机4小时。

英文简介 (Course Description) :

Logic synthesis is an important method to design a digital integrated circuits. The process will translate the RTL code to gate level netlist and map the design to technology library.

Logic synthesis is the transformation of an idea into a manufacturable device to carry out an intend function. This involves three main steps:

*Design is broken down into sets of timing paths

*The delay of each path is calculated

*All path delays are checked to see if timing constraints have been met.

There are ten labs in the class. Students will learn the process and skill of logic synthesis.

The students are expected to have studied "logic circuits" before.

-End-

课程号 (Course Number) : 04833720

课程名称 (Course Title) : 基于IP的SOC设计实验/SOC design labs

开课院系 (School/Department) : 信息科学技术学院/School of Electronics Engineering and Computer Science

学分 (Credits) : 2

授课教师 (Faculty) : 贾嵩 副教授 Associate Professor

先修课程 (Prerequisites) : 数字逻辑电路, 数字集成电路设计

中文简介:

集成电路的设计从单一功能的专用功能ASIC转变为一个复杂系统，系统级芯片设计 (SoC) 是基于IP的设计方法，Intellectual Property也称作Virtual Component, Macro等，是SoC中可以复用的电路模块。本课程通过相关实验内容，学习掌握基于IP的 SoC设计的基本知识和实际操作。

数字集成电路设计包括自顶向下的设计方法和自底向上的设计方法，本课程中将首先学习自底向上的设计方法，利用定制方法完成一个IP硬核；然后学习自顶向下的设计方法，利用半定制流程完成系统设计；最后通过IP的集成完成整个设计和版图验证。

通过课程学习，学生可以掌握集成电路的定制和半定制设计方法、IP建模、SoC设计方法等知识。

英文简介 (Course Description) :

Digital IC design will design a complicated system instead of just an application specific circuit. System on Chip(SOC) design is a process based on Intellectual Property(IPs). IP is also referred as Virtual Component or Macro. They are the circuit

blocks reused in system on chips.

In the class, students will learn the basic methods and knowledge by different labs. Methodologies of IC design will be understood in the class. The top-down and bottom-up methodologies are popular for digital IC design.

In the class, an IP hardcore will be designed based on bottom-up method first. Then the IP will be integrated in the system design based on top-down method. Thus students can learn different methods and understand SoC design process.

-End-

课程号 (Course Number) : 04833730

课程名称 (Course Title) : 集成电路的物理设计实验/Place and route labs

开课院系 (School/Department) : 信息科学技术学院/School of Electronics Engineering and Computer Science

学分 (Credits) : 2

授课教师 (Faculty) : 贾嵩 副教授 Associate Professor

先修课程 (Prerequisites) : 数字逻辑电路

中文简介:

物理设计是数字集成电路设计实现过程，通常称为布局布线(Place-and-Route)，通过将门级网表进行布局布线等过程，实现数字设计由门级向物理版图的映射。随着集成电路工艺的不断发展，深亚微米集成电路物理设计给设计者提出了新的挑战，比如在时序收敛、电压降、串扰分析等方面带来设计挑战。

集成电路的物理设计的输入文件是逻辑综合之后的门级网表，经过布图规划、布局、时钟树综合、布线、版图检查等过程，输出用于半导体加工的版图数据。

布图规划阶段：布图规划主要包括芯片的大小 (area)、输入输出I/O单元的规划、宏模块的规划和电源规划等；

布局阶段：布局的任务主要是对标准单元和宏模块的布局。为了更好地实现时序收敛需要采用时序驱动的布局方式。此外，还包括对版图进行拥塞分析；

时钟树综合：时钟网络在所有信号网络中负载最大、走线最长、要求最苛刻，因此时钟树综合的质量直接影响芯片的性能。时钟树综合包括设置、综合、优化等过程；

布线阶段：布局和时钟树综合完成后，就需要各个模块和单元通过具体的互连线连接起来，完成所有信号的互联，从而才可实现芯片的功能。具体的实施包括全局布线、详细布线和布线修正等部分，布线的效果依赖于布局的方案以及工具本身的算法。

本课程安排10个实验，通过实验内容，学习掌握集成电路物理设计的基本知识和实际操作。通过课程学习，学生可以掌握布局布线的基本方法、工具使用、优化技巧等知识。

本课程的先修课为数字逻辑电路。

本课程为实验课，上课时间安排在两周，一共10次课，每次上机4小时。

英文简介 (Course Description) :

Physical design is the implementation pro

cess for digital ICs. It is also referred as Place-and-Route. The design process will map the gate-level netlist to layout. As the semiconductor scales down, new challenges, such as timing closure, IR drop and crosstalks arise for physical designs.

In physical design, the netlists are put in and the design is processed by floorplanning, placing, clock-tree synthesizing, routing. The layout data is outputted for fabrication.

Floorplanning: The process will handle the area, the position of IOs and macros and the planning of power rails;

Placement: The process will place the standard cells and macros. The process is often driven by timing to meet timing closure. Congestion is also analyzed.

Clock-tree synthesis: The clock network is the most loaded and longest net in the design. The network should be optimized by synthesis for better timing.

Routing: All the cells and macros will be connected in the process by global routing, detail routing and repair.

The class will arrange ten labs for students to understand the physical design knowledge. Students will learn the basic methods, the tool application and skills for place-and-route.

The Digital Circuit is suggested as a pre-arranged class for the class.

The class will be taught in labs in 2 weeks. There are four class hours every day.

-End-

课程号 (Course Number) : 04834440

课程名称 (Course Title) : 智能计算系统/AI Computing Systems

开课院系 (School/Department) : 信息科学技术学院/School of Electronics Engineering and Computer Science

学分 (Credits) : 2

授课教师 (Faculty) : 王源 教授 Professor

先修课程 (Prerequisites) : 人工智能概论、计算机组成原理

中文简介:

智能计算系统是智能的核心物质载体，每年全球要制造数以十亿计的智能计算系统（包括智能手机、智能服务器、智能可穿戴设备等），需要大量的智能计算系统的设计者和开发者。智能计算系统人才的培养直接关系到我国智能产业的核心竞争力。因此，对智能计算系统的认识和理解是智能时代计算机类专业学生培养方案中不可或缺的重要组成部分，是计算机类专业学生

的核心竞争力。本课程采用“应用驱动，全栈贯通”的思想，以一个图像迁移风格的驱动范例带动，重点围绕智能计算系统的设计理论、方法、关键技术等展开讨论，从基本概念开始，由浅入深帮助学生建立智能计算系统设计及应用的知识体系，培养智能时代急需的芯片设计、软件开发、算法研发等各个层次的人才。

英文简介 (Course Description) :

This course is a professional popularization course related to computer, electronics, and microelectronics, open to undergraduates majoring in IoT engineering and computer science and technology. It aims to train students to develop comprehensive understanding and practical application skills towards the complete software and hardware technology stack of intelligent computing systems (including basic intelligent algorithms, intelligent computing programming framework, intelligent computing programming language, intelligent chip architecture, etc.). This course adopts the idea of application-driven and focuses on the topics about design theories, methods, and key technologies of intelligent computers, starting from the basic concepts, to help students build a solid foundation of knowledge system for intelligent computer design and application from the shallower to the deeper and to cultivate different levels of talents that are urgently needed in the intelligent era in the fields of the chip design, software development, Algorithm development, etc.

-End-

课程号 (Course Number) : 04834500

课程名称 (Course Title) : 量子信息技术概论/Introduction to Quantum Information Technology

开课院系 (School/Department) : 信息科学技术学院/School of Electronics Engineering and Computer Science

学分 (Credits) : 2

授课教师 (Faculty) : 吴腾 助理教授

先修课程 (Prerequisites) : 本课程主要面向信科、物理、元培等其他相近专业低年级本科生，无特别先修课程要求。如具备线性代数、原子物理、光学、量子力学等相关课程的初步知识，则更好。

中文简介:

本课程主要讲授与量子信息技术有关的基础知识、发展现状和未来趋势，以期拓展学生在量子信息技术领域的知识面，培养学生对量子信息的兴趣。本课程采用专题讲座式教学方式，授课形式以幻灯片为主、辅以一定的黑板板书。本课程包括 16 个专题讲座，内容涵盖：量子信息的概念和历史、与量子信息技术有关的基本概念、量子计算、量子保密通信、量子精密测量、核磁共振等前沿量子信息技术的发展现状及未来趋势。

英文简介 (Course Description) :

This course introduces the basics, the current status and the future of the quantum information technology, and aims at broadening the students' knowledge and cultivating their interests in this field. The course consists of 16 talks, the topics of which include but not limited to the history of the quantum information technology, some basic conceptions such as wave-particle duality, entanglement, atomic structure, and the current status and future of quantum computing, quantum communication, quantum precision measurement and some other typical and important quantum information technologies.

-End-

课程号 (Course Number) : 04834710

课程名称 (Course Title) : 自旋与超导量子技术导论/Introduction to Spintronic and Superconducting Quantum Technology

开课院系 (School/Department) : 信息科学技术学院/School of Electronics Engineering and Computer Science

学分 (Credits) : 2

授课教师 (Faculty) : 王润声 副教授 Associate Professor

先修课程 (Prerequisites) : 本课程主要面向信息科学（电子、微电子/集成电路、计算机、人工智能等）、物理、材料等其他相近专业二三年级本科生，无特别先修课程要求。但需要具备一点编程的基本知识（如Python/Matlab/Mathematica等）。如具备线性代数、量子物理等相关课程的初步知识，则更好。

中文简介:

本课程介绍自旋电子学和量子信息科学中的基本概念、器件技术、电路及算法应用。该课程包括课堂讲授和有关动手学习仿真工具的补充教程。希望学生通过动手作业（使用仿真工具）展示运用基本原理理解自旋电子学和超导量子技术的能力。本课程将邀请香港科技大学邵启明教授联合讲授。

英文简介 (Course Description) :

This course introduces concepts, devices, and applications in spin electronics and quantum information science. The course includes lectures and supplemental tutorials for hands-on learning tools. Students are expected to demonstrate the capability of applying fundamental principles to understand spintronic and superconducting quantum devices through hands-on homework projects. The course will be co-instructed by Prof. Qiming Shao of Hong Kong University of Science and Technology.

-End-

课程号 (Course Number) : 06239083

课程名称 (Course Title) : 经济学社会实践/Field Work in Economic Study
开课院系 (School/Department) : 国家发展研究院/National School of Development
学分 (Credits) : 2
授课教师 (Faculty) : 徐晋涛 教授 Professor, 蒋少翔 讲师 Lecturer

先修课程 (Prerequisites) : 经济学原理

中文简介:

本课程以教师指导学生进行企业参访和实习, 田野调研等多种形式开展。引导学生走出校门、接触社会、了解国情与民生, 使理论与实践相结合, 让学生在企业和乡间走访过程中, 了解社会状况, 指导学生利用调查实践中的数据和信息进行科学研究, 撰写研究论文, 并加深对科学研究成果的理解。此外, 还可以培养学生增强大学生服务社会意识。

英文简介 (Course Description) :

This course is carried out in various forms, such as teachers guiding students to conduct enterprise visits and internships, field research, etc. Guide students to go out of school, get in touch with society, understand national conditions and people's livelihood, combine theory and practice, let students understand social conditions during company and rural visits, guide students to use data and information in survey practice for scientific research and write research Papers, and deepen the understanding of scientific research results. In addition, students can be trained to enhance their sense of serving society.

-End-

课程号 (Course Number) : 06239139
课程名称 (Course Title) : 量化金融专题/Topics in Quantitative Finance
开课院系 (School/Department) : 国家发展研究院/National School of Development
学分 (Credits) : 2
授课教师 (Faculty) : Tai 待定

先修课程 (Prerequisites) : 微积分, 线性代数, 概率论, 随机过程

中文简介:

本课程旨在介绍及探讨与量化金融相关的数学, 经济及物理模型。课题着重于投资组合的建构, 波动率估计与建模, 利率相关产品与建模, 以及最佳执行策略。基于应用所需, 本课程前一小段将着重于随机控制理论与统计学习相关知识的简介。学生修完成课程应具备量化金融模型的基础知识及其与应用相关的技术。

英文简介 (Course Description) :

The course aims at introducing quantitative models in finance from economics, mathematics, and physics viewpoints. Financial problems covered in the course include

portfolio management, volatility estimation and modeling, optimal order execution under price impact, and interest rate related products and their modeling. In order to prepare the student into the core, part of the course offers a crash course on stochastic control theory in discrete time and the theory of statistical learning. Upon completion, students are expected to understand the quantitative models covered in the course and possess basic skills to implement the models.

