

## 2014 年暑期学校课程目录及介绍

(共 118 门次)

\*A 类课程仅对本专业或本校学生开放。

\*B、C 类课程对校外开放。

序号	课号	课程名称	班号	开课系所	授课教师 1	课程类型	备注
1	00333050	<a href="#">金工实习</a>	1	工学院	邹如强	A	
2	00333170	<a href="#">认识实习</a>	1	工学院	李恒	A	
3	00333390	<a href="#">生物医学工程实习</a>	1	工学院	段小洁	A	
4	00333550	<a href="#">生物材料和生物相容性</a>	1	工学院	Tracy CUI	A	英文, Globex 项目
5	00333670	<a href="#">中国经济: 科技、增长与全球联系</a>	1	工学院	韩平畴 Susan Mays	A	英文, Globex 项目
6	00333680	<a href="#">材料界面及塑性变形:从理论到工程</a>	1	工学院	韩平畴 Louise Priester	A	英文, Globex 项目
7	00333690	<a href="#">今日中国-传统与改革</a>	1	工学院	韩平畴 Jing Luo	A	英文, Globex 项目
8	00333700	<a href="#">智能材料与适应性系统</a>	1	工学院	韩平畴 Gregory Washington	A	英文, Globex 项目
9	00333710	<a href="#">计算流体力学及其在多相流中的应用</a>	1	工学院	韩平畴 Eric CLIMENT	A	英文, Globex 项目
10	00333720	<a href="#">应用有限元技术</a>	1	工学院	韩平畴 Kamran Behdinan	A	英文, Globex 项目
11	00333730	<a href="#">生物医学中的机器学习</a>	1	工学院	韩平畴 Hagit Shakay	A	英文, Globex 项目
12	00333740	<a href="#">纳米医药入门:基本概念与应用</a>	1	工学院	韩平畴 C.H.Jonathan Choi	A	英文, Globex 项目
13	00431740	<a href="#">可再生能源与低碳社会</a>	1	物理学院	肖立新	B	提交论文
14	00432206	<a href="#">量子力学专题</a>	1	物理学院	B. Rosenstein	B	英文, 最后一次课收作业

15	00432216	<a href="#">量子力学 (II)</a>	1	物理学院	钱志新	B	考试时间: 第五周周二下午
16	00437150	<a href="#">物理学暑期专题研讨</a>	1	物理学院	刘玉鑫	A	
17	01130910	<a href="#">生物学野外实习</a>	1	生命科学学院	饶广远	A	
18	01137020	<a href="#">人类遗传学: 连锁分析</a>	1	生命科学学院	魏丽萍	A	英文, 7 月 14-18 日上课
19	01139700	<a href="#">癌发生的分子和细胞学机制</a>	1	生命科学学院	张文霞	A	英文
20	01231420	<a href="#">综合地质实习</a>	1	地球与空间科学学院	魏春景 张进江	A	
21	01231440	<a href="#">区域地质实习</a>	1	地球与空间科学学院	季建清	A	
22	01233170	<a href="#">地震概论</a>	1	地球与空间科学学院	赵克常	B	7 月 24 日考试
23	01233380	<a href="#">地震学野外实习</a>	1	地球与空间科学学院	周仕勇	A	
24	01235260	<a href="#">3S 野外综合实习</a>	1	地球与空间科学学院	田原	A	
25	01430870	<a href="#">普通地质实习</a>	1	地球与空间科学学院	张志诚	A	
26	01430870	<a href="#">普通地质实习</a>	2	地球与空间科学学院	黄宝春	A	
27	01431440	<a href="#">珠宝鉴赏与珠宝文化</a>	1	地球与空间科学学院	王长秋	B	7 月 24 日考试
28	01533240	<a href="#">人文地理专业实习</a>	1	城市与环境学院	冯健 陈彦光	A	
29	01533290	<a href="#">美术实习</a>	1	城市与环境学院	沈文权	A	
30	01533300	<a href="#">城乡地域空间认知实习</a>	1	城市与环境学院	阴劫	A	
31	01535130	<a href="#">野外生态学</a>	1	城市与环境学院	刘鸿雁	A	
32	01536840	<a href="#">环境科学野外综合实习</a>	1	城市与环境学院	刘文新	A	
33	01537530	<a href="#">普通地质实习</a>	1	城市与环境学院	刘耕年	A	
34	01539200	<a href="#">植物土壤实习</a>	1	城市与环境学院	刘鸿雁	A	
35	01539340	<a href="#">地貌实习</a>	1	城市与环境学院	莫多闻	A	
36	01630246	<a href="#">电影与心理 (心理压力应对篇)</a>	1	心理学系	易春丽	B	7 月 23 日交期末论文
37	01630580	<a href="#">人际沟通分析学</a>	1	心理学系	杨眉	B	7 月 22 日交期末论文
38	01630660	<a href="#">工程心理学</a>	1	心理学系	何吉波	B	7 月 15 日提交期末论文
39	01630670	<a href="#">听视觉言语加工整合及其脑机制</a>	1	心理学系	李量	B	8 月 10 日提交期末论文

40	01832910	<a href="#">视频编辑</a>	1	新闻与传播学院	严富昌	B	
41	01833410	<a href="#">新媒体传播导论</a>	1	新闻与传播学院	许静 洪家春	B	
42	01833610	<a href="#">跨文化系列课程：跨文化知识与能力的评估及训练</a>	1	新闻与传播学院	何惶 王异虹	B	
43	01833620	<a href="#">跨文化系列课程：国际领导力评估与培养</a>	1	新闻与传播学院	何惶 王异虹	B	
44	01833660	<a href="#">跨文化系列课程：构建全球公民的跨文化传播能力</a>	1	新闻与传播学院	王异虹	B	英文，上课时间：7 月 10 日-7 月 23 日上午 9:00-12:00
45	01833670	<a href="#">跨文化系列课程：表演艺术与跨文化传播解读</a>	1	新闻与传播学院	王异虹	B	
46	01833680	<a href="#">跨文化系列课程：跨文化传播的体现</a>	1	新闻与传播学院	王异虹	B	英文
47	02030330	<a href="#">民俗学</a>	1	中国语言文学系	陈泳超	B	考试方式：写论文
48	02131810	<a href="#">伊斯兰教与现代世界</a>	1	历史学系	咎涛	B	
49	02332311	<a href="#">佛教导论</a>	1	哲学系	姚卫群	B	最后一次课随堂开卷考试
50	02333180	<a href="#">东西方哲学比较</a>	1	哲学系	韩林合 牟博	B	中英文授课，期末随堂论文 7 月 25 日
51	02431710	<a href="#">亚太概论</a>	1	国际关系学院	陈峰君	B	第五周周二上课时间在教室交论文
52	03032360	<a href="#">中国文化史</a>	1	信息管理系	王锦贵	B	7 月 10 日 3~4 节考试，考试方式开卷
53	03130400	<a href="#">教育社会学思考</a>	1	社会学系	钱民辉	B	论文
54	03530190	<a href="#">日本文化艺术专题</a>	1	外国语学院	滕军	B	考试时间：7 月 11 日 10、11 节，开卷考试
55	03835400	<a href="#">美国短篇小说与电影</a>	1	英语语言文学系	马乃强	C	英文
56	03835400	美国短篇小说与电影	2	英语语言文学系	马乃强	C	英文

57	03835510	<a href="#">希腊与希伯来哲学</a>	1	英语语言文学系		C	英文
58	03835510	希腊与希伯来哲学	2	英语语言文学系		C	英文
59	03835520	<a href="#">英美文学概况</a>	1	英语语言文学系		C	英文
60	03835520	英美文学概况	2	英语语言文学系		C	英文
61	03835730	<a href="#">美国文化概览</a>	1	英语语言文学系		C	英文
62	03835730	美国文化概览	2	英语语言文学系		C	英文
63	03835730	美国文化概览	3	英语语言文学系		C	英文, 面向中学生 7 月 7 日开课
64	03835730	美国文化概览	4	英语语言文学系		C	英文, 面向中学生 7 月 7 日开课
65	03835830	<a href="#">西方文化选读</a>	1	英语语言文学系		C	英文
66	03835830	西方文化选读	2	英语语言文学系		C	英文
67	03835860	<a href="#">英语公众演讲</a>	1	英语语言文学系		C	英文
68	03835860	英语公众演讲	2	英语语言文学系		C	英文
69	04031740	<a href="#">马克思主义基本原理概论</a>	1	马克思主义学院	黄小寒	A	考试时间: 7 月 28 日 8:00
70	04130030	<a href="#">太极拳</a>	1	体育教研部	刘林青	A	随堂考试
71	04130030	太极拳	2	体育教研部	刘林青	A	随堂考试
72	04130040	<a href="#">健美操</a>	1	体育教研部	刘林青	A	北医教师: 王东宇, 随堂考试
73	04130040	健美操	2	体育教研部	刘林青	A	北医教师: 王东宇, 随堂考试
74	04130050	<a href="#">乒乓球</a>	1	体育教研部	闵东旭	A	随堂考试
75	04130050	乒乓球	2	体育教研部	闵东旭	A	随堂考试
76	04330881	<a href="#">基本乐理与管弦乐基础</a>	1	艺术学院	马清	B	
77	04332711	<a href="#">西方美术史田野调研</a>	1	艺术学院	丁宁	A	学生通过选拔后方能选课, 上课时间听老师安排。
78	04630710	<a href="#">认知科学与经济学</a>	1	元培学院	杨英锐	B	

79	04630720	<a href="#">推理与决策</a>	1	元培学院	杨英锐	B	
80	04830810	<a href="#">可编程逻辑电路设计(I)</a>	1	信息科学技术学院	蒋伟	A	时间老师安排
81	04831430	<a href="#">文科计算机基础(上)</a>	1	信息科学技术学院	刘志敏	A	手动选课
82	04831440	<a href="#">文科计算机基础(下)</a>	2	信息科学技术学院		A	手动选课
83	04831830	<a href="#">大规模数据处理/云计算</a>	1	信息科学技术学院	闫宏飞 彭波	B	
84	04831840	<a href="#">职业规划与领导力发展</a>	1	信息科学技术学院	边凯归	B	
85	04831950	<a href="#">生物特征识别</a>	1	信息科学技术学院	李文新	B	与香港张大鹏合开
86	04832330	<a href="#">工程科学研究方法</a>	1	信息科学技术学院	陈文新	A	
87	04832600	<a href="#">创新工程实践(实习)</a>	1	信息科学技术学院	张海霞 尚俊杰 陈江 黄岩谊 李戈 黄文彬	A	
88	04832770	<a href="#">算法博弈论</a>	1	信息科学技术学院	王立威	A	外教开课
89	04832800	<a href="#">集成电路静电放电保护方法</a>	1	信息科学技术学院	王源	A	
90	04832810	<a href="#">纳米光电子的研究前沿与应用</a>	1	信息科学技术学院	胡薇薇	B	
91	04832840	<a href="#">函数式编程语言 Haskell 导论</a>	1	信息科学技术学院	熊英飞	A	英文, 外教开课
92	06237020	<a href="#">社会经济调查理论方法与实践</a>	1	国家发展研究院	赵跃辉	B	
93	12639010	<a href="#">综合社会实践实习</a>	1	城市与环境学院	楚建群 林坚 冯长春 柴彦威	A	
94	12739020	<a href="#">环境化学野外实习</a>	1	环境科学与工程学院	梁宝生	A	
95	12739030	<a href="#">文献计量学与研究趋势分析</a>	1	环境科学与工程学院	何玉山	B	
96	18050150	<a href="#">营养与疾病</a>	1	医学部教学办	张玉梅	B	最后一次课 3-4 节开卷考试
97	18050180	<a href="#">人体免疫与健康养生</a>	1	医学部教学办	王月丹	B	最后一次课 3-4 节开卷考试
98	30330500	<a href="#">ACM/ICPC 竞赛训练</a>	1	北京大学教务部	郭炜	B	英文。时训练做题表现和竞赛名次评定成绩
99	30340015	<a href="#">比较哲学: 中国和西方</a>	1	北京大学教务部	Roger T. Ames	C	英文。第 2 周开课, 第 4 周周三 7-8 节。考核: 平时作业