-End-

课程号 (Course Number) : 06733020

课程名称 (Course Title) : 游戏化创新思维/The innovation thinking of Gamification

开课院系 (School/Department) : 教育学院/Graduate School of Education

学分 (Credits) : 2

授课教师 (Faculty) : 尚俊杰 长聘副教授

先修课程 (Prerequisites) : 如果学过游戏设计等相关课程, 会有帮助, 但不是必需的。

中文简介:

所谓游戏化 (Gamification), 指的是将游戏或游戏元素、游戏设计和游戏理念应用到一些非游戏情境中。比如在市场营销中应用游戏或游戏理念。游戏化目前在教育培训、产品设计、人力资源管理、市场营销等领域都有广阔的应用, 比如微信红包等案例。

游戏化其实有很长的研究历史, 但是2010年在商业领域流行开以后, 引起社会广泛关注。沃顿商学院的凯文·韦巴赫也在Coursera上开设了《游戏化》课程, 非常受欢迎。

本课程负责人尚俊杰老师长期研究游戏化学习, 对于游戏化有丰富的研究经验, 在之前面向研究生、本科生开设的课程中也涉及到了相关内容。本次希望引导同学进行更加深入的探讨, 将采用项目学习方式, 通过讲授、案例分析、小组讨论和项目设计等, 希望让同学们全面了解游戏化的概念、内涵、应用领域、应用方法和策略等内容, 同时也希望能够借此促进当前的创新创业教育。

英文简介 (Course Description) :

Gamification is the application of game, game-design elements and game principles in non-game contexts. Gamification in marketing is a typical case to apply game and game concepts in business. Nowadays, gamification has been widely applied in educational training, product design, human resource management and marketing, such as the Red Envelop in Wechat.

Gamification has a very long history, but it attracted great attention after 2010 when gamification became popular in business. Kevin Werbach from Wharton School provided a course Gamification in Coursera, which has achieved a huge success.

Prof. Junjie Shang, the leading lecturer of this course, has continuously been devoted to the study of game-based learning, and based on his rich study experiences, Prof. Shang has introduced the concept of gamification during the courses for undergraduate and graduate students. This course will encourage students get engaged and make in-depth discussions in the project-based learning through lectures, case study, group work and product design, and expects students to develop a deep understanding of the concepts, meaning, application and strategies of gamification, which will also contribute to the innovation education.

-End-

课程号 (Course Number) : 06734030

课程名称 (Course Title) : 大学经历与学生发展/College Experience and Student Development

开课院系 (School/Department) : 教育学院/Graduate School of Education

学分 (Credits) : 2

授课教师 (Faculty) : 鲍威 长聘副教授

先修课程 (Prerequisites) : 无

中文简介:

本课程为全校本科学生（尤以低年级学生为主体）设计开设。本课程分为3个模块[1]高等教育的发展与演变、[2]高等教育影响力与学生发展的相关理论及其实证研究、[3]学生经历成功案例分析与自身规划。课程首先通过对高等教育发展历程及其功能、高等教育影响力与学生发展相关理论和实证研究的学习，为其科学规划设计自身大学学习生活经历，提供基本的理论思考视角和框架。在此基础上，课程将通过小组调研，发现校园内各类有效教学资源，收集身边的学生经历“成功案例”，运用相关理论分析案例背后的影响机制，并为学生规划自身未来校园经历提供重要借鉴和启发。

英文简介 (Course Description) :

COURSE DESCRIPTION:

This course is designed to provide undergraduate students. It is divided into three modules: [1] higher education history and its functions; [2] the theory and empirical research on the college impact and student development; [3] student success case study and college experience design. Students will have the opportunity to study the various theorists and to apply their theories to design their own campus experience through reading, class discussion, papers, and other special projects.

-End-

课程号 (Course Number) : 12632140

课程名称 (Course Title) : 生态学控制实验野外实习/Field Experiments in Global Change

Ecology

开课院系 (School/Department) : 城市与环境学院/College of Urban and Environmental Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 贺金生 教授 Professor

先修课程 (Prerequisites) : 植物学

中文简介:

本课程为实践类课程。

在《普通生态学I, II》基础理论学习的基础上,通过野外实习,掌握生态学实验设计的基本原理,实地了解国际上先进的生态学控制实验设施及运行,实习野外仪器的操作、实验数据的收集过程。通过野外的实习、讨论,深度参与到生态学科学实验的主要过程。

英文简介 (Course Description) :

This is a practical field course. After the study of "General Ecology I", and "General Ecology II", this course provides students the opportunity to learn the basic principles of design of ecological experiments, to understand and practice the operation processes of advanced ecological field experimental facilities, practice field instruments, data collection process. Through field practice and discussion, they will be deeply involved in the main process of ecological experiments.

-End-

课程号 (Course Number) : 12633070

课程名称 (Course Title) : 自然地理综合实习/Integrated Practice of Physical Geography

开课院系 (School/Department) : 城市与环境学院/College of Urban and Environmental Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 蒙吉军 副教授 Associate Professor

先修课程 (Prerequisites) : 无

中文简介:

自然地理综合实习选择黄河下游的黄河三角洲和中游的郑州-开封段,开展大尺度空间分异规律的实习及局地尺度自然综合体的实习,从流域的角度,通过水分循环将自然地理环境中格局与过程结合起来,建设从点到面的、综合性野外实习基地,为学生开展野外自然地理实践提供平台。通过实习,使学生得到综合的自然地理野外训练。实习内容包括地质、地貌、气候、水文、土壤、植被、景观及土地利用方面,在以往部门地理(地貌、土壤、植被)实习的基础上,分析自然地理各要素之间的关系,建立自然地理环境整体性的思维,加深对综合自然地理课堂教学内容的理解,加强理论与实践的结合,培养学生的地理思维及分析问题、解决问题的能力,

为学生从事科研工作奠定良好的野外工作能力。

英文简介 (Course Description) :

Comprehensive practice of physical geography is carried out in the delta in lower Yellow River and part of middle Yellow River from Zhengzhou to Kaifeng to illustrate the rule of spatial differentiation in large scales and the natural complex in local scales. From the perspective of river basin, it combines the physical geography pattern and process by means of hydrologic cycle, constructs a comprehensive field practice base from point to surface, aiming at providing a comprehensive physical geography field training for students. This course contains aspects such as geology, topography, climate, hydrology, soil, vegetation, landscape and land use, analyzes the relationship between the various physical geography elements on the previous basis of sectorial geography. Through the course, students can get an integrated thinking of natural geographical environment, understand the content of integrated physical geography taught in class more deeply, strengthen the combination of theory with practice, and form a geographic thinking as well as the ability to analyze and solve problems, also can develop good field work ability for future scientific research.

-End-

课程号 (Course Number) : 12633130

课程名称 (Course Title) : 陆面过程模型和植被遥感实习/practice of land surface model application and vegetation remote sensing

开课院系 (School/Department) : 城市与环境学院/College of Urban and Environmental Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 王旭辉 助理教授

先修课程 (Prerequisites) : 建议选修本课程的学生上个学年(近期)选修过“地表过程模拟和监测”，“遥感原理与应用”和“古气候与古环境”。

中文简介:

陆面过程模型和植被遥感实习是为城市与环境学院自然地理专业或其他对陆面过程模型和植被遥感实践操作感兴趣的本科生和研究生开设的实习课程。课程主要包括三部分的核心内容：(1) 陆面过程模型与遥感软件的运行环境，包括学习操作系统和作业调度系统的使用、认识编译和连接、学习使用脚本与模型交互 (2) 陆面过程模型(ORCHIDEE)的应用实践，包括学习ORCHIDEE模型的基本构架、光合作用和土壤温度模块的基本原理、在站点和区域尺度上运转ORCHIDEE模型 (3) 植被遥感的应用实践，包括学习植被遥感数据处理的基本流程、认识植被光能利用率模型、在区域尺度上分析植被光合作用的变化及其驱动因素。

英文简介 (Course Description) :

The “Practice of land surface model and vegetation remote sensing” is the practice

course designed for undergraduate and postgraduate students majoring in physical geography or students interested in working on land surface models and vegetation remote sensing. There are three core components of the course: 1) the environment of operating land surface model and remote sensing, including the operation system and the job distribution system; 2) the practice of the land surface model (ORCHIDEE), including the model structure, the formulation of photosynthesis and soil temperature, and the guidance on running site and regional simulations; 3) application of vegetation remote sensing, including the working flow of remote sensing data processing, the formulation of light use efficiency based photosynthesis model, and the guidance on analyzing spatio-temporal variations in vegetation photosynthesis.

-End-

课程号 (Course Number) : 12634080

课程名称 (Course Title): 人文地理专业综合实习/Comprehensive Practice of Human Geography

开课院系 (School/Department) : 城市与环境学院/College of Urban and Environmental Sciences

学分 (Credits) : 1

授课教师 (Faculty) : 曹广忠 教授 Professor, 冯长春 教授 Professor

先修课程 (Prerequisites) : 人文地理, 经济地理学, 城市地理学, 产业地理学, 城市社会学

中文简介:

本课程面向人文地理与城乡规划专业已完成专业基础课学习和部分专业课学习的学生, 属于专业综合实习类课程。课程集中7-10天时间考察城乡发展中的资源利用、典型业态、城乡聚落发展中的人文地理现象。学生在综合了解城乡区域空间发展的基础上, 选择典型要素或典型地域发展作为研究对象, 独立完成实习报告。

英文简介 (Course Description) :

This course is taught to the senior students (the end of year 2). It is a core course for human and urban and rural planning major. The course lasts 60 teaching hours mainly in 7-10 days with field work. The field investigations include urban and rural planning and urban development, non-agriculture and agriculture industries development, the use and protection of resources during regional development, the distribution and development of town and villages under the contest of urbanization, etc. Each student should submit a practice report combined with field investigation and independent research.

-End-

课程号 (Course Number) : 12634090

课程名称 (Course Title) : 人文地理综合社会实践实习/Social and Professional Practice of Human Geography

开课院系 (School/Department) : 城市与环境学院/College of Urban and Environmental Sciences

学分 (Credits) : 1

授课教师 (Faculty) : 曹广忠 教授 Professor

先修课程 (Prerequisites) : 人文地理, 经济地理系, 城市地理学, 产业地理学, 计量地理与规划系统工程学, 区域分析与区域规划,

中文简介:

本课程面向人文地理与城乡规划专业高年级学生, 属于综合实践实习类课程。课程以在暑期开展为主, 学生分组参与老师主持的理论和实践类科研项目, 参与项目整体讨论, 并承担具体的科研工作任务。通过实践实习, 综合了解城乡发展实践中的地理现象和空间规律, 了解运用人文地理理论方法参与社会服务的基本程序和方法。

英文简介 (Course Description) :

This course is taught to the senior students (the end of year 3). It is a core course for human and urban and rural planning major. The course lasts about two months for every students by attending theory or practice projects about urban and rural development managed by teacher. Students should attend the discussion about the project and complete some specific task of the project. Students should learn to use the theory and methodology of Human Geography to analyze the issues in urban and rural development practice.

-End-

课程号 (Course Number) : 12635390

课程名称 (Course Title) : 美术实习/Practice of Fine Arts

开课院系 (School/Department) : 城市与环境学院/College of Urban and Environmental Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 沈文权 讲师 Lecturer

先修课程 (Prerequisites) : 美术: 素描与色彩

中文简介:

美术实习目的在于培养城乡规划专业学生认识和表现城市空间的能力, 提高造型艺术修养, 锻炼手绘技能。实习内容以城市建筑和风景园林写生为主。实习地点在北京市城区和近郊。

英文简介 (Course Description) :

This course of art practice is set up for the major of urban and rural planning. The

purpose is to cultivate the ability of students to cognize and express urban space, exercise hand-painted skills and improve formative art cultivation. The practice mainly focuses on urban, architecture and landscape painting.

The practice sites are generally in the urban and suburban areas of Beijing.