							+论文。
100	30340028	<a href="#">转型时期的中国公共政策</a>	1	北京大学教务部	李永军	C	英文。考核方式：论文+平时表现
101	30340030	<a href="#">丝绸之路：文化和物质交流史</a>	1	北京大学教务部	陆扬	C	英文。考核：平时表现+论文
102	30340035	<a href="#">中国因素：应对中国的全球挑战</a>	1	北京大学教务部	梁薇	C	英文。考核：平时作业+课堂表现
103	30340038	<a href="#">中国的政治与社会</a>	1	北京大学教务部	陈曦	C	英文。考核：小测验+论文+课堂表现
104	30340039	<a href="#">中国经济专题</a>	1	北京大学教务部	季曦 秦雪征	C	英文。考核：平时表现+期中测试+期末论文
105	30340044	<a href="#">新中国：文艺与社会</a>	1	北京大学教务部	蒋洪生	C	英文。考核：平时表现+小论文+期末报告
106	30340045	<a href="#">中国地方政府与政治</a>	1	北京大学教务部	张长东	C	英文。考核：课堂表现+平时作业+期末报告
107	30340048	<a href="#">中国传统认同与其现代变迁</a>	1	北京大学教务部	孙飞宇	C	英文。考核：课堂表现+平时作业+期末报告
108	30340049	<a href="#">“中国崛起”专题研讨课</a>	1	北京大学教务部	徐昕	C	英文。考核：课堂表现+平时作业+论文
109	30340052	<a href="#">中国传统健身、饮食与养生</a>	1	北京大学教务部	卢福泉	C	英文。考核：课堂表现+平时作业+论文
110	30340053	<a href="#">中国的宪法和政治体系</a>	1	北京大学教务部	段德敏	C	英文。考核：课堂表现+平时作业+论文
111	30340054	<a href="#">中国改革与世界经济</a>	1	北京大学教务部	陈绍锋	C	英文。考核：课堂表现+小测试+论文
112	30340055	<a href="#">中国经济专题</a>	1	北京大学教务部	王章卫	C	英文。考核：课堂表现+平时作业+论文

113	30340056	<a href="#">镜中观花：中国人的价值观</a>	1	北京大学教务部	韩金鹏	C	英文。考核堂表现+平时作业+论文
114	30340057	<a href="#">全球视野下的中国历史与文化</a>	1	北京大学教务部	高艳丽	C	英文。考核：课堂表现+平时作业+论文
115	30340058	<a href="#">当代中国的社会问题与政策应对</a>	1	北京大学教务部	高翔	C	英文。考核：课堂表现+平时作业+论文
116	30340059	<a href="#">中国古典诗词</a>	1	北京大学教务部	梅申友	C	英文。考核：课堂表现+平时作业+论文
117	30340060	<a href="#">国际人力资源管理：东方、西方和新兴市场</a>	1	北京大学教务部	杨妮妮	C	英文。考核：课堂表现+平时作业+论文
118	30340061	<a href="#">中国社会的转化</a>	1	北京大学教务部	严海蓉	A	中文。考核：测验+参观报告 40 %+课堂参与
119	61030030	<a href="#">朋辈心理辅导</a>	1	心理学系	刘海骅	A	7 月 31 日交期末论文

\*A 类课程仅对本专业或本校学生开放。

\*B、C 类课程对校外开放。

## 金工实习 Metalworking Practice

邹如强

课程编号 00333050 学分 3

先修课程: 无

### 课程简介

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。

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.

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## 认识实习 General Practice

李恒

课程编号 00333170 学分 3

先修课程: 能源与资源工程原理、普通化学、工程流体力学、热学

### 课程简介

认识实习是在完成基础课程的学习后所进行的实践环节。通过让学生进入到典型工厂、企业了解生产环节, 进一步巩固加深课堂所学过的理论知识, 并为后续相关课程的学习奠定基础。同时达到开阔学生视野, 了解行业内的最新发展及趋势, 并且激发兴趣与热爱专业等目的。认识实习的地点是北京及临近地区的新能源企业、污水处理厂、钢铁厂和环保企业等。



The General Practice is an important training course for students who have finished basic courses of the Energy and Resources Engineering major. In this training course, students will have opportunities to learn in-situ the operation processes of typical enterprises. It helps students enhance their understandings on the knowledge taught in class, and lays a solid basis for the study of more advanced courses. It also broadens the horizon of the students, and inspires their interests in the major. The course will be taught in Beijing and its vicinity, covering enterprises in the fields of new energy, wastewater treatment, steel & iron, and environmental protection.

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## 生物医学工程实习 Biomedical Engineering Practice

段小洁

课程编号 00333390 学分 3

先修课程：高等数学、大学物理、分子与细胞生物学、解剖学

课程简介

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。

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.

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## 生物材料和生物相容性 Biomaterials and Biocompatibility

Tracy CUI

课程编号 00333550 学分 3

先修课程：无

课程简介

本课程旨在培养学生更好地理解生物材料。课程将书本和临床相关的生物材料联系在一起，同时也会介绍多种医用材料，如聚合物、金属、陶瓷，并关注这些材料的合成、表征、结构-性能关系及其表面改性。本课程将从不同角度讨论其生物相容性，如蛋白吸附、异物反应、免疫及炎症反应等。最后，课程里也会介绍临床应用的具体例子。

This course is designed to introduce students to a more advanced understanding of biomaterials. Throughout the course ties are made between the topic of study and clinically relevant biomaterial performance. The course will introduce various biomaterials such as polymers, metals, and ceramics with the focus on their synthesis, characterization, structure-property relationship and surface modification. The biocompatibility issues of biomaterials will be discussed from different aspects such as protein adsorption, foreign body reaction, immune and inflammatory response etc. Finally, examples of clinical applications will be given.

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## 中国经济：科技、增长与全球联系 China Economy: Technology, Growth and Global Connections

课程号：00333670 学分：3

先修课程：无

课程简介

本课程将阐述中国在全球化氛围中自 1978 年以来的经济及科技发展，将考察其在经济及社会问题上的主要趋势，包括收入增长趋势、劳动力情况、外资投资情况、公私所有制经济情况。课程将展现中国在教育、医疗、家庭经济、环境、法律等层面所获得的进步及挑战。在所有这些话题中，课程将考虑中国独一无二的历史文化，并结合科技和全球化合作在发展中的地位。课程最后一星期，学生将前往长三角地区（包括上海）访问一些与科技相关的企业与组织。

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.

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## 材料界面及塑性变形：从理论到工程 Interfaces and Plastic Deformation in Materials: From Theory to

## Engineering

课程号: 00333680 学分: 3

先修课程: 无

### 课程简介

界面是晶体材料的一种重要特征，它们对材料的各类性能（尤其是塑性变形能力）有着重要的影响。界面的结构及缺陷可以从多尺度来描述：宏观尺度（几何形状、结晶学、能量）、微观尺度（点缺陷及线缺陷）、纳米尺度（原子结构）。课程将会介绍基于材料机械性能的多尺度研究方法，包括多晶体中的界面行为。

Interfaces are a main feature of crystalline materials. They play a key role in most of their properties, especially in their plastic deformation. The interface structures and defects will be described at different scales: macroscopic (geometry, crystallography, energy), microscopic (point and linear defects) and nanoscopic (atomic structure). A multiscale approach of the mechanical properties of the interfaces will be also presented, including the behaviours of interface ensembles in polycrystals.

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## 今日中国-传统与改革 China Today — Tradition and Modernization

课程号: 00333690 学分: 3

先修课程: 无

### 课程简介

课程将介绍中国自 1949 年以来的历史及社会经济变化，结合国家的意识形态的转变，旨在寻找一种关于人民生活的变化和国家其它主要变化的深度的理解方式。课程要求文章评论、学术研究以及课程报告。

The course introduces China's historical and socio-economic changes since 1949, in conjunction with the country's ideological transition. The goal is to seek an in-depth understanding of the changes in people's lives, as well as some of the country's main challenges. Critique of article, research, and presentation are required.

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## 智能材料与适应性系统 Smart Materials and Adaptive Systems

课程号: 00333700 学分: 3

先修课程: 无

### 课程简介

模拟并控制智能材料, 包括压电陶瓷, 压电聚合物, 形状记忆合金, 电流变和磁流变液体。课程将着重介绍这些智能材料在现实世界中的应用。

Modeling and control of smart materials to include: piezoceramics, piezopolymers shape memory alloys, electrorheological and magnetorheological fluids. Applications to real world systems will be emphasized.

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## 计算流体动力学及其在多相流中的应用 Computational Fluids Dynamics and its Application to Multiphase Flow

课程号: 00333700 学分: 3

先修课程: 无

### 课程简介

多相流体是工业界常见的现象 (如石油中的颗粒、液滴、气泡; 核工业及能源转换)。数值计算方法已经被证明是一个非常有效的工具, 它可以帮助工程师和研究人员理解连续两相流体间复杂的相互作用以及独立成分之间的分散问题, 并依此建模。本课程将介绍基于分散两相的数值模拟方法, 以及计算流体力学中的进阶话题, 包括颗粒悬浮、泡沫液体和液滴喷雾等知识点。课程也将介绍 Navier-Stokes 方程的经典数值求解方法, 从而介绍其多相流体 (分散、双向耦合、流体力学相互作用) 中的应用。课程将会训练学生进行一些经典的重要现象的编程。此外在项目中, 学生将使用 Matlab 来模拟颗粒悬浮流体、气泡及液滴分散等现象。

Multiphase flows are ubiquitous in the industry (particles, drops and bubbles in petroleum, nuclear engineering and energy transformations). The numerical simulation has proven to be an efficient tool for engineers and researchers to understand and model the complex interplay between the continuous phase and the dispersion of discrete elements. The purpose of lectures is to introduce numerical simulations of dispersed two-phase flows and advanced topics in computational fluids mechanics, including particle suspensions, bubbly liquids and droplet sprays. Lectures on classical numerical approaches for solving Navier-Stokes equations will be introduced, together with their applications to multiphase flows (dispersion, two-way coupling, modelling of hydrodynamic interactions). Students will be trained to program some classic examples of important phenomena. Students will work on projects using Matlab to simulate particle suspension flows, bubble and

droplet dispersion.

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## 应用有限元技术 Applied Finite Element Technology

课程号: 00333720 学分: 3

先修课程: 无

课程简介

计算机辅助的工程方法已被广泛用于与现实生活相关的工程应用与工业中。在工程分析及设计中, 诸如有限元方法等技术是非常普适且不可或缺的。这些方法现已广泛运用于所有的工程技术分支, 包括结构分析、固液相分析等领域。在该入门课程中, 学生将初步认识机械系统分析及设计过程广泛采用的计算方法, 并讨论基于有限元方法的机械工程建模问题, 此外, 将有机会运用有限元方法于实际项目中。

The computational aided engineering methods are extensively used in real-life engineering applications and industry. Techniques such as finite element method are very versatile and frequently indispensable part of engineering analysis and design. These methods are now widely used in practically all branches of engineering including the analysis of structures, solids, and fluids. In this introductory course, you will develop an understanding for the basis of the commonly used computational methods in mechanical systems analysis and design. Modeling of mechanical engineering problems using finite element method will be discussed. You will also have an opportunity to use finite element for projects.

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## 生物医学中的机器学习 Machine Learning in Biomedicine

课程号: 00333730 学分: 3

先修课程: 无

课程简介

本课程是一门进阶课程, 为对生物医学工程、计算模拟及两者交叉领域有兴趣的学生而准备。旨在介绍基本的计算算法——这也是现代计算生物医学的基础和核心。课程将介绍机器学习的核心知识点, 如概率、统计建模、算法等, 同时也将注重这些方法的实际应用, 这是计算生物医学的基石。

An advanced course for students interested in biomedicine, computing and their intersection, as well as in biomedical engineering. The course aims to demonstrate

how fundamental computational and algorithmic methods form the basis and the core of modern methods in computational biomedicine. It presents hard-core topics in machine learning, probability, statistical modeling and algorithms, while focusing on their practical application as building blocks for computational biology and medicine.

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## 纳米医药入门:基本概念与应用 Introduction to Nanomedicine: Basic Concepts and Application

课程号: 00333740 学分: 3

先修课程: 无

### 课程简介

课程由两大部分组成。第一部分涵盖了纳米技术的一些基本概念,包括纳米结构和生物工程材料的制备:如量子点, DNA, 自组装和功能性。第二部分将讨论纳米技术在生物医学研究领域的应用(如诊断、成像、靶向给药),同时也将讨论实验室研究向临床治疗方案的转化。

This course consists of two parts. The first half covers basic concepts in nanotechnology and tools for fabricating nanostructured and bioengineered materials: quantum dots, DNA, self-assembly, and functionalization. The second half discusses applications of nanotechnology in biomedical research (i.e., diagnostics, imaging, and targeted drug delivery), and discusses the translation of laboratory discoveries to therapies applicable in clinical trials.

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## 可再生能源与低碳社会 Renewable energy and low-carbon society

课程号: 00431740 学分: 2

先修课程: 自然科学及人文科学的常识

### 课程简介

化石能源成就了现代社会的进步,但是也给人类社会带来了很大的压力。一方面,化石能源的日益紧张对社会经济可持续发展带来了压力;另一方面,化石能源的不断消费,产生了更多的温室气体。为了寻求社会可持续发展的模式,可再生能源的发展日益成为国际社会的首选目标。从我国目前能源生产及能源消费的实际状况出发,大力发展新能源和可再生能源是我国未来的能源发展战略要求。《中国的能源状况与政策》白皮书中指出,可再生能源是中国能源优先发展的领域。为了适应我国节能减排和发展低碳经济的新形势,本课程计划通过讲授,让学生掌握我国的再生能源发展规划以及面临怎

样的机遇与挑战，为什么要走低碳社会之路，国际上低碳经济的发展形势及经验，为此中国应该如何面对目前发展与减排的矛盾，以及能源结构与人口的特殊情况，以制订适合中国经济可持续发展的战略决策。本课程内容主要包括介绍我国的能源结构，全球气候变化的趋势、影响与对策，低碳经济发展的国际经验，中国实行低碳社会的发展战略及技术路线图与 2020 年的中期目标及 2050 年的长期目标，以及中国的可再生能源发展规划及现代光学在开发可再生能源中的作用。

The fossil energy has brought not only progresses but also a high pressure for modern society. Fossil energy, on the one hand, the increasing tension of supplying has brought a high pressure on the sustainable socio-economic development; the other hand, the continuous consumption of fossil energy has been producing more and more greenhouse gases. In order to find a model for sustainable development of the society, the development of renewable energy is increasingly becoming a choice for the international community. Considering from our current energy production and energy consumption of the actual situation, great efforts to develop new energy and renewable energy is our future energy development strategy requirements. "China's Energy Conditions and Policies" White Paper pointed out that renewable energy is a priority to the development of China's energy field. In order to adapt to China's energy conservation and the development of low-carbon economy, this course will let students to master the country's renewable energy development plan what kind of opportunities and challenges for China to face, why low carbon society we should choice, international situation and experience on the development of low carbon economic. How should China to face the contradictions of development and reducing the emissions, energy and special population structure, how to make the strategic decision for sustainable development of economy in China. The content of this course include introduction of China's energy structure, the trend of global climate change, impacts and countermeasures, the international experience of the development of low-carbon economy, China's development strategy and technology roadmap to implement a low-carbon society with the 2020 mid-term goals and 2050 long-term goals, as well as China's renewable energy development planning and modern optical role in the development of renewable energy.

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## 量子力学专题 Advanced topics in Quantum Mechanics

课程号：00432206 学分：2

先修课程：量子力学

课程简介

目前，国内现有的量子力学课程着重讲授非相对论性量子力学的基本理论和方法，对其路径积分形式的表述和实际具体的计算方法、解决具体实际问题的应用等大多不予深入讨论、甚至根本不提及，对于从量子力学到量子场论的过渡大多也不予讨论。该专题课程针对解决这些问题而开设，从而帮助同

学打下从量子力学的形式理论过渡到开展具体物理研究的坚实基础。本课程主要讲授非相对论性量子力学在描述一些基本量子现象的应用（比如能谱、量子动力学、散射理论、隧穿理论、AB 效应和 Berry 相位等）和量子力学中的路径积分、格林函数及其它一些基本问题的实际计算方法（比如半经典近似、变分法、数值计算方法、一些精确可解模型、微扰的费曼图展开理论等等）。课程将采用新的理论框架（路径积分和其相关计算技术）来描述量子现象，从而为同学们进一步学习量子多体理论等后续课程打下扎实的理论基础。该课程将在突出清晰的物理概念的同时，强调具体计算技能（包含解析和数值两方面），并结合当前的研究实例来展开。

The course provides a deeper understanding of general phenomena in systems that behave essentially quantum mechanically and practical introductions to methods used to describe the behavior. The phenomena discussed include the nature of spectrum, quantum dynamics, scattering and tunneling. In addition to a survey of exactly solvable problems, a variety of approximations are introduced: from perturbation theory, semiclassical, variational to numerical simulation. General tools of the Green's functions and path integrals are also introduced and utilized.

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## 量子力学（II）Quantum Mechanics (II)

课程号：00432216 学分：2

先修课程：量子力学 I

### 课程简介

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。

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.

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## 物理学科暑期专题研讨 Selected Topics on Physics

课程号: 00437150 学分: 3

先修课程: 无

课程简介

参加国际国内著名大学或研究院所举办的物理学、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 45 学时, 记 3 学分。

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## 生物学野外实习 Field Observation of Biology

课程号: 01130910 学分: 1

先修课程: 无

课程简介

暂缺

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## 人类遗传学: 连锁分析 Human genetics: linkage analysis

**课程号：01137020 学分：1.5**

**先修课程：无**

### 课程简介

遗传学是研究生物遗传和变异规律的科学。人类遗传学是遗传学中一个重要的分支学科，专门探讨研究人类遗传和变异规律的一门科学。连锁分析是基于家系研究的一种方法，是单基因遗传病定位克隆方法的核心。它是利用遗传标记在家系中进行分型，再利用数学手段计算遗传标记在家系中是否与疾病产生共分离。连锁分析是利用连锁的原理研究致病基因与遗传标记的关系。根据孟德尔分离率，如果同一染色体上的位点不连锁，那么遗传标记将独立于致病基因而分离，与致病基因位于同一单倍体或不同单倍体的机会各占一半，否则表明连锁的存在。连锁分析在实际研究中，尤其是对于单基因疾病，证实可靠有效。

Genetics is a discipline of biology, is the science of genes, heredity, and variation in living organisms. Human genetics is the study of inheritance as it occurs in human beings. Linkage analysis is the tendency of genes that are located proximal to each other on a chromosome to be inherited together during meiosis. Genes whose loci are nearer to each other are less likely to be separated onto different chromatids during chromosomal crossover, and are therefore said to be genetically linked.

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## 癌发生的分子和细胞学机制 Biology of Cancer

**课程号：01139700 学分：2**

**先修课程：无**

### 课程简介

本课程定位于阐明癌症形成的过程和讨论用分子遗传学的方法揭示癌变发生的分子和细胞机制，这一研究将有助和推动癌症的预防、诊断和治疗。本课程力图使学生对癌生物学的进展和如何开展这一领域的研究获得基本的了解。

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## 综合地质实习 Excursion for Integrative Geology

**课程号：01231420 学分：2**

先修课程: 暂缺

课程简介

暂缺

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## 区域地质实习 Excursion for Regional Geology

课程号: 01231440 学分: 2

先修课程: (1) 地球科学导论; (2) 地质学原理; (3) 矿物学、岩石学 (结晶岩石学、沉积地质学); (4) 构造地质学 (structural geology); (5) 第四纪地质与地貌学。

课程简介

暂缺

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## 地震概论 Introduction to Seismology

课程号: 01233170 学分: 2

先修课程: 无

课程简介

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。

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.

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## 地震学野外实习 Field training on Seismology

课程号: 01233380 学分: 2

先修课程: 无

### 课程简介

地球物理学是一门建立在观测资料基础上, 通过对大量观测资料的分析, 发现新的现象、产生新的理论, 从而不断发展的学科。本课程的目的: 学生通过野外观测与资料处理的实习, 加深对理论知识的理解, 另一方面培养学生开展野外科研工作及获取资料、解释资料的能力, 为其进一步在地球物理学及相关领域开展实际科研工作奠定基础。主要内容包括: 地震观测台阵的设计及野外临时地震台的建立; 野外数字地震观测资料的收集及初步处理; 野外大震现场考察及发震构造、震源机制 的现场分析。

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## 3S 野外综合实习 Practice on RS, GIS and GPS

课程号: 01235260 学分: 1

先修课程: 《地理信息系统概论》; 《遥感概论》; 《地球科学导论》

### 课程简介

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。

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.

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## 普通地质实习 Physical Geology Field Trip

**课程号：01430870 学分：1**

**先修课程：**该课程为《地球科学概论（二）》的后续课程，是为加深对课程有关内容的理解而设立的实践性的教学内容，因此若参与本课程的学习，必须先完成《地球科学概论》的学习。

### 课程简介

以现代地质学理论为指导，以北京地区地质为基础，紧紧围绕《普通地质学》、《地球科学概论》课程内容，通过典型的野外地质现象介绍和认识，巩固普通地质学 的课堂教学内容，加深对课程有关内容的理解，进行野外基本技能的训练，培养观察地质现象的能力，为后继专业课打下一下的基础。本课程对地球与空间科学学院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，强调地质基本概念、基本知识和基本技能训练。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；认识实习中所见到的有代表性的三大岩类，并学会区别它们；认识基本的地质现象，如地层、褶皱、断裂等；初步建立实习中观察过的地层发育顺序及其特点；学会利用归纳、分析的方法，初步建立地质思维模式，根据观察到的各种地质现象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。

This course is a geologic elementary education for the first year students of School of Earth and Space Sciences. Physical geology field trip is a unique summer school course that will provide students with a real field experience in Beijing. In the field, the basic geological concepts, basic knowledge of geology, and basic skill method will be emphasized. The course is divided into five major parts: (1) understanding of basic concepts and theories associated with Geology, studying how to use the most commonly field equipment and holding necessary skills for the collection of geological data; (2) Identifying and describing the igneous, sedimentary, and metamorphic rocks present in the outcrop in your field notes; (3) Measuring any rock structures or fabrics, including bedding, foliation, fault surfaces, fold hinges, etc., and record those measurements in your notebook; (4) Measurement of stratigraphic sections; (5) a brief report on the essentials for writing and illustrating based on observations and measurements in the field. Geological fieldwork can be both fun and challenging. It provides the chance to work outdoors under a range of conditions and to explore our natural world. Working in the field contributes a crucial element to our knowledge and understanding of Earth processes. It is important to continuously think about the meaning of the rock relationships that you are seeing, because this will guide what you should do next and where to find it.

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## 珠宝鉴赏与珠宝文化 Jewelry Appreciation and Jewelry Culture

课程号: 01431440 学分: 2

先修课程: 无

### 课程简介

珠宝玉石是大自然数百万年孕育并奉献给人类的宝贵精华,是人类认识自然的重要对象之一。本课程利用多媒体等现代教学手段,通过对珠宝玉石主要品种的基本特点、评价鉴别、美学欣赏以及我国玉器发展和玉雕艺术的讲授、讨论,使学生们掌握、了解珠宝玉石的基本概念、主要种类、加工工艺、评价鉴别方法、美学赏析,熟悉古玉器在中国历史文化中的地位、各个历史时期玉器制作的风格、工艺特点及其与历史背景和生产发展水平的关系,了解我国玉雕艺术的特点和现代珠宝文化。本课程由王长秋博士,崔文元教授,王时麒教授三位老师讲授。

As a precious essence born in nature for millions of years, jewelry is one of important objects in understanding of human to nature. In this course, using modern teaching means, basic characteristics of main varieties, identification and evaluation, aesthetic appreciation of jewelry and the development of Chinese jade and jade carving art will be taught and discussed, in order to enable students to acquire the basic concepts of jewelry, main gem varieties, processing technology, identification and evaluation methods, aesthetic appreciation, and to understand the historical and cultural position of Chinese ancient jade, style and process characteristics of jade production during each historical period and their relationships to the historical background and the level of development of productive forces, and to know the features of Chinese jade carving art and modern jewelry culture.