-End-

课程号 (Course Number) : 12639010

课程名称 (Course Title) : 综合社会实践实习/Comprehensive Social Practice Practicum

开课院系 (School/Department) : 城市与环境学院/College of Urban and Environmental Sciences

学分 (Credits) : 1

授课教师 (Faculty) : 林坚 教授 Professor

先修课程 (Prerequisites) : 本科三年级结束后的城市规划专业学生

中文简介:

城市规划是理论与实践紧密结合的学科, 综合社会实践实习课, 要求学生直接参与教师的具体研究或实践的课题工作, 使学生在本专业相关实践中运用所学的理论知识, 加深课堂知识的理解, 初步掌握相关研究和实践的调研、资料查阅、数据分析、图件绘制等基本方法。

该课程由城市与区域规划系、城市与经济地理系全体教师共同承担, 各位老师根据自己的科研项目, 安排实习同学的实习内容。两系教师的研究方向涵盖了人文地理和城市规划的各相关领域。

英文简介 (Course Description) :

Urban planning is a subject which connects theory with practice closely. This course, Comprehensive Social Practice Practicum, requires students to participate in the specific research or projects of their teachers directly so that the students will use their professional knowledge in practice. This course will help students understand the knowledge in lecture deeply and have initial grasp of the basic methods of research and practice on investigation, data collection, data analysis, map drawing, etc.

-End-

课程号 (Course Number) : 12739040

课程名称 (Course Title) : 环境综合实习一/Environmental Integrated Fieldwork One

开课院系 (School/Department) : 环境科学与工程学院/College of Environmental Sciences and Engineering

学分 (Credits) : 1

授课教师 (Faculty) : 刘兆荣 副教授 Associate Professor, 赵志杰 副教授 Associate Professor, 刘文 助理教授

先修课程 (Prerequisites) : 实习环节安排在《环境问题》课程之后, 学生对可持续发展的环境保护概念有了初步认知。

中文简介:

本课程为认知实习, 是为环境科学与工程专业本科生安排的首次系统的、综合性的实践环节。本实习环节安排在《环境问题》课程之后, 学生对可持续发展的环境保护概念有了初步认知。通过现场参观、访谈等环节, 引导学生在实践中了解环境问题的由来和针对环境问题所采取的措施, 认识人类活动与环境变迁的相互影响、相互依存的关系, 体会可持续发展的重要性和必要性。通过认识环境保护工作的重要性, 加深对本专业的了解, 增强学习兴趣。

本实习环节立足东南沿海高新区, 以珠海为中心建立实习基地, 以环境保护、生态多样性保护、城市可持续发展与环境保护为主线, 组织学生对自然生态环境和城市环境进行全方位的考察, 包括河流、湖泊、水库等水体环境, 从给水到排水的整体流程, 从大气环境背景到城市区域空气环境的质量监测, 从废物产生到储运、处置的全过程监督, 从政府监管到企业参与环境保护, 从城乡建设到经济与生态共赢, 实地了解环境保护、环境监测、污染处置、城乡建设工作的意义和价值。

实习内容以主题线路串连, 实习过程以观察、讲解、访谈和讨论方式展开, 本着“且行且思且学”的原则, 学生在考察中“看到”环境问题所在, “思考”环境问题发生的根由和解决之道, “学习”其中包含的环境科学与工程的专业知识, 体会环境保护和可持续发展的重要性和必要性。

英文简介 (Course Description) :

This course is the cognitive practice. It is the first systematic, integrated practice session for the environmental science and engineering undergraduates.

The practice sessions scheduled after "environmental issues" course. Students had got the initial concept of sustainable development awareness. Through site visits, interviews and other sectors, this course should guide students to understand the origin and measures taken for environmental issues, environmental problems in practice, understanding the interaction and interdependence between human activities and environmental changes, and appreciate the importance of sustainable development necessity. By recognizing the importance of environmental protection, the students should get a better understanding of the profession and enhance their interest in learning.

The practice session is based on the southeast coast of Hi-tech Zone, and should establish practice bases around Zhuhai. Along the main line with environmental protection, biodiversity protection and sustainable urban development and environmental protection, the students should be organized to inspect fully on the natural environment and the urban environment, which include the water environment of rivers, lakes, reservoirs, etc. From the whole process of the water to the drain, from the background atmosphere to the ambient air quality monitoring in urban areas, from the entire supervise process of waste generation to storage and disposal, from government regulation to business participation in environmental protection, from the urban construction to economic and ecological co-benefit, the students should learn more meaning and value about environmental protection, environmental monitoring,

pollution disposal, urban and rural construction work.

Internship contents are strung up with theme line series. The fieldwork process include observition, explanation, interview and discussion Based on the principle of "thinking and learning while walking", the students "see" the environment problem in the study of the fieldwork, and "think" root causes and solutions of the environmental issues, and "learn" environmental science and engineering expertise which are included inside, and experience the importance and necessity of environmental protection and sustainable development.

-End-

课程号 (Course Number) : 12739060

课程名称 (Course Title) : 环境综合实习二/Environmental Integrated Fieldwork Two

开课院系 (School/Department) : 环境科学与工程学院/College of Environmental Sciences and Engineering

学分 (Credits) : 1

授课教师 (Faculty) : 刘兆荣 副教授 Associate Professor, 许伟光 工程师 Engineer, 王婷 高级工程师 Senior Engineering, 梁宝生 讲师 Lecturer

先修课程 (Prerequisites) : 环境监测, 环境监测实验

中文简介:

本课程定位为野外环境监测操作实习, 培养学生进行环境化学问题研究的思路和方法, 理解和掌握环境污染的产生、变化过程的监测、分析手段和数据分析方法, 加深对环境科学研究和环境保护的认识, 提高学生分析问题和解决问题的能力。

本课程设计大气化学与气候监测和水土生环境交互监测两大板块的实践内容, 涵盖大气、水体、土壤和生物环境等环境参数的变迁研究, 涉及区域背景大气环境质量研究原理及手段、仪器操作、数据分析, 植被生态及天然源VOCs的排放研究原理及手段、仪器操作、数据分析, 湖泊水质参数检测原理及手段、仪器操作、数据分析, 土壤环境参数检测原理及手段、仪器操作、数据分析, 湖泊生态变迁机制及过程研究。

本课程以北京大学塞罕坝环境与生态实习基地为中心, 对周边的湖泊、林地、草原等开展广泛的环境研究、监测、采样活动。

通过本课程的学习力图培养学生可持续发展的环境保护理念, 加强环境参数的监测技术实地操作能力培训, 培养科研能力, 增强和加深对于环境科学与工程学科的学习兴趣, 培养学生理论联系实际的能力, 引导学生正确的研究思路, 学习规范性实习报告的编写能力。

英文简介 (Course Description) :

The course focuses on the outdoor environmental monitoring operation practice. In this course the undergraduates are cultivated in the ideas and methods of the study on environmental chemical problems. They could understand and grasp the monitoring, analysis and data analysis methods of the pollutants and the changing process during the environmental pollution, so that they could understand deeper environmental science

and environmental protection. This course could improve the students' ability to analyze and solve problems.

This course designs the practice of the two plates, atmospheric chemistry and climate monitoring and interaction of soil and water environmental monitoring. The content covers the change of the environment parameters of the atmosphere, water, soil and biological environment. These contents involve the principle and method for study on regional background of atmospheric environmental quality, instrument operation and data analysis, the vegetation ecology and the natural source of VOCs emissions and the study method, instrument operation and data analysis, testing principle and method, water quality parameters of lake, instrument operation and data analysis, the soil environment parameter detection principle and the method, instrument operation and data analysis, research on lake ecological change mechanism and process.

This course carried out around Peking University Saihanba Environmental and Ecological Practice Base. The extensive environmental research, monitoring, sampling activities will be hold around the lake, forestland and grassland.

Through the study of this course it is to cultivate students' concept of sustainable development of environmental protection, strengthen their environmental parameters monitoring technology field operating skills, train their scientific research ability, enhance and deepen their environmental science and engineering discipline study interest, cultivate students' ability to integrate theory with practice, and guide the student to correct research thought and normative writing skills of study practice report.

-End-

课程号 (Course Number) : 18730010

课程名称 (Course Title) : 社会调查实务/Social Surveys Practices

开课院系 (School/Department) : 中国社会科学调查中心

学分 (Credits) : 2

授课教师 (Faculty) : 丁华 研究员 Research Fellow, 孙妍 副研究员 Associate Research Fellow, 吴琼 副研究员 Associate Research Fellow, 陈欣欣 研究员 Research Fellow, 吕萍 副研究员 Associate Research Fellow

先修课程 (Prerequisites) : 《社会调查方法》

中文简介:

本门课程系统讲授社会调查的问卷设计、计算机辅助调查方法、调查执行流程、质量控制、数据库的建立与清理、抽样设计和权数计算的理论方法及其评估。本课程用一些调查案例展示如何进行科学严谨的社会调查, 并通过实际调查中的各个环节对获取高质量的社会调查质量的重要性。

英文简介 (Course Description) :

This course teaches theoretical methods and their evaluation of survey questionnaire design, computer assisted interviewing methods, the processes of survey, quality control, build and clean-up the database, sample design and weighting adjustment by theoretical methods and their evaluation of the database. This course uses some practical investigation cases to show how to do a scientific survey and then illustrate the importance of all survey aspects in ensuring the high quality survey data.

-End-

课程号 (Course Number) : 18730020

课程名称 (Course Title) : 社会调查数据分析方法/The Analysis Methods of Social Survey Data

开课院系 (School/Department) : 中国社会科学调查中心

学分 (Credits) : 2

授课教师 (Faculty) : 顾佳峰 副研究员 Associate Research Fellow, 任强 长聘副教授, 孔涛 副研究员 Associate Research Fellow, 吴琼 副研究员 Associate Research Fellow, 陈欣欣 研究员 Research Fellow, 任莉颖(校外) 待定

先修课程 (Prerequisites) : 要求有一定定量分析能力

中文简介:

课程从常见的统计分析方法使用的误区入手, 在讲授对于社会调查数据的各类统计分析方法的正确应用环境和条件之后, 着重复杂抽样设计下的回归分析方法, 常见的分类数据的分析方法、工具变量的使用, 以及体现交叉学科特点的空间计量分析方法。每天上午以讲课为主。下午则依据需要安排参与实践。从使用常见的统计软件进行数据整理入手, 带领学员们运用实际数据进行软件操作, 从而加深对授课内容的掌握, 提高学员们的实际灵活运用能力。

英文简介 (Course Description) :

The course begins from the common mistakes of statistical analysis and teaches students the proper application of regression analysis under different environment and conditions. Students will learn how to classify data, how to use instrumental variables and gain a better understanding of the use of capabilities of spatial analysis. Lectures are arranged in the morning and action learning is arranged in the afternoon. Students come learn from this course about the use of common statistical software and practice software operations with real data, which can improve students' practical and flexible skills.

-End-

课程号 (Course Number) : 19530004

课程名称 (Course Title) : 城乡建成环境文化遗产研究与实践调查/Urban and Rural Built

Environmental Cultural Heritage Research and Practice Investigation

开课院系 (School/Department): 建筑与景观设计学院/School of Architecture and Landscape
学分 (Credits): 2

授课教师 (Faculty): 汪芳 教授 Professor

先修课程 (Prerequisites): 无强制性先修课程。建议选课学生先修以下三类课程:

- 1) 北京大学开设的“社会综合实践调查”本科生课程;
- 2) 北京大学各院系开设的社会实践类相关课程;
- 3) 北京大学考古文博学院、城市与环境学院等院系开设的遗产类相关课程。

中文简介:

“城乡建成环境文化遗产研究与实践调查”暑期课程是为全校本科生开设的野外调研课程，作为对“国家级一流本科课程”——社会综合实践调查课程的补充和延续。本暑期课程拟邀请地理学、考古学、水文水资源等相关领域专家开展跨学科教学，将理论与实践结合，聚焦于保有丰富物质遗存与文化资源的中国传统村落，多学科交叉，从自然地理、社会经济、建筑风貌、人文历史等方面认知文化遗产和传统村落，体悟并探索城镇化、城乡协同、地方性、流动性等多元视角及语境之下的文化遗产活态保护方法与内涵。课程着眼于引导学生积极探索历史过程中建成环境文化遗产的演变与响应机制，培养服务城乡未来发展的专业人才；强调文化遗产保护更新的区域性和交叉性，建立起一个更为全面科学认识建成环境文化遗产的知识框架。

英文简介 (Course Description):

The “Urban and Rural Built Environmental Cultural Heritage Research and Practice Investigation” summer course is open for undergraduate students, and serves as a supplement and continuation of the course of Social Practice and Investigation which is a “national first-class undergraduate course”. In the summer course, experts in related fields will be invited to carry out interdisciplinary discussion combining theory with practice, and focusing on the Chinese traditional villages that retain rich material relics and cultural resources. Students are encouraged to understand the villages from the aspects of physical geography, social economy, landscape architecture, human history, etc., and explore the connotation and methods of the cultural heritage protection from different perspectives in the contexts of urbanization, urban-rural development, locality and mobility. This course aims to guide students to actively explore the evolution and response mechanism of cultural heritage in the historical process of the built environment, and cultivate professional talents to serve the future urban and rural development; emphasizes the regional and cross-disciplinary character of cultural heritage conservation and renewal, and establishes a comprehensive and scientific framework of cultural heritage.