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## 人文地理专业实习 Practice of Human Geography

课程号: 01533240 学分: 1

先修课程: 无

### 课程简介

采用国际通行的办学理念,积极推进理论与实践相结合的教育模式。根据人文地理学的教学特点,训练学生按照“选题→调查→分析→成果”的逻辑思路,应用所学专业 专业知识,对实际问题进行系统而全面的研究。通过野外实习,锻炼学生的野外信息收集能力、实习线路设计能力、野外数据采集仪器使用能力和野外信息初步处理 能力等,最终形成区域综合分析能力。

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## 美术实习 Fine Arts Practice (Field Sketching)

课程号: 01533290 学分: 1

先修课程: 美术与制图 (Drawing and Drafting)

### 课程简介

美术实习是城市规划专业本科生必修环节, 是《美术与制图》课程的延续和深化, 目的在于培养城市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, 兼顾设计色彩的学习。课程主要分三部分: 一是建筑素描, 为期五天。素描对象选取大学校园内的历史建筑、现代建筑、风景园林和建筑小品; 二是城市与风景速写, 写生对象更为多样化, 选取历史遗址、现代广场建筑、城市历史街区等, 为期四天; 三是设计色彩练习, 使用计算机辅助学习, 为期一天。所有实习地点均在北京市城区和近郊。

“Fine Arts Practice (Field Sketching)” is the compulsory course for urban planning undergraduate students. It is a continuation and extension of the course “Drawing and Drafting” for the same intentions. One intention is to improve students` ability of observation and analysis of spatial form, and enhance their artistic attainment; and another is to develop the skills of performance of space form, learn the graphical language representing the spatial form accurately. In addition, freehand techniques and basic chromatics are required. The course consists of three parts: The first part takes five days for building sketch, Historic buildings, modern architecture, landscape architecture and architectural pieces in campus are selected; the second part takes four days for urban landscape quick-sketches, Sketch objects are more diversified, including palace historic site, the construction of the modern plaza, historic district, etc.; The third part takes one day for computer-aided color design practice. All sketching sites are chosen in Beijing city.

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## 城乡地域空间认知实习 Regional Science: Practice of Theories and Models

课程号: 01533300 学分: 1

先修课程: 无

### 课程简介

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。

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## 野外生态学 Field Ecology

**课程号：01535130 学分：2**

**先修课程：植物学（下） 土壤学 生态学（II）**

### 课程简介

野外生态学生态学专业必修的野外实习课程，本课程以河北坝上北京大学生态系统观测站为基地，沿几个重要的地理因子（气候、植被、土壤）的梯度设计了多条线路，旨在通过讲授和实习相结合，培养学生观察野外生态现象，掌握野外调查方法以及提出科学问题的能力。在实习中，学生通过对八条实习路线上的不同地理、植被、土壤格局的观察和相关数据的获取，深入认识格局的特征及内在机制，提出科学问题和假说，并在条件允许的情况下对这些问题和假说进行回答和验证。在获取的数据的基础上，综合分析实习区的地理和生态现象。在这一过程中，学生需要综合运用知识和数据，对具有地区特色的问题进行思考和分析，并选择合适的题目撰写论文。

Field Ecology is designated to train students the skills of observing, measuring and recording ecological phenomena, and the ability of putting forward scientific questions. It is obligatory for students majoring in Ecology. The field course is based on the Peking University Saihanba Ecological Observatory in Hebei Province. Eight field routes are designed to following the gradients of four main determinants in this region: climate, vegetation, soil and human disturbance. The students are required to record vegetation, soil data along the eight routes in groups, leading by the teacher and teaching assistants. The field data are integrated for testing the hypothesis put forward in the field observations. Each student has to submit a final report in the form of academic paper with part of the field data and their knowledges in ecology.



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## 环境科学野外综合实习 Field Practice of Environmental Sciences

**课程号: 01536840 学分: 1**

**先修课程: 普通化学**

### 课程简介

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、环境风险评估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。

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.

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## 普通地质实习 Field Practice of Physical Geology

课程号: 01537530 学分: 1

先修课程: 地球概论

### 课程简介

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。

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## 植物土壤实习 Field Course of Plant and Soil Geography

课程号: 01539200 学分: 2

先修课程: 植物学（下） 土壤学

### 课程简介

本课程是地理科学专业必修实习课程，与生态学专业的野外生态学同时进行。课程以河北坝上北京大学生态系统观测站为基地，沿几个重要的地理因子（气候、植被、土壤）的梯度设计了多条线路，旨在通过讲授和实习相结合，培养学生观察野外植物地理和土壤地理现象，掌握野外调查方法以及提出科学问题的能力。在实习中，学生通过对八条实习路线上的不同地理、植被、土壤格局的观察和相关数据的获取，深入认识格局的特征及内在机制，提出科学问题和假说，并在条件允许的情况下对这些问题和假说进行回答和验证。在获取的数据的基础上，综合分析实习区的地理和生态现象。在这一过程中，学生需要综合运用知识和数据，对具有地区特色的问题进行思考和分析，并选择合适的题目撰写论文。

Field Course of Plant and Soil Geography is combined with the course Field Ecology. It is designated to train students the skills of observing, measuring and recording vegetation and soil geographical phenomena, and the ability of putting forward scientific questions. It is obligatory for students majoring in Geographical Science. The field course is based on the Peking University Saihanba Ecological Observatory in Hebei Province. Eight field routes are designed to following the gradients of four main determinants in this region: climate, vegetation, soil and human disturbance. The students are required to record vegetation, soil data along the eight routes in groups, leading by the teacher and teaching assistants. The field data are integrated for testing the hypothesis put forward in the field

observations. Each student has to submit a final report in the form of academic paper with part of the field data and their knowledges in ecology.

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## 地貌实习 Field Practice of Geomorphology

课程号: 01539340 学分: 2

先修课程: 地貌学

### 课程简介

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和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。

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 maintains, plain, rivers, alluvial fans, and different types of typical loess landforms. There are also lots of phenomena of neotectonic movements and neoteconic landforms, such as fault scarps, fault grabens or horsts, volcano cones, basaltic lava platforms 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 idea 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,

descript 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.

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## 电影与心理（心理压力应对篇）Film and Psychology (Managing Stress)

课程号：01630246 学分：2

先修课程：无

课程简介

由于现代化的进程，人们生活脚步在加快，来自生活中各个方面的压力对人的身体健康会产生不良的影响。本课程将通过电影的形式，介绍各种生活事件对人产生的压力，包括亲人死亡、离婚、分居、搬家等等。同时在理论上介绍一些压力或应激方面的知识，以及一些简单的应对方法，促进心理健康。

Along with modernization, the pace of people's life is getting faster and faster and people suffer from enormous pressure of one kind or another. Therefore, it has become an indispensable ability for modern people to have some basic psychology knowledge. This course intends to allow students to learn more, via the media of movies, about the knowledge of stress and the management of stress. Major life changes may cause stress, such as Death of spouse and family members, divorce, marriage, change in residence and school, etc. The course will introduce the theory of stress and some effective coping strategy to promote the mental health.

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## 人际沟通分析学 Transactional Analysis

课程号：01630580 学分：2

先修课程：无

课程简介

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。

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.

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## 工程心理学 Engineering Psychology

课程号: 01630660 学分: 1

先修课程: 无

课程简介

这门课将为您提供工程心理学的入门知识。工程心理学，又称人因工程（Human Factors）或者应用认知心理学（Applied Cognitive Psychology），是将心理学的知识和研究方法应用到实际问题，如驾驶，飞行，医疗，人机交互，IT 等行业的具体问题。工程心理学旨在提高人类工作绩效，降低错误，提高用户体验等。课程适合于心理学、计算机科学、工业设计、艺术设计等专业学生或者用户体验研究员。

The goal of Engineering Psychology course is to provide an overview introduction to engineering psychology, that is, applying psychological knowledge and research moods to improve human performance and reduce human errors in applied settings, such as, driving, aviation, health, human computer interaction and user experience etc.

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## 听视觉言语加工整合及其脑机制 Audiovisual speech processing

课程号: 01630670 学分: 2

先修课程: 心理学、神经科学、信息科学的任何课程

课程简介

人类的各种感觉系统之间有复杂而密切的整合。听觉系统和视觉系统在言语加工过程中也有密切的功能整合。本课程将系统地讨论这两个认知加工系统在言语加工过程中的功能联系以及相应的机制。共分为三个主要部分：（1）第一部分讲述听觉和视觉的言语加工是如何整合起来的；（2）第二部分集中讨论听觉 视觉言语整合的脑机制；（3）第三部分介绍听、视整合在言语产生过程中的作用；（4）第四部分讨论听、视言语整合的机器加工。对选修本课程同学的评估分三个部分：（1）对所分配文章的讲解和问题回答；（2）在课堂上问题讨论活动中的参与；（3）根据自己的兴趣所选写的期末论文。

In humans there are tight relationships between various sensory modalities. The auditory system and the visual system functionally integrate in speech processing. This course will explain how these two systems are involved in speech processing together. There are three major issues delivered by this course: (1) The first part of it is largely devoted to audiovisual (AV) speech perception and to two main questions concerning human AV performance: how and where (in the brain) auditory (A) and visual (V) signals combine to access the mental lexicon; (2) the second part of the book is dedicated to neural mechanism underlying AV speech processing; (3) the third part presents the neural mechanisms underlying AV speech processing; (4) the fourth part discusses some of the latest developments in AV speech processing by machines, particularly in AV speech recognition and synthesis. The evaluation of this course is based on (1) the literature reading and Q & A, (2) activity in class discussion, and (3) the final essay.

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## 视频编辑 Video Editing

课程号：01832910 学分：2

先修课程：广播电视节目制作

### 课程简介

通过本课可以了解视音频非线性编辑的基本概念、基本流程、剪辑方法、特效合成和输出，熟悉在 Final Cut Studio 中的 Final Cut Pro (FCP), Compressor, DVD Studio Pro 等常用非线性编辑软件基本操作流程。了解视音频设备的接口与性能，掌握视频素材上载、视频剪辑、声音特效、字幕特效、色彩校正、包装合成，视频输出 等实践操作的技能。

This lesson help to students understand the basic concepts of the non-linear editing, the basic process of video editing, editing methods, effects compositing, capture and output. We will learn and master the basic grammar of visual language and editing logic rules, skilled use of non-linear editing commonly software in Final Cut Studio: Final Cut Pro (FCP), Compressor, DVD Studio Pro and others. We will understand the interface and performance of video and audio equipment, master upload video clips, video editing, sound effects, subtitles, special effects, color correction, packaging and synthesis, video output and other practical skills.

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## 新媒体传播导论 Introduction to New Media Communication

课程号: 01833410 学分: 2

先修课程: 无

### 课程简介

从人人，微博到微信，从网络到手机，新媒体对我们生活的影响正在日益增大。我们应该如何更深入的理解全民织围脖这样的社会现象。本课程希望介绍一些关于新媒体的理论，从麦克卢汉，英尼斯，波兹曼，雪莉·特克尔，曼纽尔·卡斯特尔到 Richard Ling，并且辅以案例分析来帮助大家理解新媒体对我们日常生活的影响。从印刷，摄影，电话，广播，电影，直到电视，每一个新媒体出现时，都曾给社会带来革命性的变革，并引起学界无数的理论思考。如今，虽然媒体的发展进入到了互联网和手机的时代，但既有的理论仍然可以帮助我们有效剖析正在出现并且还将继续出现的各种新媒体和各种新鲜现象。除了理论分析之外，本课程还将邀请新浪微博和手机网络公司的负责人前来座谈，细致讲解时下热点现象。希望完成本课程之后，学生可以掌握新媒体演变的历史，了解时下主要的新媒体公司如谷歌，推特，新浪微博，微信，人人，并且可以使用基本理论来分析新媒体如何影响机构，家庭，及个人的生活。

This course has been designed to help undergraduate students get familiar with basic theories about new communication technologies' impact upon society. Each new medium of communication, including printing, photography, telephone, radio, movies, television, and cable services, upon its birth provokes belief that it will change the society. Now, it is the turn of the internet and mobile phone. This course will review the evolution and the social implication of the medium with a special focus on social media and mobile communication. As a result of the class, the students are expected to be able to: summarize the history of new media, describe the process of media convergence, discuss the basic new media theories, and identify the core players in new media industry, such as Facebook, Twitter, YouTube, Weibo, Wechat, Renren, etc., and understand the ways they are reshaping our everyday lives.

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## 跨文化系列课程：跨文化知识与能力的评估及训练 Intercultural Training: Gateway to Cultivating

### Intercultural Competence

课程号: 01833610 学分: 2

先修课程: 无



## 课程简介

在当今复杂多变的全球化社会里，文化差异或被视为障碍，或被视为机遇。持“障碍”看法的人为避开问题而格外关注“不”做什么；而将文化差异当作潜在资源的 人们关注的是“做”什么来强化群体互动。当人们时常认为存在“交流问题”时，却不知道怎样分析它的真正含义。通过了解与文化相关的各种交流方式，个人能更容易地看到问题所在。如今生活在全球化社 会中的每个人不久都会认识到应对误解的方式方法在不同文化中有着巨大的差异。不论什么工作引发了这个问题，解决的过程似乎让它更令人不快。一些文化倾向于 直接的，更西方化的交流方式，而另一些文化将其视为有进攻性的，效率低下的方式。我们大多数人对自身文化的对话方式十分熟悉，但很少有机会探索其他文化的 不同形式。这个研习班的目的是了解那些我们不熟悉的交流方式，从丰富的真实案例中学习有效的交流技巧与方法。同时，通过文化调整与适应能力评估，个人了解 到自我能力的现有水平，进而有针对性的制定个人发展计划，提高在多元文化环境中工作与交流的成功率。 本课程的授课方法引进美国密集培训模式，除介绍跨文化基础理论和实践方法外，学员将有大量时间在规定的情景模拟训练中（小组项目设计，讨论，以及对矛盾事 例的观摩与反馈等）实践 所学内容。该方法在美国的各项培训中广泛使用，被证明是非常有效的应用式学习方法。 本课程共分两部分进行：第一部分，重点在介绍跨文化相关知识和个人能力的评估与训练；第二部分，侧重交流的知识与技巧的学习与实践。 本课程采用中英文交替教学。具有初中级以上英语水平并从事 / 参加各种国际教育交流项目的中外留学生，访问学者及涉外项目管理人员，企事业单位外派雇员，人 力资源海外项目开发及管理人员均可参加。

In today's complicated global community, we can view cultural difference either as a frustrating obstacle or as an opportunity. Those who view culture as a barrier may become preoccupied with what NOT to do in order to avoid problems. Those who recognize the potential resources that cultural differences bring focus on what TO do to enhance our interactions. While people often suspect that there is a "communication problem," they rarely know how to assess what that really means. By understanding culturally related communication patterns, individuals can more readily determine what may have gone wrong. All of us who live in today's global society soon come to realize that ways to handle misunderstandings differ greatly across cultures. Whatever task inspires the problem, the process used for resolving it frequently seems to make it even more uncomfortable. While some cultures prefer the direct, more western style, others consider this offensive and counter productive. Most of us are familiar with forms of dialogue in our own culture, but we rarely have the opportunity to explore styles that are used across cultures. This workshop will explore those styles, teach new skills, and suggest effective approaches to not only understanding these differences, but also bridging them. This two-day intensive course (15 hours) will focus on evaluating and training intercultural competence of adjustment and adaptation necessary to those who are studying in or working for educational and business settings, to improve their effectiveness when in a cross-cultural context. The methodology and tools that the course will employ include lecturing, group discussion/project, cultural assimilator, and responding to a critical incident, as well as conducting the Inventory of Intercultural Effectiveness Scale (IES), accompanying with a follow-up evaluation. The course follows the two following parts: The Part I focus more on the introduction of intercultural general knowledge and individual competence assessing (IES) and training; In Part II, practice on intercultural communication knowledge and skills will be intensive. The language used in the course will be both Chinese and English. So English proficiency at basic level is required for those



who enroll in the course.

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## 跨文化系列课程：国际领导力评估与培养 Intercultural Training: Global Competence Inventory and Training

课程号：01833620 学分：1

先修课程：无

### 课程简介

全球领导力是一个比较新的概念。它是于上世纪 80 年代，随着商业，教育，旅游等领域里呈现出越来越强的国际合作趋势，以及信息产业的快速发展，人们注意到 在复杂多变的全球化环境下，组织和个人的适应力与领导能力已成为事业发展和成功所不可避免的一个重要因素；越来越多的跨国企业人力资源部门，国际合作组织 和机构已将全球领导力作为企业和人员培训重点及聘用的考察标准之一。这个现实环境不仅给国家和组织，也给个人的发展带来了机遇和挑战。一方面，当国家和文化地位在国际社会中日益提升，国际经验积累和跨文化能力培养是个人生存与发展的迫切需要；另一方面，个人在跨国，跨地区和跨文化组织中运用全球领导力对团队或群体产生积极影响，是全球化环境中组织发展的必然要求。从 90 年代开始，西方国家对成功领导者及其能力的研究越来越多，美国因其国内多文化社会环境及其多方位国际合作，在这方面的研究与测评工具开发已成熟，非常值得我们借鉴。本课据此设计为三个部分：第一，我们会详细介绍一些前沿研究成果，特别是那些对我们个人生活和事业十分重要的具体的领导能力及其培养方法，例如，个人领导力，全球意识和视野，抗压能力，灵活应变能力，解决问题能力，多元文化团队管理能力等等；另一方面，我们也看到，在一个国家适用的某种领导方式在另一个国家却很失败，其中很大的一个原因是文化差异。因此，在第二部分，我们会比较不同文化在领导力问题上的共识与差别，从许多真实，有趣但寓意深刻的故事中发现适合我们自身需要的培养方式和目标。任何能力的培养都要从了解自我开始。为此，在第三部分，学员将有机会对个人能力进行测量，了解现阶段所处的水平，并尝试制定相应的个人发展计划。总之，全球领导力概念不仅是对领导者，也对每个人在全球化社会中的生存与发展十分重要。因此，在介绍概念的同时，课堂辩论，挑战模拟，案例观摩等丰富的教学活动会帮助理解所学到的知识，以及运用方法。

The concept of Global Leadership emerges when the rapid increase of cross-national cooperation in business, education and tourism, as well as the remarkable development of information industry in 1980's. Encountering more unfamiliar, complicated and unexpected changes in the globalized environment everyday, people have realized more clearly that the competence of adaptation and leadership has appeared to be an important issue to everybody. Human Resource Departments of those cross-national enterprises, varieties of international institutions and organizations have taken individual's global competence as one of their focuses in employment and training. Undoubtedly, globalization has brought countries, organizations and individual great opportunities, as well as challenges. Since 1990's, the studies on effective leadership have increased in many Western countries, especially the US, due to its domestic multicultural environment and broad

international cooperation. The course will first, introduce its definitions, and primary theories, especially those related to our practice in reality, including competences and developing methods, for example, personal leadership, global views, resilience, flexible adaptation, problem solving, management of multi-cultural teams, etc. On the other hand, we also notice that a leadership accepted commonly in one country is not necessarily a good one in another. One of the reasons is cultural difference. Therefore, in the second module, we will see the leadership competence globally identified and compare those different in diverse cultures. Many real, interesting and meaningful cases will be used to help find what we need and what we should develop. Any competence is developed starting with self-awareness. In Module Three, students will have the opportunity to measure what competence they have had, and what level they are at, in order to make a pertinent individual development plan. In all, global leadership is related to not only leaders and organizations, but also individuals. In class, students will not only learn the concepts, but also experience various practical teaching /learning methods such as group discussion, scenario simulation, video watching, plan designing, etc, to help understanding and practice. The course will include three (3) modules: Module One, General introduction of Global Leadership; Module Two, Comparison of leadership competence in different cultures; and Module Three, Assessment (GCI) and individual development plan. The language used in the course will be both Chinese and English. So English proficiency at basic level is required for those who enroll in the course.

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## 跨文化系列课程：构建全球公民的跨文化传播能力 Constructing Intercultural Communication for Global Citizens

课程号：01833660 学分：2

先修课程：无

课程简介

构建全球公民的跨文化传播能力 本课程主要从两个方面讲解构建全球公民的跨文化传播能力。第一部分：全球商务和领导力 第二部分：国际/多元文化教育。

Introduction to the course topic, Constructing Intercultural Communication for Global Citizens Faculty: Milton J. Bennett, Ph.D. Intercultural Development Research Institute, USA & Europa University of Milano Bicocca, Italy “Communication” is the mutual creation of meaning and “culture” is the coordination of meaning and action in a group. Thus, “intercultural communication” is the mutual creation of meaning across cultures. This means that intercultural communication is the mechanism whereby people of different groups perceive and try to make sense of one another. While there is no guarantee that people will be respectful of the

differences they encounter in this process, it is certainly a criterion of good communication that people seek to understand the intentions of each other in non-evaluative ways. For that reason, intercultural communication incorporates particular strategies that encourage us to attribute equal humanity and complexity to people who are not part of our own group. The course will from the two parts explain how to Construct Intercultural Communication for Global Citizens Part One: Global Business Management/Leadership Part Two: International/Multicultural Education.

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## 跨文化系列课程：表演艺术与跨文化传播解读 Hermeneutics on the Art of Performance in Intercultural communication

课程号：01833670 学分：2

先修课程：无

### 课程简介

由于编码和解码的不同，艺术表演的传播效果在跨文化传播中自然产生差异。艺术表演的语言意义通过翻译发生不同符号的指代变化，言语语在跨文化表演的视域中 存在“文化折扣”；在文化对外传播中，艺术表演的跨文化传播效果对提升文化传播力发展具有重要意义。本课程主要以理论和模式分析为主，并以解读实际案例为辅，从二个模块的五个方面进行授课。 模块一：文化传播中的言语语和非言语语 （一） 文化传播中的言语语 （二）文化交流中的非言语语 模块二：舞台表演艺术与跨文化传播 （一）舞台表演艺术与“文化折扣” （二） 演艺产业跨文化传播的几种模式（1） （三） 演艺产业跨文化传播的几种模式（2）。

In intercultural Communication the art of the performance can have a different communication effect, because of the different coding and decoding by the receivers of the audiences. The language from the translation changes the indicator of the symbol and the non-verbal communication can be “deducted during the intercultural communication”. The effective effect of the intercultural communication by performance can increase the cultural communication competency. The course will from Two Models of five parts elucidate the theories and models of performance, moreover will analyze the cases of the performance in the way of intercultural communication. Model 1 Verbal and non-verbal communication in Intercultural Understanding Model 2 Performance and Intercultural Communication: theories and cases.