-End-

课程号 (Course Number): 21100007

课程名称 (Course Title): 中国农村教育问题专题/Lectures on Rural Education in China

开课院系 (School/Department) : 现代农学院/Peking University School of Advanced Agricultural Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 易红梅 长聘副教授

先修课程 (Prerequisites) : 无

中文简介:

过去三十多年我国经济的持续增长与繁荣令世界瞩目。在北上广这样的大城市，高楼大厦鳞次栉比，现代化的基础设施与世界上任何大都市相比毫不逊色。中国的对外投资与贸易政策正在塑造世界经济新格局。教育作为一国经济长期增长的根本，上海学生在国际学生评估项目中的卓越表现让西方教育界刮目相看。

但是，在我国农村贫困地区，很多孩子却未能共享繁荣。研究显示，贫困地区近三分之一的孩子初中都没有读完，只有百分之七的孩子有机会上大学。10-20年后这些孩子将是我国主要的劳动力。但无疑，如果不能为这些孩子提供良好的教育，他们在未来将难以胜任工作岗位的需要，并最终可能影响我国经济发展和产业结构升级。

是什么阻碍了贫困农村地区孩子们前进的步伐？《农村教育问题专题》将从教育生产函数出发，带领学生以经济发展的视角，围绕如何提高贫困农村地区学生的人力资本问题，基于大规模的调查数据对当前我国农村学前教育、基础教育和高中阶段教育面临的主要问题进行了阐述和评价，并通过实证分析解析问题的根源，探索解决之道。

英文简介 (Course Description) :

China is now synonymous with growth and prosperity. Cities such as Shanghai and Beijing boast infrastructures that rival any city in the world. China's foreign investment and trade policies shape the global economy. As education is one of the key factors for the continuous development of the country, education is essential. The academic prowess of Shanghai children in the PISA is widely acclaimed.

However, in China's rural poor areas, many children have failed to share the prosperity. Studies have shown that nearly one third of children in poor areas are not completing junior high school, and only seven percent of them have the chance to go to college. In the near future, these children will be China's major labor force. It is possible that failing to educate and train poor rural children will jeopardize China's growth and transformation into a modern, knowledge-based economy.

What hinders the advancement of children in poor rural areas? Lectures on Rural Education in China will describe the challenges in rural education, present how economist have looked at/analyzed these challenges, and finally explore the effective ways to improve human capital in poor rural areas. The content of the lectures is a combination of theory and practice. Theoretically, it will start from education production function. And then we will use the empirical data to help students understand/analyze/and explore how to solve these problems that arises in each stage of education from preschool education to senior high school.

-End-

课程号 (Course Number) : 21100013

课程名称 (Course Title) : 水资源稀缺经济和政策分析/Economy of Water Scarcity and Policy Analysis

开课院系 (School/Department) : 现代农学院/Peking University School of Advanced Agricultural Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 王金霞 教授 Professor

先修课程 (Prerequisites) : 无

中文简介:

你知道吗? 作为地球万物生命之源和人类社会发展的基本物质条件之一的水资源正在面临着日益严峻的短缺危机; 水资源危机已经从区域性的矛盾逐渐演变为全球人类面临的共同挑战。越来越多的证据表明, 水资源危机的根本出路在于如何设计和实施有效的水资源管理制度和政策手段; 实现水资源从供给管理到需求管理策略的转变。这也意味着资源经济学家必须在解决水资源危机中承担起更大的历史责任。

那从, 从资源经济学的视角如何来理解水资源危机的现状与未来? 水资源管理制度是如何演变的? 什么样的水资源管理制度更有效? 水资源的经济价值如何衡量? 水价政策和水权制度等以市场激励为主的政策工具能否在解决水资源危机中发挥应有的作用? 节水技术真得实现节水目标了吗? 被决策者给与高度关注的跨流域或跨地区的调水工程效果如何? 虚拟水贸易能否作为缓解水危机、保障国家粮食安全的重要策略?

针对这些问题, 本课程将基于资源经济学的理论和方法并结合实际案例加以深入系统地定性与定量解析。本课程旨在丰富学生在资源经济尤其是水资源经济方面的主要理论知识和分析方法, 了解该领域的研究进展, 学会运用经济学的思维方式和分析方法来理解和解释现实生活中遇到的主要水资源问题, 提高学生对水资源危机的现状、未来及可能解决方案的认知水平; 提高学生运用经济学思维方式和分析方法来研究水资源等自然资源问题的能力及学习兴趣。

英文简介 (Course Description) :

Do you know? As the source of life and essential material conditions of development of human society, water has been challenged by increasing serious scarcity. Water scarcity has changed from regional conflict to global challenges. Increasing evidence indicate that the fundamental solution of resolving water scarcity is to design and implement effective water management institution and policy instruments; and realize the transform from supply management to demand management strategies. This implies that resource economics should bear more important historical responsibility of resolving water scarcity.

Therefore, how to understand the current situation and future trend of water scarcity from the opinion of economics? How the institution of water management has evolved? What kind of water management institution is more effective? How to measure the economic value of water resources? Whether incentive policies (such as water policy and water rights institution) can play significant role on resolving water scarcity? Whether water

saving technologies has realized the purpose of real water saving? Water transfer projects between river basins or regions have been highly emphasized by policy makers. However, how about the effectiveness of the water transfer projects? Whether virtual water trade can be treated as important strategies on resolving water scarcity and ensuring food security?

Focusing on these issues and based on the theories and methodologies of resource economics, this course will conduct systematic qualitative and quantitative analysis on practical cases. This course aims to enrich students' theoretical knowledge and analytical approaches in resource economics (particularly water economics); understand the major frontier research progresses; learn how to use economic logic thinking and analysis approaches to understand and interpret major water problems; enhance students' understanding on the current situation and future trend of water scarcity, and their capacity on using economic method to analyze the problems of water and other natural resources and their learning interest.

-End-

课程号 (Course Number) : 21100040

课程名称 (Course Title) : 环境经济学前沿与阅读写作/Advances, literature review and writing on environmental economics

开课院系 (School/Department) : 现代农学院/Peking University School of Advanced Agricultural Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 侯玲玲 助理教授

先修课程 (Prerequisites) : 计量经济学基础

中文简介:

本课程通过经典与前沿文献阅读、课堂讲解和讨论的方式向学生传授环境经济学基本理论、环境政策工具、环境价值评估和农业环境问题四部分内容。第一部分以经典文献和理论推导为主，讲授环境经济学的基本理论，主要包括市场失灵、政府失灵、社会贴现率与私人贴现率、不确定性和政策选择。第二部分采用经典和前沿文献阅读、课堂讲解与讨论的方式使学生掌握主要环境政策工具的原理、优缺点、典型案例及应用，主要包括直接控制与标准排污、定价与庇古税、排污权交易、补贴政策、自愿及信息披露和创新激励等。第三部分通过前沿文献阅读、案例实操、课堂讲解与讨论的方式使学生掌握环境价值评估方法的原理与应用。第四部分梳理和关注主要的农业环境问题，以前沿文献阅读与讨论为主。

英文简介 (Course Description) :

This course teaches students the basic theory of environmental economics, environmental policy tools, environmental value assessment and agricultural environmental issues through reading classic and cutting-edge literature, classroom explanation and discussion. The first part focuses on classical literature and theoretical derivation, and teaches the basic theories of environmental economics, mainly including market

failure, government failure, social discount rate and private discount rate, uncertainty and policy choice. The second part adopts the methods of classical and cutting-edge literature reading, classroom explanation and discussion to enable students to master the principles, advantages and disadvantages, typical cases and applications of main environmental policy tools, mainly including direct control and standard emission, pricing and Pigou tax, emission trading, subsidy policies, voluntary and information disclosure and innovation incentives. The third part enables students to master the principle and application of environmental value assessment methods through cutting-edge literature reading, case practice, classroom explanation and discussion. The fourth part combs and pays attention to the main agricultural environmental problems, focusing on the reading and discussion of cutting-edge literature.

-End-

课程号 (Course Number) : 21130001

课程名称 (Course Title) : 植物发育及分子生物学/Plant Development and Molecular Biology

开课院系 (School/Department) : 现代农学院/Peking University School of Advanced Agricultural Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 邓兴旺 教授 Professor, 林辰涛(校外) 待定, 乔红(校外) 待定, 赵云德(校外) 待定, DONG JUAN(校外) 待定

先修课程 (Prerequisites) : 无先修课程

中文简介:

授课内容紧扣当今植物科学基础理论与应用领域内前沿与热点, 详细介绍植物发育生物学和分子生物学的基本概念, 以及各领域的研究工作、最新进展、经验和方法。课程内容包括: 植物细胞极性和形态建成的信号转导机制; 植物干细胞分化和调控的分子机制; 植物生长发育信号的表观遗传机制; 植物基因组分析在植物发育研究中的运用; 植物光形态建成及光信号分子转导途径。

英文简介 (Course Description) :

This summer course focuses on the basic concepts and research breakthroughs in plant biology, especially plant development and molecular biology. In addition, the instructors will introduce their own research work and their techniques in relevant fields. The courses will be divided into several parts:

1. Signaling in Cell Development
2. Stem Cell Regulation in Plant Development
3. Epigenetic Mechanisms in Signaling of Plant Development
4. Application of Plant Genome Analysis in the Study of Plant Development
5. Light Regulation of Plant Development

-End-

课程号 (Course Number) : 21130002

课程名称 (Course Title) : 植物知道生命的答案/What A Plant Knows:The surprising world of plant senses

开课院系 (School/Department) : 现代农学院/Peking University School of Advanced Agricultural Sciences

学分 (Credits) : 2

授课教师 (Faculty) : Daniel Chamovitz(校外) 待定

先修课程 (Prerequisites) : 无先修课程

中文简介:

走进你不知道的植物世界，思考生命真实的存在！

捕蝇草是怎样知道闭拢叶子的时机的？它真的能感觉到昆虫微小、细长的腿吗？樱花树又是怎样知道何时应该开花的？它们真的能记住天气吗？

几个世纪以来，我们不断惊异于植物的多样性和形态。著名生物学家丹尼尔查莫维茨现在将在《植物知道生命的答案》课程中，对植物如何体验世界给以严谨而引人入胜的讲解，包括它们所看到的颜色还是它们所遵守的时刻表。

通过着重介绍遗传学等领域的最新研究成果，丹尼尔查莫维茨将带领我们走进植物的内在世界，把它们的感觉和人类感觉做对比，揭示出如下事实我们和向日葵及栎树的共同之处，比你知道的更多。丹尼尔查莫维茨将在课程中展示植物如何分辨上和下，如何知道邻近的同类已经遭到了一群饥饿甲虫的侵害，是否能够欣赏你一直放给它们听的齐柏林飞艇乐队的音乐，或者是否更偏好于巴赫那旋律优美的连复段。通过对植物触觉、听觉、嗅觉、视觉以至记忆的考察，促使我们不得不去思考：植物会不会对周围环境有意识？

《植物知道生命的答案》课程难能可贵地对我们踏过的草丛、我们嗅过的花朵、我们爬过的树木给以深入关注，让我们能够更好地理解科学和我们在自然界中的位置。

英文简介 (Course Description) :

For centuries we have collectively marveled at plant diversity and form—from Charles Darwin’s early fascination with stems and flowers to modern science fiction. This course intends to present an intriguing and scientifically valid look at how plants themselves experience the world—from the colors they see to the sensations they feel. Highlighting the latest research in genetics and more, we will delve into the inner lives of plants and draw parallels with the human senses to reveal that we have much more in common with sunflowers and oak trees than we may realize. We’ll learn how plants know up from down, how they know when a neighbor has been infested by a group of hungry beetles, and whether they appreciate the music you’ve been playing for them or if they’re just deaf to the sounds around them. We’ll explore definitions of memory and consciousness as they relate to plants in asking whether we can say that plants might even be aware of their surroundings. This highly interdisciplinary course meshes historical studies

with cutting edge modern research and will be relevant to all students intrigued by nature.