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## 跨文化系列课程：跨文化传播的体现 Embodied intercultural communication

课程号：01833680 学分：1

先修课程：无

### 课程简介

跨文化传播中的体现意义在不同的文化中有不同的意义，因此理解跨文化传播的体现概念和在认知自我和他者时十分重要。本课程将从以下几个方面讲解阐释跨文化传播中的体现意义。 1. 学习体现概念的理论演化 2. 反映文化认同和他的体现的构建 3. 成为日常经验的文化自觉 4. 接触不同视域的对 抗 5. 理解文化体现的他者 6. 整合身体认知和文化的传播（人和语境） 7. 学习有目的地转变文化框架的策略 8. 应用体现策略发展移情 9. 运用体现发 展种族相对主义。

The embodiment concept in intercultural communication is one of the keys to understand self and others. The course will from the following steps to understand it in intercultural communication perception. 1. Learning the theoretical evolution of the embodiment concept 2. Reflecting on the construction of cultural identity and its embodiment? 3. Becoming culturally aware of the daily experience of the body? 4. Contacting resistance to alternative perception? 5. Understanding other people`s embodiment of culture 6. Integrating body`s awareness into communication with different cultures (people and contexts)? 7. Learning strategies for intentionally shifting perceptual cultural framing 8. Applying embodiment strategies for developing empathy 9. Using embodiment for developing ethnorelativism.

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## 民俗学 Folklore

课程号：02030330 学分：2

先修课程：无

### 课程简介

介绍民俗学的各种类型，如神话、传说、故事、笑话、谚语、谜语、歌谣、民间游戏、民间服装、民间节日、饮食习俗，民间建筑、民间美术等，推广民俗学知识，介绍中国传统文化。

This course introduces to students the various genres of folklore, including myth, legend, folktale, joke, proverb, riddle, folksong, folk game, folk costume, folk festival, diet custom, folk architecture, folk art, etc. The course provides students with a brief knowledge of folklore, as well as an opportunity to study and appreciate the traditional Chinese culture.

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## 伊斯兰教与现代世界 Islam and Modern World

**课程号：02131810 学分：2**

**先修课程：世界近代史**

### 课程简介

本课程是为本科高年级同学开设的选修课。伊斯兰教是当代国际政治的重要因素，了解伊斯兰世界的历史与现状，是我们认识二十一世纪世界发展状况的一个重要条件。本课程将从历史的角度讲述伊斯兰教与现代世界的关系。同时，也将就与现代历史有关的重要专题展开讨论，如土耳其模式问题、世俗主义问题等。本课程主要包括如下内容：伊斯兰教的基本知识、伊斯兰文明史、中东近现代史、世俗化问题、当代伊斯兰复兴等。另外，在本课程中还将涉及中国的伊斯兰教问题。

This course is a general introduction to the relationship between Islam and modern world. Islam is a key element in the contemporary international stage. To know about the history and present situation of the Islamic world is a precondition to understand the trend of development of 21st century. This course aims at providing the basic knowledge for students in the following aspects: religious knowledge of Islam, history of the Islamic civilization, Turkish model of secularism, modern history of Middle East, the problem of secularization, contemporary revivalism of Islam. Besides, the situation of Islam in China will also be discussed.

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## 佛教导论 An Introduction to Buddhism

**课程号：02332311 学分：2**

**先修课程：无**

### 课程简介

本课为介绍在世界文化发展中有重要影响的佛教基础知识的课程。课程侧重讲解佛教的产生、传播历史、文献、戒律、禅定、哲学思想等。整个课程分为八讲，每讲介绍佛教知识的一个重要方面或重要内容。本课论述的佛教基础知识以印度佛教和中国佛教为主，涉及的主要内容又以佛教的历史和教义为主，包括重要人物、流派、理论、事件、文化特色等。教学目的是使学生对佛教有一个概括的了解，把握佛教文化的核心内容和精髓。为进一步深入了解或研究佛教打下基础，提高听课学生的人文素质。

This course is to give a brief introduction to the basic knowledge of Buddhism which has an important effect in the world culture development. The course is mainly to narrate Buddhist emergence , spread history, literature, discipline , meditation and philosophy thinking, etc. The whole course is divided into eight lessons. Each lesson introduces an important aspect of knowledge or important content of Buddhism. This course mainly gives the basic knowledge of Indian Buddhism and Chinese Buddhism , in connection with Buddhist history and doctrines, including important figures, schools, theories, events and cultural characteristics, etc. The teaching aim of the course is to help the students to have a general understanding of Buddhism, and grasp Buddhist cultural core and marrow,so as to lay a foundation for their further study or research of Buddhism,and to raise their humanistic literacy.

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## 东西方哲学比较 Comparison between Eastern and Western Philosophy

课程号: 02333180 学分: 2

先修课程: 中国哲学 / (当代) 西方哲学课程

### 课程简介

本课程为中西比较哲学专题课, 着重讨论: (1) 关于中西比较哲学研究的若干方法论问题; (2) 先秦中国哲学相关思想资源如何能够在语言哲学和逻辑领域对当代哲学发展做出贡献; (2) 当代哲学的相关思想资源如何能够在语言哲学和逻辑思想加强和深化我们对中国古代哲学相关文本的理解和哲学解释。 讨论论题包括如下内容 (暂定): (1) 比较哲学方法论; (2) 论《易经》意象语言结; (3) 公孙龙“白马非马”论题与当代指称理论; (4) 孔子正名思想的 语言哲学意义; (5) 道家论语言、思想与自然; (6) 《墨经<小取>》逻辑思想与当代逻辑思想。

This is a special-theme course in comparative philosophy east & west with the following focuses: (1) methodological issues in comparative studies of Chinese-Western philosophy; (2) how it is possible for relevant resources in pre-Qin Chinese philosophy to contribute to development of contemporary philosophy in the areas of philosophy of language and logic; (3) how relevant resources in contemporary philosophy can enhance and deepen our understanding and philosophical interpretation of relevant texts of ancient Chinese philosophy concerning philosophy of language and logical thought. The topics include these: (1) methodology of comparative philosophy; (2) on the structure of the ideographic language of the Yi-Jing text; (3) Gongsun Long's "White-Horse-Not-Horse" thesis and contemporary theory of reference; (4) on Confucius' doctrine of name rectification; (5) Daoism on language, thought and nature; (6) Mohist logical thought in "Xiao-Qu" and contemporary logical thought.

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## 亚太概论 Introduction to Asia-Pacific Outline

课程号: 02431710 学分: 2

先修课程: 无

### 课程简介

通过本课学习, 使学员对亚太地区基本问题有较全面的了解, 并提高学员对国际问题特别是对亚太问题的分析能力。 本课共分共十二讲(亚太概念、亚太特征、亚太地位、亚太世纪、亚太经济发展、亚太经济合作与组织、东亚经济合作、现代化进程与模式、东亚模式、印度模式、亚太安全形势、朝鲜半岛、领土争端), 每讲 2 学时左右。

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## 中国文化史 History of Chinese Culture

课程号: 03032360 学分: 2

先修课程: 大学本科程度, 或相当于大学本科程度。

### 课程简介

“中国文化史”——第一批列入北京大学全校素质教育的通选课。本课程是一门比较全面、系统反映中国传统文化的基础课。她揭示传统文化产生的背景、特点与意义, 纵向再现数千年中国灿烂文化轨迹, 横跨人文科学、社会科学、自然科学诸多领域一般层面的基本知识。本课程涉及面广, 知识点多, 含金量较高。适用于文、理、语言各专业学生选修。通过学习本课程, 可以比较全面、系统地领略中国传统文化的博大精深, 可以拓宽知识视野、完善个人知识结构, 为以后在特定领域的进一步发展, 提供必备的文化修养及基础知识。为配合中国文化史教学活动, 本课教师特别在北京大学立项, 研制出了《中国文化史》CAI 课件, 直接服务于教学实践。该课件通过图片、朗读、音乐、知识单元检索以及链接相关学术讲座等形式, 对教学互动和进一步改善学习环境, 起到重要作用。

History of Chinese Culture is a foundation course which reflects the long history of Chinese culture overall and systematically. The course announces the background, features and significance of Chinese traditional culture, chronologically reappear the splendid culture formation path and the achievements of Chinese people in thousands of years, stretch over the humanities, social science and natural science. By learning the course, intensive learning of Chinese traditional culture and a broad cultural field could be gotten in a rather short time, which provides necessary culture accomplishment for an individual to get further development in a particular field. In order to coordinate History of Chinese Culture teaching, the professor set up the project in Peking University and made CAI courseware in



2005.The CAI courseware comprehends pictures, reading, music, unit retrieval, and relative lectures linking which animates the classroom teaching and the learning environment is improved.

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## 教育社会学思考 The Thinking of Sociology of Education

课程号: 03130400 学分: 2

先修课程: 无

### 课程简介

教育社会学采用社会学的原理对教育事实进行思考和解释, 研究涉及到以下三个层面: 1、宏观层面: 教育社会学是研究教育与社会关系的学科, 这种关系包括教育与社会亚系统的关系、以及教育与社会变迁的关系 2、中观层面: 主要研究学校自系统结构与变革、制度规范的建立、学校与社区的关系、学校与家庭的关系、课程与知识的控制、教育与阶层化过程 3、微观层面: 主要研究学校组织中的人际构成、角色分工、人的社会化与个性发展的关系、学校组织中的人际互动、教育对个体的影响和作用。

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## 日本文化艺术专题 The Special Topic on Japanese Culture and Art

课程号: 03530190 学分: 2

先修课程: 无

### 课程简介

作为世界文明有机组成部分的日本文明, 虽然在古代受到中国文明的影响甚大, 但日本原初的文明仍然是自发形成的。而且, 经过历史的洗练和提升, 形成了自己民族文化的特质。在我们探究最具有日本民族文化特色的现象时, 日本的文化艺术就显得格外的引人注目。而了解日本的文化艺术是我们认识日本的捷径。本课程将从历史学, 民俗学, 艺术学的角度讲述日本文化艺术的精华部分借以阐明日本审美意识的特征。课程内容包括: 1 日本的艺术(绘画、庭园、建筑、工艺) 2 日本的戏曲(雅乐、能乐、狂言、歌舞伎) 3 日本的艺道(茶道、花道、香道) 为帮助同学们理解以上内容, 在本课的前两讲将特别简明讲授日本的地理自然、日本的历史、日本的民俗信仰、日本的岁时习俗等日本学的基础课程。在适当的情况下现场展示日本茶道, 花道, 香道, 能乐(每学期只展示其中的 1 种) 艺术, 以帮助同学们来更好地理解日本的文化艺术及审美意识特征。本课程还将在每年暑假组织部分同



学赴日本考察日本的历史文化，以帮助同学加深对课程内容的理解。

Although Japanese civilization which is one part of world civilization was greatly affected by Chinese civilization in ancient times, its original form is the spontaneous formation. Moreover, it has formed its own characteristics of national culture through the historical baptism. The Japanese culture and arts seems to be extraordinarily compelling, when we are probing the national cultural phenomenon in Japan. So understanding the Japanese culture and arts is a short cut to know something about Japan. This course covers the essential part of Japanese culture and arts from history, folklore and artistic, in order to clarify the characteristics of the Japanese aesthetic sense. The course content is as follows: 1 Japanese art (painting, gardens, architecture, technology) 2 Japanese drama (Gagaku, Noh, Kyogen, Kabuki) 3 Japanese art (Sado, Ikebana, Kado) To help students understand the above content, the first two lectures will particularly explain the basis of the geographical nature, the history and the Japanese folk customs and beliefs in Japan. A live demonstration of the Japanese Sado, Ikebana, Kado and Noh (per semester only 1) will be showed to help students to understand the characteristics of Japanese cultural and aesthetic sense better . A part of the students will also be organized every summer holiday to go to Japan to study Japanese culture and history, in order to help them deepen their understanding of course content.