-End-

课程号 (Course Number) : 21130011

课程名称 (Course Title) : 经济学视角下的资源环境热点问题/Hot Topics on Natural resources and the Environment from economics perspectives

开课院系 (School/Department) : 现代农学院/Peking University School of Advanced Agricultural Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 侯玲玲 助理教授

先修课程 (Prerequisites) : 无

中文简介:

从“沙尘暴”到“PM2.5”，从“水污染”到“水资源短缺”，从“荒漠化”到“土壤重金属污染”，从“濒危野生动物”到“生物入侵”，从“湿地面积不断减少”到“全球气候变化”，这些都是我们正在经历的资源退化与环境污染问题。

我们能为子孙后代留下多少自然资源？在追求经济发展的同时，如何进行环境保护？经济学在解决资源环境问题上发挥哪些作用？哪些经济学工具可以有效治理环境问题？一只瓢虫值多少钱？排污交易权制度真的有效吗？全球生态系统服务值多少钱？让我们带着这些问题一同走进《经济学视角下的资源环境热点问题》。

本课程主要对资源环境经济学领域的热点问题进行解读，旨在启发学生从经济学的视角理解现实生活中的资源环境问题，掌握治理资源环境问题的主要经济工具。课程素材来自世界各国（尤其是我国）在自然资源保护和环境污染治理方面的案例。

英文简介 (Course Description) :

We are suffering from serious resource degradation and environmental pollution at every moment when we are living on the earth, such as sandstorm and PM 2.5, water shortage and pollution, desertification and soil contamination, endangered species and biological invasion, decreasing wetland and global climate change.

How many natural resources can we save for our descendants? How to balance economic development and environmental conservation? What does the role of economics play in solving these natural resource and environmental issues? What are the economic tools in regulating the environment? What is the price of a ladybeetle? Is tradable permit effective in reducing pollution? How much is global ecosystem service? Let's respond to all these issues in our course!

This course will provide deep explanation for the major hot topics in resource and environment area from economics perspective. The goal is to inspire the students to apply economics in solving the issues in resource and environment surround us. The course materials include both basic economic logics and classical cases from all over the world.

-End-

课程号 (Course Number) : 21130013

课程名称 (Course Title) : 经济学模型CGE的基本原理及优化软件GAMS编程/Principles of CGE model and Programming

开课院系 (School/Department) : 现代农学院/Peking University School of Advanced Agricultural Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 解伟 长聘副教授

先修课程 (Prerequisites) : 无

中文简介:

实证模型与定量分析已成为应用经济学与公共管理学研究的重要手段。“拍脑袋”、定性分析已经无法满足经济政策分析的需求。如政府要降低出口退税率，以便减少贸易顺差。到底退税率要减少多少？对就业有什么影响？对相关的不同产业，如服装、农业各有什么影响？

可计算一般均衡模型 (Computable General Equilibrium Model, CGE) 是一种最新发展起来的经济定量模型，它可以应用于许多研究领域 (贸易、财政、环境等)，并能给出实际的政策建议。它的特点是考虑到国民经济各个部分密切相关，牵一发而动全身，不仅对直接影响的部门做定量分析，而且考虑各个部门之间的相互依存和关联关系。本课程由浅入深，循序渐进，从模型需要的数据基础投入产出表讲起，讲解经济学的一些基本函数 (生产、消费、投资、政府和贸易) 和一般均衡理论；适时介绍相关的经济学理论，结合实例、练习和编程，将CGE标准模型的基本原理和结构讲清讲透；以掌握标准的CGE模型为基本目标，讲解CGE模型的基本原理。课程实例全部采用运筹优化软件GAMS语言编程，主要用于经济学基本函数的优化求解和CGE模型求解，也会探讨如何用于其他优化求解问题。

本课程既介绍CGE模型中的经济学原理，又与大家一起动手进行GAMS编程，使学生不但能掌握从理论出发针对问题建造和设计CGE模型，同时也能编写相应的GAMS程序来用计算机模拟CGE模型。

英文简介 (Course Description) :

Empirical models and quantitative analysis have become important tools for applied economics and public administration. Meanwhile, “subjective decision making” through qualitative analysis no longer can satisfy the requirements of economic policy analysis. For example, in order to abate the trade balance, how much export subsidies should be lowered? How will this affect the labor market? How will this affect other relevant sectors like textile and agriculture?

Computable General Equilibrium (CGE) Model is the latest quantitative tool developed in economics area. It can be used in multiple research areas (trade, tax, environment etc.) to provide practical policy suggestions. One of its special features is that it not only can perform quantitative analysis of the direct affected industrial sectors, but it can simulated the whole economic impact by considering the interdependence of all the sectors of the economy. This course is designed to take you step-by-step from basics of CGE model to a higher level (a standard CGE model). The course starts with Input-Output tables and later explains the functional relationships (production, consumption, investment, government and trade) in economic system and ends with general equilibrium theory and standard CGE model. The course will be mixed with relevant economic theory, practical examples and programming. The CGE model will use the optimization software “GAMS” for explaining the practical examples. In our course, GAMS will mainly be used for optimizing the CGE model, but it will also used to solve other optimization examples to expand your knowledge.

In this course, students will not only master how to confront a problem from theoretical side by constructing a CGE model but will also learn how to compile GAMS routines to solve optimization problems in CGE and other models.

-End-

课程号 (Course Number) : 21130015

课程名称 (Course Title) : 管理经济学基础/Economic Principal for Management

开课院系 (School/Department) : 现代农学院/Peking University School of Advanced Agricultural Sciences

学分 (Credits) : 2

授课教师 (Faculty) : SHENGYU 教授 Professor

先修课程 (Prerequisites) : 无

中文简介:

本课程旨在帮助非经济学专业的本科生、研究生、工商管理硕士 (MBA) 和金融专硕等系统的了解有关经济学和管理学背后的基本理论和方法, 学会以批判的思维分析企业经营管理所处的微观和宏观经济环境, 并掌握经济学中的量化分析方法评估市场环境和开放经济条件下的企业管理方法。

本课程包括两个主要部分: 第一部分主要讨论消费者行为、市场需求和消费者剩余、生产和成本理论、市场结构与均衡、企业定价策略、博弈论与信息经济学和一般均衡理论。第二部分主要讨论经济增长理论、国民收入核算体系、货币与银行学基础、通货膨胀与失业、财政和货币政策以及开放的国际经济。

英文简介 (Course Description) :

This course is designed for undergraduates and graduates with no economic background, and provide the basic knowledge on the principles of economics and management. The purpose is to help students to 1) learn the economic theories and methods in a systematic way; 2) analyze macro-economic and micro-economic market environments from a critical perspective; 3) capable of using the qualitative and quantitative approaches in practice.

The course contains two parts: the first part covers: consumption behavior, market demand and surplus, production and cost theory, market equilibrium and market structure, price strategy, game theory and information economics, and general equilibrium theory; the second part covers: economic growth theory, national accounts, monetary and banking principles, inflation and unemployment, fiscal and monetary policies and open economics.

-End-

课程号 (Course Number) : 21130016

课程名称 (Course Title) : 食品安全: 政治经济学和心理学研究/Food Security: Political Economics and Psychology

开课院系 (School/Department) : 现代农学院/Peking University School of Advanced Agricultural Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 王晓兵 长聘副教授

先修课程 (Prerequisites) : 无

中文简介:

食物在中国始终是一个古老而年轻的话题。农业经济思想可以追溯到远古时代，我国春秋时期，孔子和孟子的著作中已有诸多关于农业制度与政治、安定民生的论述。“哥伦布大交换”、人口增长和迁移奠定了现代文明的基石。上世纪曾发生的数次大饥荒，仍给不少人保留下深刻的饥饿记忆。在食物贸易和全球食物价值链供给背景下，我们的膳食偏好和食物消费也正悄然发生变化，引发现代人对肥胖和健康的思考。心理学的交叉研究帮助我们识别食物消费决策机理，引导着理性食物消费。食品安全与消费也需关注食物浪费、环境与能源的可持续性。本课程将从理解全球、国家和家庭等不同尺度的食品安全讲起，在回忆历史上次大饥荒事件的基础上，梳理全球食品安全的演变过程。运用经济学和心理学的交叉研究理解食物消费中的差异化行为。最后本课程还将探讨现代农业中的食物浪费、环境与能源问题如何影响我们未来的食品安全与消费。选修《食品安全: 政治经济学与心理学》，关注食品安全与消费。

英文简介 (Course Description) :

Food security has always been debated burningly since the taste of herbs by Shennong which created the era of “slash and fire” and the publication of the agronomy encyclopedia. The thoughts of agricultural economy can be traced back to the ancient times. Confucius and Mencius had many expositions on agricultural operation,

institutions and the livelihood. "Columbian exchange", population growth and migration laid the cornerstone of modern civilization. Many people still deeply remember the hunger due to several famine events in the last century. In the context of food trade and the value chains of global food supply, our dietary preferences and food consumption are also changing. These trigger the deep thinking about obesity and health. Interdisciplinary studies in psychology help us identify food consumption decision mechanisms, and then the results will guide rational food consumption. Food safety and consumption should also focus on food waste, environmental and energy sustainability. This lecture presents the definition of food security from global, national and households' dimensions. After studying the several famines in history internationally and nationally, we analyze the evolution of global and China's food security policy. Using the Interdisciplinary studies between economics and psychology, we will better understand the differential behavior in food consumption. Finally, this lecture will also explore how food waste, environmental and energy issues in modern agriculture, which influence our future food safety and consumption. This lecture motivates the students focusing on "Food security and consumption" Welcome to "Food Security: Political Economics and Psychology" !

-End-

课程号 (Course Number) : 21130018

课程名称 (Course Title) : 植物大迁徙/The Great Plant Migrations

开课院系 (School/Department) : 现代农学院/Peking University School of Advanced Agricultural Sciences

学分 (Credits) : 2

授课教师 (Faculty) : 周岳 助理教授

先修课程 (Prerequisites) : 无

中文简介:

我们的衣食住行都离不开植物，可是你知道植物也是漂洋过海大“迁徙”才到达世界各地吗？为什么法国经济学家法布尔说“国王的私生子都能在历史上留名，而小麦的源头却无人知晓”？你知道伴随着植物“迁徙”，人类的经济和社会活动都产生了什么巨大变化吗？反之，人类经济的发展又会对植物生长和迁徙产生怎样的影响？千万年来，植物的根、茎、叶、花、果实、种子提供着人类所需的全部七大营养素：水、蛋白质、油脂、碳水化合物、维生素、矿物质、和膳食纤维，可是你知道它们本来的样子吗？吃米的南方人跟吃面的北方人会有不同的性格吗？

本课程从介绍植物的驯化以及“迁徙”角度出发，不但让学生了解植物的生理和发育，关注隐藏的分子调控机理，而且还可以结合农业经济的基本知识，帮助人们认识植物“迁徙”和人类经济社会发展的互动关系。溯本求源，热爱植物和农业经济碰撞的你，欢迎选修《植物大迁徙》！

英文简介 (Course Description) :

Humans couldn't exist without plants, but do you know how plants travel everywhere in the world? French economist Jean Henri Fabre said that it knows the names of the king's bastards but cannot tell us the origin of wheat. What does this mean? How has the Great "Plant Migrations" changed the social economics activities and vice versa? For thousands of years, roots, stems, leaves, flowers, fruits, and seeds of the plants have provided all seven nutrients the human body needs: water, proteins, lipids, carbohydrates, vitamins, minerals, and dietary fibers. But do you know how plants look like before we domesticated them? This course aims to present the plants domestication and "migrations". Students will not only learn the plant physiology, development and the underlying molecular mechanisms, but also learn the agricultural economics to understand the changes caused by plant "migrations". If you are the person who is seeking the unknown and loving the combination of plants and economics, welcome to "The Great Plant Migrations"!

-End-

课程目录Course Catalog

课程号 (Course Number) : 01834300

课程名称 (Course Title) : 媒体与中国社会/Media and Society in China

开课院系 (School/Department) : 教务部

学分 (Credits) : 3

授课教师 (Faculty) : 陈开和 教授 Professor

先修课程 (Prerequisites) : 不要求先修课程。选课同学事先对中国现当代历史应有所了解。

中文简介:

本课程将帮助学生学习和了解中国（包含中国大陆以及香港、台湾等地区）新闻与传播事业的总体情况，以及中国新闻传播政策的演变过程及相关影响因素。此外，课程将分析中国各类媒体（包括印刷媒体、电子媒体以及新兴的网络媒体等）的发展过程及其与中国社会的互动关系，同时探讨中国媒体在海外的影响力，以及海外媒体在中国的情况及对中国社会的影响。课程讲授方式包括教师讲授、以及相关的小组讨论/参观考察等。

英文简介 (Course Description) :

This course offers a general overview of journalism and communications in China, with a focus on the Mainland China. Media in other parts of Greater China, including Hong Kong and Taiwan will also be addressed. It will analyze the features, developments and impact of various media: print, TV, radio, online media, and social media like Weibo and Wechat. Based on an understanding of the development and current media landscape, the course will take a comparative look into the role of the media in Chinese society. It will also look at how China is perceived in and outside China through the prism of the media, as well as how the outside world is covered by Chinese correspondents.

-End-

课程号 (Course Number) : 02031540
课程名称 (Course Title) : 中国古代文化/Ancient Chinese Culture
开课院系 (School/Department) : 教务部
学分 (Credits) : 2
授课教师 (Faculty) : 廖可斌 教授 Professor

先修课程 (Prerequisites) : 无

中文简介:

本课程拟分若干专题，比较系统地介绍中国古代文化的各个主要方面，使学生对中国古代文化的整体框架、基本特征及当代意义有基本了解。本课程注重介绍中国古代文化相关知识，同时强调问题意识、比较视野、当代视角，即从中国古代文化的历史现象中提炼出若干问题，注重中外文化特别是中欧文化的比较，探讨中国古代文化对中国历史发展的影响及其当代价值。

英文简介 (Course Description) :

This course includes several topics and systematically introduces the main aspects of ancient Chinese culture, aiming to make students get a basic understanding of the framework, characteristics and contemporary significance of ancient Chinese culture. While focusing on knowledge relating to ancient Chinese culture, this course also lays emphasis on problem consciousness, comparative vision and contemporary perspective. Specifically, it emphasizes generalizing several important aspects of ancient Chinese culture from historical phenomena, and comparing Chinese culture with foreign cultures, especially European ones, and exploring how ancient Chinese culture influences Chinese history and what's its contemporary value.

-End-

课程号 (Course Number) : 02335200
课程名称 (Course Title) : 庄子哲学/Philosophy of Zhuang Zi
开课院系 (School/Department) : 教务部
学分 (Credits) : 2
授课教师 (Faculty) : 郑开 教授 Professor

先修课程 (Prerequisites) :

中文简介:

庄子是中国哲学史上最具有特色的人物之一。其独特的关于人生和世界的思考，以及生活方式的选择，在中国历史上留下了浓墨重彩的一笔。本课程以庄子内七篇为主，将系统介绍庄子以生

命为中心的哲学思考，其中包括对世界、权力、财富、功名等的理解。在讲授的过程中，希望借助于庄子和儒家对比的方式，展现两种不同的生命形象。

英文简介 (Course Description) :

Zhuangzi is one of the most distinctive figures in history of Chinese philosophy. His special meditation on life, world, and choice on lifestyle, has produced a deep and long-reaching influence on Chinese history. This course will focus on the inner chapter of Zhuangzi, and attempts to introduce the philosophical thoughts centering on life systematically, including the understanding of world, power, wealth and fame. During the course, I hope to show you two kinds of different life forms by means of comparing Zhuangzi and Confucianism..

-End-

课程号 (Course Number) : 02335261

课程名称 (Course Title) : 荷马史诗的伦理学/Ethics of Homeric Epics

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 陈斯一 长聘副教授

先修课程 (Prerequisites) : 无

中文简介:

本课程旨在讲授荷马史诗的伦理学思想，以荷马的《伊利亚特》与《奥德赛》为重点文本，结合现代研究文献，在精读文本的基础上，理解并讨论这些作品所包含的伦理思想，并以此为切入点，了解古希腊历史、文化、哲学的一般特性。

英文简介 (Course Description) :

This Course teaches ethics of Homeric epics, based on intensive reading of Iliad and Odyssey and relevant modern literature, with a view to understanding the ethical thought these texts contain, as well as the general character of Greek history, literature, and philosophy.

-End-

课程号 (Course Number) : 02335330

课程名称 (Course Title) : 世界文明中的科学技术/Science And Technology in World Civilizations

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 周程 教授 Professor, 周程 教授 Professor

先修课程 (Prerequisites) : 无

中文简介:

本课程主要以世界科学技术活动中心的变迁为线索，着重介绍自古希腊以来世界史上各科学技术活动中心的兴起和衰落的过程，并尽可能地阐明导致这些中心兴起或衰落的社会原因。旨在让学生了解世界科技文明的主要发展进程，以及科学技术的发展对大国崛起所产生的影响，借以拓宽学生的认识视野，提高他们的综合文化素养。

英文简介 (Course Description) :

This course “Science and Technology in World Civilizations” focuses on the transformation of the scientific and technological centers in the world history since ancient Greece, as well as the social factors behind their rises and falls. The objectives of this course is to help the students grasp the main process of the development of science and technology in world civilizations and understand its role in the prosperity of a nation, especially for the superpowers on world political stage.

-End-

课程号 (Course Number) : 02432090

课程名称 (Course Title) : 本土视野下的中国外交与国际事务/Chinese Perspective on International and Global Affairs

开课院系 (School/Department) : 教务部

学分 (Credits) : 3

授课教师 (Faculty) : 陈长伟 副教授 Associate Professor

先修课程 (Prerequisites) : 无

中文简介:

本课程将在本土视野之下介绍中国外交与国际事务的互动关系，分析中国如何通过全面参与国际和全球事务为国内经济与社会发展营造有利的外部环境，以及该过程如何影响了中国自身的政治和外交行为。本课程分导论、主体和结论三部分。导论部分将介绍中国外交与国际事务研究的主要学习方法，主体部分讨论当代中国对外关系的主要理论与现实问题，包括中国对外关系的历史背景、民族主义和公众舆论对中国对外政策的影响、中国对外政策的决策机制、主要决策者及其风格分析、中国和全球治理、中国和世界经济、中国的软实力建设和公共外交、中国的周边外交战略、以及学术界关于中国对外政策分析中的若干理论争鸣。结论部分则尝试对中国未来的国际地位进行前瞻性的讨论。

英文简介 (Course Description) :

This undergraduate lecture course is designed to survey major topics of the international relations of the People’s Republic of China with a specific focus on

Chinese perspective. With a brief introduction of major theoretical perspective on foreign policy studies, the main body of the course is organized around special topics of Chinese foreign policies, including the Chinese historical legacy and its impact on China's foreign policy, nationalism and public opinion in contemporary China, mechanism of China's foreign-policy decision-making, leaders and their styles, China's attitudes towards global governance, the economic dimension of China's interactions with the outside world, public diplomacy and China's soft power and China's policy towards peripheral countries, (in particular, the Northeast Asia and the South China Sea). This course pays attention to the application of different international relations theories to the problems under study. The course aims to acquaint students with knowledge of China's involvement in world affairs in historical and contemporary perspectives and train them with an analytical understanding of the dynamics of China's foreign policy.

-End-

课程号 (Course Number) : 02534380

课程名称 (Course Title) : 应用经济计量/Applied Econometrics

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 秦雪征 教授 Professor

先修课程 (Prerequisites) : This course is intended for the upper undergraduate students in Economics, Business or other social science majors. Graduate students are also welcome. Prior training in Introductory Econometrics or Statistics is required. The main focus of the course is to use econometric tools to solve real-world problems, and thus we will not spend much time on the mathematical derivation of basic models.

中文简介:

本课程旨在系统介绍计量经济学的常用研究方法，并培养学生独立运用计量经济模型及计算机软件分析解决实证经济问题的能力。课程主要涵盖以下内容：线性回归和函数形式的选取，异方差和序列相关性，基础和高级时间序列模型，混合横截面和面板数据模型，离散选择模型，内生性和工具变量估计，联立方程模型等。实现以上模型所需要的计算机编程技术（SAS软件）也将在课上讲授。同时，学生将有机会独立使用现实经济数据进行项目研究，从而提高自己的科研能力。

英文简介 (Course Description) :

This course provides you with a general understanding of the econometric modeling tools that are frequently used in the empirical economic studies. The topics covered include linear regressions and the selection of functional forms, heteroskedasticity and serial correlation, basic and more advanced time series techniques, pooled cross-sectional and panel data models, models for binary choice and limited dependent

variables, endogeneity and instrumental variable estimation, simultaneous equation models, etc. The computer programming techniques that are needed to implement the above models will also be taught using SAS software. In addition, you will get a taste of empirical research using the real-world data by conducting an independent research project.

-End-

课程号 (Course Number) : 02535030

课程名称 (Course Title) : 企业全面风险管理/Enterprise Risk Management

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 陈凯 副教授 Associate Professor

先修课程 (Prerequisites) : Risk Management, Finance, Calculus, Probability

中文简介:

Enterprise Risk Management在国内被翻译为全面风险管理或企业全面风险管理。本课程在讨论企业全面风险管理的框架基础上,介绍企业全面风险管理在实务中的需要和应用。本课程将分别从企业全面风险管理的概念、改革、模型、应用和未来进行阐述,要求同学们在了解企业全面风险管理的概念和框架的同时,掌握其模型和应用。同学会被要求以小组为单位解决一些实务问题,并给出课题报告。

英文简介 (Course Description) :

Enterprise risk management is a complex yet critical issue that all companies must deal with as they head into the twenty-first century. It empowers you to balance risks with rewards as well as people with processes. But to master the numerous aspects of enterprise risk management, you must first realize that this approach is not only driven by sound theory but also by sound practice.

This course is based on the framework of Enterprise Risk Management. It also introduces the models and applications of Enterprise Risk Management. The scheme of the course is followed by introduction, reform, model, application and future of Enterprise Risk Management.

It requires students not only to understand the concepts and framework of Enterprise Risk Management, but also to master the risk management model and applications in the real world. Students are required to finish a group project and present the report at the end of the course.