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## 美国短篇小说与电影 The American Short Story through Film

课程号：03835400 学分：2

先修课程：无

课程简介

《美国短篇小说与电影》是面向非英语专业本科学生开设的大学英语专题课程。当前的语言教学要求多媒体既是教学手段，又是教学内容。本课程结合短篇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英语教学。课程选用美国文学史上的经典短篇小说及其改编的电影，短篇小说每篇 10-20 页，电影每部 30-50 分钟，比较适合现代多媒体课堂教学。本课程教学包括文学背景知识，作家作品介绍，短篇小说分析和评论，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英语听说读写多方面的综合水平，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，从而达到我们英语教学的最终目的。

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## 希腊与希伯来哲学 Comparing Greek & Hebrew Philosophy

**课程号：03835510 学分：2**

**先修课程：无**

#### **课程简介**

本课程由外教授课，将重点讲授古希腊及希伯来哲学。学生将学习影响希腊和希伯来思想的主要观点，将讨论这些观点对当代社会的影响。学生将阅读希腊希伯来名著中的经典段落，学习如何比较这些哲学观点。本课程将根据学生的课堂表现、课堂陈述和考试等方面评定学生成绩。

This course will expose students to the philosophy of the ancient Greek and Hebrew people. Students will learn about major ideas that influenced Greek and Hebrew thought, and will discuss the influence of these ideas today. Students will read English translations of the most important parts of these works, and learn how to compare philosophical ideas. Students will be evaluated based on class participation, a presentation, and exam.

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## **英美文学概况 Introduction to British & American Literature**

**课程号：03835520 学分：2**

**先修课程：无**

#### **课程简介**

本课程由外教授课，主要内容包括英美文学发展史及代表作家的简要介绍和作品选读。从英美两国历史、语言发展角度出发，简要介绍英美两国各个重要时期的主要历史背景，文学流派，主要作家的文学生涯、创作思想、艺术特色及其主要代表作品，包括诗歌、小说、散文等。本课程从课堂表现，课堂报告以及考试等方面评定学生成绩。

This course will give a survey of the major movements in English literature. Students will read pieces of famous literature and discuss the ideas and style of these works. We will have examples of major authors from poetry, fiction and nonfiction, and cover both classic and modern literature. Students will be evaluated based on class participation, a presentation, and exam.

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## **美国文化概览 Introduction to American Culture**

**课程号：03835730 学分：2**

**先修课程:** 无

### 课程简介

本课程是为非英语专业学生基础阶段开设的文化专题课，课程类别为本科必修，由外教授课。本课程的目标在于：通过重点介绍美国的历史文化、风土人情、风俗习惯和语言发展等，帮助学生拓展有关这些英语国家文化历史发展的知识，提高阅读英文书刊和同英语国家人士交往的能力，从而激发他们的学习兴趣，为进一步学习打下基础；培养学生辩证唯物主义的历史观，增强学生的跨文化意识，从而进一步增强学生的跨文化交际能力。

This course is taught by American professors. Students will have a brief understanding of American culture through teachers' instruction, classroom discussion, group work and after-class assignments. It is designed to cover the basics of American history and development, culture and customs. The course aims to develop students' intercultural communicative skills by broadening their understanding of American culture.

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## 西方文化选读 Selective Readings in Western Civilization

**课程号:** 03835830 **学分:** 2

**先修课程:** 无

### 课程简介

这是一门以英文开设的西方思想文化课程。本课程将引导学生阅读一些西方文化经典文献，以期对西方文化的若干重要方面有基本了解，并加以思考。阅读内容涉及 圣经、希腊罗马神话、莎士比亚及其他作家的文学作品、西方思想经典、科学和宗教等等。学生将阅读相关的文章和书籍，分小组做课堂报告。阅读经典文选是达到本课程教学目标的根本保证。学生每周的阅读将在 3000 字左右。课程的方式进行方式:每周两课时，其中第一课时就上周布置的阅读文章和书籍进行课堂讲授、提问和课堂讨论；第二课时将为下周的阅读主题提供历史与文化背景知识。除课堂讨论外，学生也将以小组课堂报告的形式参与课程。期末将有开卷考试，包括西方文化基础知识部分和 essay question 部分。课堂讨论、课堂报告和期末考试在期末评定中分别占 30%，30%和 40%。

This course will give a survey of the history of Western civilizations. It will start with the beginnings of western civilization in Mesopotamia, looking at the major empires that shaped western history. We will emphasize moments in history that made the greatest impact on western society to this day. Students will be evaluated based on class participation, a presentation, and exam.

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## 英语公众演讲 English Public Speaking

课程号: 03835860 学分: 2

先修课程: 无

### 课程简介

本课程系统地介绍和讨论英语公众演讲所涉及到的各个环节,并辅助学生完成自我介绍性,说明性,和劝说性的演讲任务,旨在首先提高学生口头演讲的表达与沟通能力,其次改善学生演讲稿件的写作能力。此外,本课程在一定程度上培养学生对口头讲演和演讲稿件的批判性思维能力,以及利用网络和图书馆进行信息查询,收集,和整理的能力。本课程把英语口语表达训练与书面写作练习有机地联系在一起,加强学生对英语主动产出能力的综合运用训练,为学生在将来实际工作中的英语应用做好铺垫。

Public Speaking will help students learn the fundamental skills of public speaking, such as selecting a speech topic and purpose, analyzing the audience and speaking to inform or persuade. Students will also analyze the rhetoric of famous people, and apply these ideals and concepts to their own lives. Students will be evaluated on participation and presentations.

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## 马克思主义基本原理概论 An Introduction to Marxist Basic Theory

课程号: 04031740 学分: 3

先修课程: 无

### 课程简介

高校思想政治理论课教学是对大学生进行思想政治教育最直接、最基本的途径,《马克思主义基本原理概论》是其中的一门基础课程。马克思主义是关于无产阶级和人类解放的科学。研究无产阶级和全人类的解放是整个马克思主义的主题和核心,是贯穿马克思主义基本内容的主线。马克思主义哲学、马克思主义政治经济学和科学社会主义作为马克思主义理论的主要内容,体现和贯穿了马克思主义的本质,服务于马克思主义的本质。课堂教学的总体任务将集中到"强化学生对马克思主义整体性的认识和理解"、"坚定学生的马克思主义信仰"、"使学生掌握马克思主义基本理论要点"三个方面。

The ideological and political theory teaching in university is the most direct and fundamental way to educate university students ideologically and politically,"Introduction to the Basic Principles of Marxism" is one of the basic courses.Marxism is the science about the liberation of proletariat and humanity,the study of which is the nucleus of Marxism as well as the main line that goes through all the basic subjects of Marxism.Marxist philosophy,Marxist political economy

and scientific socialism are the key components of Marxism,which reflect and go through the nature of Marxism,and serve for it as well.It is necessary to concentrate the teaching task on firming student's faith on Marxist and making student looking Marxist as a whole and understanding essential information of Marxist.

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## 太极拳 Shadowboxing

课程号：04130030 学分：1

先修课程：无

### 课程简介

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。

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## 健美操 Aerobics

**课程号：04130040 学分：1**

**先修课程：无**

### 课程简介

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。

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## 乒乓球 Table Tennis

**课程号：04130050 学分：1**

**先修课程：无**

### 课程简介

1. 乒乓球是由两名或两对选手，在球网两端，用球拍轮流击球的一项球类运动。乒乓球是隔网对抗型项目，没有身体的直接冲撞，相对来讲，较为安全，是一项老少皆宜的运动项目。参加这项运动，可以提高人的灵敏、协调、动作速率和上下肢活动能力，改善心肺功能，全面提高身体素质，并且对于学生注意力的培养有很大的帮助。做为“国球”，乒乓球因为球体小、速度快、变化多、趣味性强，在中国有着很广泛的群众基础。更因为场地要求相对不高，器材装备较为亲民，也是很容易推广和普及的项目。我们的乒乓球课程主要讲授乒乓球的基本理论知识、技术、技能和竞赛规则，介绍乒乓球运动在国际和国内发展的最新动态与趋势。因为乒乓球是对练的项目，在课程的学习中你既能学习一门技术，又能加强与其他同学的交流和学习。相信参加我们的乒乓球课学习，你会获益匪浅！ 2. 安全注意事项：运动前需要充分活动身体各个关节，尤其手腕、脚踝。捡球时，要注意安全，避免不必要的意外发生。

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## 基本乐理与管弦乐基础 Basic Theory of Music and The Basics of Orchestral Music

**课程号：04330881 学分：2**

**先修课程：无**

**课程简介**

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。

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## 西方美术史田野调研 Field Investigation of History of Western Art

**课程号：04332711 学分：1**

**先修课程：无**

**课程简介**

西方美术史实地考察，是在西方美术史课的基础上，通过相关考试选拔 20 名优秀本科学学生，由学校国际合作部统一组织，授课老师和有关老师一起带队，集体到英 国的伦敦、约克和爱丁堡三个城市，参观与讲解当地重要博物馆的主要展品以及相关的著名文化遗迹，从而具体而有效地深化学生对西方美术史的感受与理解。 鉴于西方美术史课需要体验原作，亲睹真迹的重要性，而英国博物馆和美术馆又是接触和讲解西方美术史主要作品的理想之选，西方美术史实地考察课，将为学生提 供新的学习平台。

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## 认知科学与经济学 Cognitive Science & Economics

**课程号：04630710 学分：2**

**先修课程：无**

**课程简介**

认知科学研究人的心智世界。经济活动是人类社会最大规模实验，每个市场参与者都是主动的实验观测者。本课程介绍经济学和认知科学的整合理论、基本原理和模 型方法。20 世纪的经济学和心理学是在牛顿力学的框架中发展起来的。在 21 世纪的跨学科研究中，整合经济学和认知科学要求超越牛顿



力学的传统。此课程将引入一系列新的模型方法来刻画亚经济分析、货币、经济政策、帕累托效率、市场、“看不见的手”等。课程设计是自足的，不要求任何前修课程。它从基本概念讲起并带入前沿课题，由浅入深，深入浅出，使听众能够跟上演讲进度，学习系统知识，理解、掌握交叉学科的特点和方法。本课程在美国伦斯勒理工学院发展与讲授多年，近年在清华大学，人民大学和中山大学讲授多次，引起中美文理各学科学生和教师的广泛兴趣并得到很高的课程评价。

Cognitive science studies the human mental world. Economic activity is an experiment with the largest scale human being has ever run, and each individual market participant serves as an active observer. This course introduces an integrated theory of economics and cognitive science - its fundamental principles and modeling methods. Economics and cognitive science of 20th century were developed within the framework of Newtonian physics. For the interdisciplinary study of the 21st century, the integration of economics and cognitive science requires to go beyond the limitation of Newtonian tradition. This course will introduce a series of integrated models to characterize sub-economic analysis, monetary economics, economic policy, Pareto efficiency, dynamic market, “invisible hand”, etc. The course is designed as self-contained without prerequisites. It starts from establishing basic concepts and then gets into frontline topics. Special efforts will be made to make sure anyone interested can follow the lectures, study systematic knowledge, and understand the characteristics and methods this interdisciplinary approach. This course have been developed and taught at Rensselaer Polytechnic Institute (UAS) for many years and at Tsinghua University, People’s University of China, and Zhongshan University in recent years. It attracted wide interests from American and Chinese students and teachers from all different majors and received high course ratings.

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## 推理与决策 Reasoning and Decision Making

课程号: 04630720 学分: 2

先修课程: 无

### 课程简介

本课程涵盖高阶认知和心智理论的广泛内容，包括逻辑与推理心理学、决策论与决策心理学、理性论与行为主义博弈论、语言任务与实验方法，及其在管理科学、政治科学、国际关系和教育考试与评价中的应用。传统上这些领域是独立发展和分别教授的。本课程采用交叉学科的模式并侧重构建复合领域的整合模型，沿此脉络展开理论、经验和实践等层次的讨论。课程设计是自足的，不要求任何前修课程。它从基本概念讲起并带入前沿课题，由浅入深，深入浅出，使听众能够跟上演讲进度，学习系统知识，理解、掌握交叉学科的特点和方法。本课程在美国伦斯勒理工学院发展与讲授多年，近年在清华大学，人民大学和中山大学讲授多次，引起中美文理各学科学生和教师的广泛兴趣并得到很高的课程评价。



This course covers a wide range of contents in higher order cognition: logic and psychology of reasoning; decision theory of psychology of decision making and judgment; rationality theory and behavioral game theory; linguistic tasks and experimental methods; and their applications in management science, political science, international relations, standard educational test and measurement, etc. Traditionally, these fields were developed independently and taught separately. This course takes an interdisciplinary approach, and emphasizes constructing integrated models of multiple subdomains. Along this line the lectures and discussions will be delivered from theoretical, empirical, and practical perspectives. The course is designed as self-contained without prerequisites. It starts from establishing basic concepts and then gets into frontline topics. Special efforts will be made to make sure anyone interested can follow the lectures, study systematic knowledge, and understand the characteristics and methods this interdisciplinary approach. This course have been developed and taught at Rensselaer Polytechnic Institute (UAS) for many years and at Tsinghua University, People's University of China, and Zhongshan University in recent years. It attracted wide interests from American and Chinese students and teachers from all different majors and received high course ratings.