-End-

课程号 (Course Number) : 02535620

课程名称 (Course Title) : “一带一路”和新结构经济学视角下的国际实践/BRI and the international practice from the perspective of New Structural Economics

开课院系 (School/Department) : 教务部

学分 (Credits) : 3

授课教师 (Faculty) : 于佳 副研究员 Associate Research Fellow

先修课程 (Prerequisites) : 无，对发展经济学尤其是一带一路国家发展实践感兴趣的学生都可以报名。

中文简介:

本课程为学生解读“一带一路”倡议以及新结构经济学视角下的国际实践。在引入新结构经济学“增长甄别与因势利导框架”的基础上，分析非洲、亚洲工业园区发展的实践和经验，并提出“一带一路”建设需要第三方合作，包括与发达国家和国际组织的合作。“一带一路”建设中需要秉持绿色发展理念，推动基础设施绿色、低碳化，加强生物多样性保护和应对气候变化。在全球化重构形势下，“一带一路”建设面临新的挑战 and 机遇，需要在新结构经济学指导下推动“基础设施+制造业+服务业”的新模式。

课程包括以下八个单元:

- 一、全球化背景下“一带一路”倡议与新结构经济学：“华盛顿共识”的失败，新结构经济学成为发展中国家的可行选项
- 二、新结构经济学“增长甄别与因势利导框架”和工业园区建设的利益相关方分析 (GROW model)
- 三、案例分析：非洲工业园区发展的实践，包括埃塞俄比亚的成功经验以及新结构国际智库团队在贝宁、尼日利亚等国家的具体实践案例
- 四、案例分析：亚洲国家承接中国产业转移的实践，包括中巴经济走廊的得失分析
- 五、案例分析：“一带一路”对接金砖机制、亚投行，“一带一路”发展中国家不仅需要优惠资金，更需要新的发展理念和最佳实践
- 六、“一带一路”建设中的第三方合作，包括与发达国家和国际组织的合作
- 七、“一带一路”建设与绿色发展，包括应对气候变化、光伏产能转移的潜力评估
- 八、全球化重构形势下“一带一路”建设的挑战和机遇：全球产业链的区域化、多元化正在加速，部分“一带一路”发展中国家特别是非洲面临边缘化，需要推动“基础设施+制造业+服务业”新模式

英文简介 (Course Description) :

This course will help students to understand the “belt and road initiatives” (BRI) and the international practice from the perspective of new structural economics, as well as the application of Growth Identification and Facilitation Framework (GIFF tool). The course assess the experience and lessons learnt from the industrial park development in selected African and Asian countries. The BRI needs third party cooperation, including cooperation with developed countries and international organizations. BRI also needs to uphold the concept of green development, promote green and low carbon infrastructure, strengthen biodiversity conservation and address climate change. Given the new trend of regionalization in the global supply chain, BRI is facing new challenges and opportunities, it is proposed to promote the new mode of “infrastructure + manufacturing + service” under the guidance of new structural economics. The course

includes the following eight units:

- 1) BRI in the era of globalization: failure of “Washington consensus” while new structure economics becomes a viable option for developing countries.
- 2) New structural economics “Growth Identification and Facilitation Framework, GIFF) and stakeholder analysis of industrial park development (GROW model).
- 3) Case analysis: industrial park development in Africa, including the successful experience of Ethiopia; the INSE think tank team’s practice in Benin, Nigeria, and other African countries.
- 4) Case analysis: Asian countries undertaking China’s industrial transfer, including assessment of China Pakistan Economic Corridor.
- 5) Case study: BRI vs. BRICS mechanism (including New Development Bank) and AIIB. The developing countries in BRI need concessional resources but more on new development concept and best practices.
- 6) BRI and third party cooperation, including cooperation with developed countries and international organizations.
- 7) BRI and green development, including the assessment of the potential of responding to climate change and relocation of solar photovoltaic capacity from China to other developing countries.
- 8) The challenges and opportunities of BRI under the new trend of globalization: The regionalization of supply chain has been accelerating and some developing countries, African countries in particular, are facing marginalization. Therefore, in the implementation of BRI, a new model of “infrastructure + manufacturing + service” should be adopted.

-End-

课程号 (Course Number) : 06732040

课程名称 (Course Title) : 经济学视角下的教育世界/Economics of Education

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 马莉萍 副教授 Associate Professor

先修课程 (Prerequisites) : 无

中文简介:

教育政策是世界范围内教育领域的重要研究课题。过去二十年来，世界各国的经济学家致力于教育政策的研究，并做出了重要贡献。本课程旨在帮助学生在掌握经济学基本原理和主要分析方法的基础上，理解经济学家如何思考教育政策的制定、实施和评估，并建立分析教育政策的经济学思维及方法体系。

本课程以专题研讨的形式组织，在每一专题下，选取一到两项在国内外具有重要影响的教育政策或改革项目，梳理政策的起源和发展，分析经典实证研究，讨论可能的解决思路、评估方案及发展方向。学生通过本课程的学习，将能够系统了解教育经济领域的前沿研究，并熟练地运用经济学的思维和方法分析研究现实中的教育政策，为将来从事社会科学研究奠定一定的理论和方法基础。

英文简介 (Course Description) :

Over the past twenty years economics has made a number of contributions to understanding the role of education in the wider economy and the effectiveness of various education policies. This course provides a broad overview of the different issues in education that economists study. Through readings and discussion we will study the various aspects of the intersection of economics and education policy.

The goal for this course is to provide you with a broad understanding of the issues that arise at the intersection of education and economic policy, to be able to make judgments about the effectiveness of various education policies based on current research, and to be able to make cogent and effective arguments about appropriate policy recommendations. Thus upon completion students should be capable of thoroughly reading and criticizing research papers using econometric techniques in applications and to know when it is appropriate to apply such techniques to their own research.

This course will cover topics in the economics of education policy through reading and discussion of seminal papers and latest research. Specific topics chosen will be determined by the instructor with input from the students and may include, but are not limited to, school choice, peer effects, class size, teacher incentives, online education, college access, financial aid, college graduates' employment etc.

-End-

课程号 (Course Number) : 12739120

课程名称 (Course Title) : 中国环境挑战/Environmental Challenges in China

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 郑玫 教授 Professor

先修课程 (Prerequisites) : Students wishing to enroll in this course are expected to

be interested in environmental issues and sustainability of future earth. Students majoring in science and engineering are welcome to enroll.

中文简介:

随着经济的快速发展，中国当前面临了严峻的环境挑战问题。该课程旨在给本科生介绍中国的主要环境问题及探讨可持续发展路径，围绕当前最具挑战性的环境问题来讨论。课程内容包括对地球系统基本结构的介绍、中国环境污染的现状和成因、主要的政策和治理措施。该课程将特别介绍中国是如何在近年成功地治理灰霾、提高空气质量，帮助学生认识大气污染的来源、形成机制、健康效应及重要政策措施的实施。

英文简介 (Course Description) :

With fast economic development, environmental challenge is one of the most important issues that China is facing now. This course is intended for undergraduate students to examine key issues and topics that are related to environmental pollution in China and discuss sustainable pathways. The course is organized around the central question – the most pressing environmental challenges in China and sustainability. It includes the introduction of basic structure of earth system, the current status and causes of major environmental pollution in China, and the policies and control plans for pollution abatement. This course will present how China improves its air quality greatly in recent years, including sources, formation mechanisms, health impacts, and policies that lead to effective reduction of PM2.5 concentration or haze in Beijing.

-End-

课程号 (Course Number) : 21130017

课程名称 (Course Title) : 发展经济学及其在中国的实践/Development Economics and Its Practice in China

开课院系 (School/Department) : 教务部

学分 (Credits) : 3

授课教师 (Faculty) : 刘承芳 教授 Professor

先修课程 (Prerequisites) : 无。

中文简介:

改革开放40年我国贫困人口减少了近7亿，对全球贫困人口数量减少的贡献超过90%。但截至2018年底我国仍有1660多万农村贫困人口。为何我国能取得如此巨大的减贫成就？新形势下如何实现脱贫攻坚目标？如何理解我国收入差距的变化？如何成功跨越中等收入陷阱，促进经济社会转型？

针对这些问题，本课程将首先介绍发展经济学基本理论，然后从自然区位环境、人口和家庭婚育行为、劳动力就业和迁徙、农村公共物品提供和人力资本培育等角度回顾我国的发展历程，总结发展经验，剖析进一步发展面临的挑战。最后本课程将通过分享授课教师多年来开展的大

量试验研究，与大家共同探索如何通过提升人力资本助力我国成功跨越中等收入陷阱。

本课程旨在丰富学生在发展经济学方面的基本理论知识和实证分析方法，了解该领域的学科进展，脚踏实地的感受中国农村减贫和发展的脉搏。

英文简介 (Course Description) :

This course will cover topics in development economics through the lens of China's experience. Although the main goal will be for students to gain an understanding of concepts in development economics, the course will cover these concepts with a focus on how they relate to the institutional changes and economic policies and that have shaped China's economic emergence as well as the country's current development challenges. Development economics is a broad field and impossible to be comprehensively cover within 32 hours. As such, this course will be a survey of select topics most relevant to China. We will also cover some basic statistical measurement issues and impact evaluation methods important for understanding modern research in development economics. Materials will be covered at the undergraduate level. All lectures and discussions will be conducted in English.

-End-

课程号 (Course Number) : 30340009

课程名称 (Course Title) : 中国民俗与文化/Chinese Folklore and Culture

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 王娟 长聘副教授

先修课程 (Prerequisites) : There is no prerequisite for this course.

中文简介:

本课程主要从神话、民俗、节日、传统食物、民间艺术以及建筑等方面介绍中国人文。课程将重点介绍历史、安全、神圣、家族、神、秩序等中国文化的关键方面。

英文简介 (Course Description) :

The purpose of this course is to introduce the Chinese people and their culture from the perspectives of myths, folktales, festivals, traditional food, folk arts and architectures, and so on. Within these topics, we will focus especially on some of the key themes of Chinese culture such as history, safety, sacredness, family, gods, order, and so on.

-End-

课程号 (Course Number) : 30340028

课程名称 (Course Title) : 转型时期的中国公共政策/Transition and Public Policy in China

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 李永军 副教授 Associate Professor

先修课程 (Prerequisites) : Students are expected to have fundamental knowledge in economics.

中文简介:

本课程为英文授课。

英文简介 (Course Description) :

This is an introductory course about China's public policy in the process of economic, administrative and social transition. We will provide major facts and alternative explanations for various policy problems and corresponding public policies during this transition.

Major topics covered in the course include: public administration and public policies in the centrally planned economy period, major reforms after 1978 (including rural reforms, urban reforms, state-owned enterprise reforms, financial reforms and administrative reforms), current problems and major public policies, etc.

-End-

课程号 (Course Number) : 30340048

课程名称 (Course Title) : 中国传统认同与其现代变迁/Chinese Traditional Identity and its transformation after 1949

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 孙飞宇 长聘副教授

先修课程 (Prerequisites) : None

中文简介:

本课程为中文授课。

英文简介 (Course Description) :

Who is Chinese? How did Chinese people think about themselves? How did this identity change throughout the Revolution? This course will lead you explore several key phenomenon of the identity transformation in 20th century China. The first target of this introductory course is to help students to understand the basic structure of Chinese traditional identity from a perspective of sociology. Based on this understanding, this

course will further the topic into the transformation of Chinese traditional identity after 1949, especially during the Land Revolution and today's Reform and Open policy period. Required readings include both Chinese classical texts and modern sociological/anthropological works. A study tour of The Military Museum of the Chinese People's Revolution and several movies will be arranged for students understanding of this transformation.

-End-

课程号 (Course Number) : 30340052

课程名称 (Course Title) : 中国传统健身、饮食与养生/Chinese Traditional Body Exercise, Diet and Health Preservation

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 王东敏 副教授 Associate Professor

先修课程 (Prerequisites) : No pre-requisites to enroll in this course.

All undergraduates might be the Target audience.

中文简介:

本课程为中文授课。

英文简介 (Course Description) :

It is said there are three things interest westerners about china: food, health preservation, and finance. Those students who enroll in the course of Chinese Traditional Body Exercise, Diet and Health preservation will have chance to experience two of the three hot topics and know how the ancient Chinese people maintain their health via simple but effective body exercise and balance diet. The course will not only introduce and practice the most popular body exercises, such as Taiji, Baduanjin, Wuqinxi, but also the most mystery one, which is frequently appeared in the most popular martial arts novels, such as Yijingjing and Qigong. All the exercises will be demonstrated by the teaching assistants who are experts in that filed. The course will also apply the foundations of Traditional Chinese Medicine, such as basic conceptions, theories, and principles of Health preservation in TCM and reveal Chinese diet, which sometime play important roles as medicine and why. As one of the complementary common methods of health preservation, the acupuncture, moxibustion, and massage will be introduced as well. The course designer wish finally western undergraduates understand the associations between exercise, diet and health in very Chinese health preservation's way.

-End-

课程号 (Course Number) : 30340056

课程名称 (Course Title) : 镜中观花: 中国人的价值观/FLOWER IN THE MIRROR: THE CHINESE VALUES

开课院系 (School/Department) : 教务部

学分 (Credits) : 3

授课教师 (Faculty) : 韩金鹏 副教授 Associate Professor

先修课程 (Prerequisites) :

中文简介:

本课程为英文授课。

英文简介 (Course Description) :

The present course helps investigate the realm of values in which a Chinese approaches his family, love life, friends, education, career, and serious issues like nature, space, time, and inevitably, life and death. Texts cover a wide range of sources including classical and contemporary literature, social wisdoms and folklores, ancient philosophies and latest twitter discussions. In passing, there will also be substantial discussions on how a Chinese waves his lances of values and gropes for his identity in the postmodern maelstrom of information, globalization and political economy. It thus aims at a comprehensive understanding of Chinese values in the comparative light of tradition and individuality and of the Chinese in the eyes of other peoples and cultures and vice versa.

-End-

课程号 (Course Number) : 30340059

课程名称 (Course Title) : 中国古典诗词/Classical Chinese Poetry

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 梅申友 副教授 Associate Professor

先修课程 (Prerequisites) : Some basic knowledge of Chinese is preferable, but not mandatory.

中文简介:

本课程为英文授课。

英文简介 (Course Description) :

As a time-honored genre, poetry enjoyed an unrivalled status in classical Chinese literature. This course offers a survey of classical Chinese poetry by studying its

evolution from about the 11th century B.C to the 12th century AD, when poetry had almost passed the zenith of its development. We shall study its two major forms — Shi poetry & Ci poetry (song lyrics) — and examine their various modes by focusing on the most representative works in history, particularly by ten major poets (Qu Yuan, Cao Zhi, Tao Qian, Wang Wei, Li Bai, Du Fu, Bai Juyi, Li Yu, Su Shi and Li Qingzhao) with due attention to their distinctive life experience and the cultural context of each poem. By the end of the term, students will be enabled to cultivate their capacity for independent appreciation and to catch a glimpse of the breadth, depth and wealth of classical Chinese poetry.

-End-

课程号 (Course Number) : 30340076

课程名称 (Course Title) : 中国现当代小说与电影/Modern Chinese Fiction through Film

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 马乃强 教学副教授

先修课程 (Prerequisites) : The target audience are the international students with various national backgrounds, and the students are supposed to have much interest in modern Chinese fiction and film. The course will be instructed in English, and there are no other pre-requisites for this course.

中文简介:

当前的跨文化教学要求多媒体既是教学手段，又是教学内容。本课程结合小说和电影两种文本，通过文学和多媒体双重艺术形式进行中国文学文化教学。现当代中国文学始于20世纪初期，课程选用现当代中国文学史上的经典短篇、中篇和长篇小说及其改编的电影。本课程教学包括文学背景知识，作家作品介绍，小说文本分析和评论，课后问题讨论和问答，电影改编和赏析等。借助现代多媒体教学手段，本课程致力于提高学生独立思考水平，增强其文化意识、文学修养和信息时代的双重文本读写能力，从而达到我们跨文化教学的最终目的。

英文简介 (Course Description) :

The current cross-cultural teaching requires both teaching with and teaching about multimedia. This course integrates the printed text (fiction) and media text (film), teaching Chinese culture through literature and multimedia. The modern Chinese literature starts from the early 1900s, and the course will cover about ten classical short stories, novellas, and novels of modern China as well as the movies adapted from these literary works. The course instruction mainly includes the knowledge of literary background, introduction of authors and their writings, analysis and comment of fictional works, questions and answers of discussion topics, and comparison and appreciation of adapted films. With the help of literary comprehension and multimedia appreciation, the course aims to improve students' intellectual independence, and hence

enhance their cultural awareness, literary education and contemporary school literacy.

-End-

课程号 (Course Number) : 30340082

课程名称 (Course Title) : “中国崛起”专题研讨课/The Rise of China and Change in World Politics

开课院系 (School/Department) : 教务部

学分 (Credits) : 3

授课教师 (Faculty) : 徐昕(校外) 待定

先修课程 (Prerequisites) :

中文简介:

本课程为中文授课。

英文简介 (Course Description) :

The rise of China is one of the most important and defining themes in contemporary international relations. This seminar course is intended for advanced undergraduate students to examine major issues and topics concerning the rise of China from a broad theoretical perspective, and to engage in the academic discourse and policy debate about implications of China's rise for world politics. The seminar is organized around the central question – will China's rise bring about a fundamental change to the international system? – and roughly divided into three sections: (1) China's rise and the “paradigm change” in world politics; (2) China's quest for identity and order; and (3) implications of China rising for Asia and the world. Under each of these sections, a few specific topics are identified for class discussion.

Students wishing to enroll in this course are expected to have basic knowledge of international relations and China's foreign policy.

-End-

课程号 (Course Number) : 30340094

课程名称 (Course Title) : 中国改革与世界经济/China in the Global Economy

开课院系 (School/Department) : 教务部

学分 (Credits) : 3

授课教师 (Faculty) : 陈绍锋 副教授 Associate Professor

先修课程 (Prerequisites) :

中文简介:

本课程为英文授课。

英文简介 (Course Description) :

- a. To understand the roadmap of Chinese reform and the logic behind it;
- b. To understand the uniqueness of China's transition and its economic implications;
- c. To learn how China interacts with the world;
- d. To build the capability of studying Chinese economy.
- e. Upon completing this course, students are expected to get familiar with China model, China's economic interaction with the outside world, challenges the Chinese economy is facing, as well as the world economic system.

-End-

课程号 (Course Number) : 30340095

课程名称 (Course Title) : 中国经济导论/Introduction to Chinese Economy

开课院系 (School/Department) : 教务部

学分 (Credits) : 3

授课教师 (Faculty) : 季曦 长聘副教授

先修课程 (Prerequisites) : A university-level introductory course in Economics (e.g. Principles of Economics).

中文简介:

本课程为英文授课。

英文简介 (Course Description) :

China's fast economic growth has generated great interest among media, scholars and ordinary people around the world. The aim of this course is to provide students with an overview of the Chinese economy and the detailed understanding of China's economic transition. The topics covered include an introduction of the Chinese economic history, its market oriented transitional process and its implications on economic growth, the urban-rural divide and the reforms of the two sectors, population policy and the related labor market issues, poverty and inequality, fiscal and financial reforms, international trade and foreign investment, etc. Upon completion of the course, students are expected to be familiar with China's economic system, its current economic reforms, and the challenges that the country faces in the twenty-first century.

-End-

课程号 (Course Number) : 30340095

课程名称 (Course Title) : 中国经济导论/Introduction to Chinese Economy

开课院系 (School/Department) : 教务部

学分 (Credits) : 3

授课教师 (Faculty) : 刘民权 教授 Professor

先修课程 (Prerequisites) : A university-level introductory course in Economics (e.g. Principles of Economics).

中文简介:

本课程为英文授课。

英文简介 (Course Description) :

China's fast economic growth has generated great interest among media, scholars and ordinary people around the world. The aim of this course is to provide students with an overview of the Chinese economy and the detailed understanding of China's economic transition. The topics covered include an introduction of the Chinese economic history, its market oriented transitional process and its implications on economic growth, the urban-rural divide and the reforms of the two sectors, population policy and the related labor market issues, poverty and inequality, fiscal and financial reforms, international trade and foreign investment, etc. Upon completion of the course, students are expected to be familiar with China's economic system, its current economic reforms, and the challenges that the country faces in the twenty-first century.

-End-

课程号 (Course Number) : 30340096

课程名称 (Course Title) : 中国传统表演艺术/Arts of Chinese Traditional Performance

开课院系 (School/Department) : 教务部

学分 (Credits) : 3

授课教师 (Faculty) : 张新亚(校外) 待定

先修课程 (Prerequisites) : Students who are interested in performing arts, both oriental and western, and their cultural and technical background, as well as Chinese language.

中文简介:

本课程为英文授课。

英文简介 (Course Description) :

There are many forms of Chinese traditional performance. The styles vary significantly because of the various cultural background and dialect. In this course, a selection of Chinese performing art forms, such as Peking opera and other Chinese traditional operas, Quyi, Chinese folk songs, Chinese traditional music, Chinese dance, are

introduced. They represent the philosophy and aesthetics of Chinese people. These Chinese art forms are also compared with western styles. Their cultural background and technical background (e.g., linguistic and acoustical aspects) are discussed.

-End-

课程号 (Course Number) : 30340100

课程名称 (Course Title) : 意大利文艺复兴艺术/Italian Renaissance Art

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 刘晨(校外) 待定

先修课程 (Prerequisites) : 修过欧洲历史、西方文学史等相关课程的学生可优先考虑

中文简介:

本课程以艺术史为核心，多方位、深度讲述文艺复兴历史及其对现代文明的启示。什么是“文艺复兴”？为解答这一问题，本课程探讨14至16世纪遍布意大利半岛的主要艺术运动及其背后的人文主义思想。主题包括：通识（博雅）教育的起源，古代文学与艺术的复兴，“文艺复兴人”与意大利人文主义，艺术与科学、政治、宗教、神话、哲学的关系等。借助大量视觉材料深度赏析文艺复兴重要艺术家与建筑师的代表作品，包括早期文艺复兴画家马萨乔、雕刻家多纳泰罗、建筑师布鲁内莱斯基，“文艺复兴全才”阿尔伯蒂、列奥纳多、拉斐尔、米开朗琪罗，以及威尼斯画派重要代表人物提香和乔尔乔涅。通过案例分析着重探讨意大利文艺复兴时期绘画、雕塑、建筑等艺术的统一，以及意大利文艺复兴对现当代文明的重要启示。

英文简介 (Course Description) :

What was the Renaissance? This class explores the major artistic currents that swept the Italian peninsula from the fourteenth through the sixteenth centuries in an attempt to answer that question. In addition to considering key themes such as the revival of antiquity, imitation and license, classicism and realism, patronage, individual talents, artistic style, and the art market, we will survey significant works by artists and architects including Masaccio, Donatello, Brunelleschi, Alberti, Raphael, Leonardo, Michelangelo, Titian and Giorgione. Discussions will be focused on the unity of the arts in Renaissance Italy.

-End-

课程号 (Course Number) : 30340103

课程名称 (Course Title) : 《资治通鉴》导读/ZI ZHI TONG JIAN Guide

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 姜鹏(校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

把《资治通鉴》放入时代背景，讨论它的诞生机缘、文本特征及其思想内涵，并进一步探讨历史书写的本质。

英文简介 (Course Description) :

This course puts ZI ZHI TONG JIAN in the context of its time, discusses its chance of birth, textual features and ideological connotations, and further explores the nature of historical writing.

-End-

课程号 (Course Number) : 30340105

课程名称 (Course Title) : 《三国志》与三国史/San Guo Zhi and the History of the Three Kingdoms

开课院系 (School/Department) : 教务部

学分 (Credits) : 2

授课教师 (Faculty) : 仇鹿鸣(校外) 待定

先修课程 (Prerequisites) : 无

中文简介:

除了简要介绍《三国志》编纂过程及价值之外，课程的主干部分将以文献研读为主，每次课程将围绕一个主题选择一至两篇相关的传记进行精读。同时选读部分经典论文，介绍最新的学术动态及考古发掘成果。学生以文本阅读为核心，对三国历史有较系统的掌握，了解文史考据的基本方法。

英文简介 (Course Description) :

In addition to a brief introduction to the process and value of the compilation of the San Guo Zhi , the main part of the course will focus on the study of the literature, with one or two relevant biographies selected for close reading on a theme in each session. A selection of classic papers will also be read to introduce the latest research progress and archaeological excavations. Students will have a more systematic grasp of the history of the Three Kingdoms, with textual readings as the core, and an understanding of the basic methods of literary and historical research.

-End-

课程号 (Course Number) : 30340106

课程名称 (Course Title): 中国现当代小说选读/Selected Readings of Chinese Modern Fiction

开课院系 (School/Department): 教务部

学分 (Credits): 2

授课教师 (Faculty): 金理(校外) 待定

先修课程 (Prerequisites): 无

中文简介:

本课程围绕现当代文学史上的青年形象与青春想象、选择现具有代表性的中短篇小说作品进行深入讲解，训练读者对文学语言和文学美感的感受能力和把握能力，理解作品中隐藏的多层次的内涵，进而发现人性的丰富。也使学生对当代社会的文学、文化与社会发展，以及文学与社会的复杂互动有切实理解。领会文学在今天现实境遇中的意义。

英文简介 (Course Description):

This course focuses on the youthful imagination in the history of modern and contemporary literature, and selects representative fiction to provide an in-depth explanation, training the reader's ability to perceive literary language and literary beauty, to understand the multi-layered connotations hidden in the works, and thus to discover the richness of human nature. It also provides students with a practical understanding of the literary, cultural and social development of contemporary Chinese society, and the complex interaction between literature and society. Appreciate the significance of literature in today's situation.

-End-