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## 可编程逻辑电路设计(I) Digital Design Using PLD (I)

课程号: 04830810 学分: 2

先修课程: 数字逻辑电路

### 课程简介

通过课程的学习, 使学生熟悉可编程逻辑器件的结构和原理, 掌握可编程逻辑器件的开发方法和工具, 学习硬件描述语言 VHDL, 锻炼设计和实现数字系统的综合能力, 培养学生的团队合作、交流和表达能力。

By studying and practicing in this course, we wish our students can make progress in the following aspects: getting familiar with the basic structure of the programmable devices, grasping the developing tools and process of a digital design using PLD, studying the hardware developing language of VHDL, enhancing the ability of designing and realizing a digital design, developing the ability of cooperation, communication and lecturing. learns to design digital circuits using VHDL language and implement it in a programmable logic device. Covers electrics, electronics and engineering. Topics include programmable device, VHDL language, the developing tools and process of PLD.

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## 文科计算机基础(上) Fundamentals of Computer for Arts (1)

**课程号：04831430 学分：3**

**先修课程：无**

**备注：限曾修文计（上）不及格的毕业班学生，在选课时间内到信息学院教务办选课，带本人成绩单，自备笔记本电脑**

#### **课程简介**

人类步入信息化社会，计算机与网络、多媒体及其信息处理，成为人们经济活动、社会交往和日常生活中不可或缺的工具。使用计算机的意识和基本技能，应用计算机实现信息的获取、表示、存储、传输、处理、控制和应用，解决实际问题的能力，已成为衡量一个人文化素质高低的重要标志之一。文科计算机基础课程的教学目标是，培养并提高大学生的信息意识，提高应用计算机解决具体问题的能力。文科计算机基础的教学分为二个层次：第一层次是计算机基础（上）。由计算机基础知识、微机操作系统及其使用、多媒体知识和应用基础、图形图像的制作与处理基础、办公软件应用、计算机网络基础、Internet 基本应用、信息检索与利用基础等模块组成。这一层次的教学内容是文科所有专业的学生都是学习的。第二层次是计算机基础（下）课程，包括程序设计及其应用、多媒体技术及其应用、网页设计基础、数据库基础及其应用等模块。这部分的 teaching，在更大程度上决定了学生在其专业中应用计算机解决问题的能力与水平。学生可根据其专业需要以及兴趣爱好，选择学习某一模块。

The goal of the course is, to cultivate and improve college students' information consciousness, enhance the ability of computer application. The course is divided into two levels: The first level is the foundation of computer ( 1). The basic knowledge of computer, computer operating system, multimedia technology, graphic image processing base, the application of office software, computer network and Internet application. The second level is the basic computer course ( 2), including several modules, such as program design and its applications, multimedia technology and its application in webpage design, database basis and its application. This part of the teaching, to enhance ability of the students in the application of computer to solve the problem ability and level. Students according to their professional needs and interests, choose to learn a certain module.

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## **文科计算机基础（下）Fundamentals of Computer for Arts (2)**

**课程号：04831440 学分：3**

**先修课程：文科计算机基础（上）**

**备注：限曾修文计（下）不及格的毕业班学生，在选课时间内到信息学院教务办选课，带本人成绩单，自备笔记本电脑**

#### **课程简介**

人类步入信息化社会，计算机与网络、多媒体及其信息处理，成为人们经济活动、社会交往和日常生活中不可或缺的工具。使用计算机的意识和基本技

能，应用计算机实现信息的获取、表示、存储、传输、处理、控制和应用，解决实际问题的能力，已成为衡量一个人文化素质高低的重要标志之一。文科计算机基础课程的教学目标是，培养并提高大学生的信息意识，提高应用计算机解决具体问题的能力。文科计算机基础的教学分为二个层次：第一层次是计算机基础（上）。由计算机基础知识、微机操作系统及其使用、多媒体知识和应用基础、图形图像的制作与处理基础、办公软件应用、计算机网络基础、Internet 基本应用、信息检索与利用基础等模块组成。这一层次的教学内容是文科所有专业的学生都是学习的。第二层次是计算机基础（下）课程，包括程序设计及其应用、多媒体技术及其应用、网页设计基础、数据库基础及其应用等模块。这部分的 teaching，在更大程度上决定了学生在其专业中应用计算机解决问题的能力与水平。学生可根据其专业需要以及兴趣爱好，选择学习某一模块。

The goal of the course is, to cultivate and improve college students' information consciousness, enhance the ability of computer application. The course is divided into two levels: The first level is the foundation of computer ( 1). The basic knowledge of computer, computer operating system, multimedia technology, graphic image processing base, the application of office software, computer network and Internet application. The second level is the basic computer course ( 2), including several modules, such as program design and its applications, multimedia technology and its application in webpage design, database basis and its application. This part of the teaching, to enhance ability of the students in the application of computer to solve the problem ability and level. Students according to their professional needs and interests, choose to learn a certain module.

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## 大规模数据处理/云计算 Mass Data Processing/Cloud Computing

**课程号：04831830 学分：2**

**先修课程：一些计算机编程经验，最好是 Java 语言**

### 课程简介

Web 网页全文索引，镜像网页消重，垃圾邮件过滤，天气模拟，星系模拟，上亿字符串的排序.....，现在人们正处在一个面临海量数据处理挑战的时代。你想不想了解如何利用多台机器的并行计算能力来完成这些任务？并且是写少量的代码来做这些事情？这些应用，可以使用 MapReduce 分布式编程模型完成。在这为期 5 周的课程中，你会学习到：1) 分布式系统的相关知识；2) MapReduce 理论和实践，包括：认识和理解 MapReduce 如何适用于分布式计算，明白它适合哪些应用，不适合哪些应用，和实践中的提示和技巧；3) 通过几个编程练习和一个课程项目，获得实际在 MapReduce 编程模型下的算法并行化设计技术经验。在这些内容基础上，更进一步的，本课程力图把一种并行化思考方式介绍给你，它是未来计算的重要内容。课程练习和项目将使用 Hadoop（开放源代码实现的 MapReduce）。使用机群由网络实验室提供，需要学生自备能够无线上网的笔记本（用于连接机群操作），我们会尽量安排在能够无线上网的教室，并尽量为大家争取到上机实习的机会。

Web page full-text indexing, eliminate re-mirror pages, spam filtering, weather simulations, galaxy simulations, sort strings of millions ... .. and now people are in a challenge facing the era of massive data processing. Do you want to learn how to use multiple machines in parallel computing power to accomplish these tasks? And a small amount of code is written to do these things? These applications can be distributed using the MapReduce programming model complete. In this course, you will learn to: 1) knowledge of distributed systems; 2) MapReduce theory and practice, including: awareness and understanding of how to apply MapReduce distributed computing and understand that it is suitable for applications which do not for which applications, and practice tips and techniques; 3) through several programming exercises and a course project, to obtain the actual MapReduce programming model in parallel algorithm design experience. Among these elements, based on further, try to turn the course of thinking about a parallel way to introduce to you, it is an important part of the future of computing. Course exercises and projects will use Hadoop (open source implementation of MapReduce). A cluster will be provided by the network laboratories, and we require students to bring their own laptop to access the cluster through wi-fi.

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## 职业规划与领导力发展 Career Planning & Leadership Development

课程号: 04831840 学分: 2

先修课程: 无

### 课程简介

面对科技日新月异、社会急剧变迁的 21 世纪, 只掌握专业上的一技之长, 已难以适应瞬息万变的职场, 也不足以获得充实、圆满的自我。有鉴于此, 我们邀请一些 事业有成的北大校友们在暑期开设本课程, 旨在帮助在校学生明确发展方向、规划大学生涯、有效地发展领导力素质, 特别希望那些即将踏入职场的高年级本科生、 研究生能够确立自己的职业生涯定位、拟定人生发展策略。 在 84 级计算机系同学发起的“计算机系校友讲座基金”支持下, 2008、2009、2010、2011、2012 年连续 5 年开设“职业规划与领导力发展” 暑期课程, 获得了选课学生的好评。 2013 年暑期, 本课程拟通过十多位富有职业规划经验、有着激荡澎湃之人生的成功人士主讲。教师们将根据他们自己的亲身体会, 协助学生了解生涯规划的一些 基本概念与基本技巧, 进而培养学生从事职业的兴趣、技巧、能力, 塑造清新独特的自我, 养成良好的职业道德。主要内容包括人生经验, 由国企、外企、事业单 位、留校、创业的 IT 人士介绍他们的心路历程和职业发展道路; 职业规划的重要性分析和理论指导, 职业发展中的技能培养和软素质的提升; 中国信息产业创新的 现状与未来, 创业融资、中国软件企业的自主创新的案例分析等。 本课程的目标主要包括: 1. 培养学生了解生涯规划的基本概念及重要性; 2. 指导学生学习生涯规划的技巧, 扩展生涯的知觉范围、增进生涯探索能力、促进自我的实现; 3. 陶冶学生职业活动志趣、培养敬业精神、养成良好的职业道德; 4. 培养学生终生学习的态度、学习团队合作精神, 活出精彩的人生。 由于生涯探索与规划是一个终身不断调适的过程, 其具体内容的深度和广度均会因人而

异，本课程只作为入门课程来引导学生如何确立人生的方向，提供奋斗的策略，以帮助学生突破生活的格线，塑造清新充实的自我。课程网址：<http://fusion.grids.cn/career/>（欢迎提前注册，便于组织团队。开课期间，本课程将给选课学生配置 wifi。）

The summer course --- Career Planning and Leadership Development --- is a part of 20th Graduation anniversary for PKUCS Alumni. Since 2008, for five years in a row, students have given high praise for what they have learned and benefited in class. The course is intended to assist students in their career development, by providing opportunities to communicate with alumni who have built successful careers. We aim at helping students define their goals, learn more about themselves, discover their interests, values, skills and temperament, and in turn develop their leadership. Especially, for senior students, we help them succeed in their career endeavors by facilitating more appropriate goal setting, decision making, and focused career selection. This summer, more than ten professionals will be coming to campus to share their stories and explain how they've taken their skills and talents to form successful careers. The speakers come from a variety of backgrounds, including state-owned enterprises, international companies, start-ups, academia, government, etc. The following topics will be covered: the concepts and importance of career planning, lessons in making career choices and decisions, tips in maintaining and enhancing employability, analysis of trends and developments in China's innovation systems, case studies of IT industry in China, etc. For more information, please visit the course homepage (<http://fusion.grids.cn/career/>).

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## 生物特征识别 Biometrics

课程号：04831950 学分：2

先修课程：无

### 课程简介

信息化时代的一大特征就是个人身份的数字化和隐性化。如何准确鉴定一个人的身份，确保安全是当今信息化时代必须解决的一个关键性社会问题。目前，我国乃至世界的各种身份管理大部分使用证件、磁卡、IC 卡和密码，这些手段无法避免伪造或遗失，密码也很容易被窃取或遗忘。这些都给管理者 and 使用者带来很大不方便。基于生物特征识别的身份验证可以避免这些麻烦。因此，有越来越多的研究者投身于这个领域，工业界也有了越来越多的产品。2003 年 5 月，香港特区政府签发了第一张存储指纹特征的智能身份证，2003 年 11 月，英国内政部也开始实施一项为期 6 个月的电子生物特征身份识别技术的试点，以便为将来在全国范围内推出新型身份证系统做准备。美国政府也自 2004 年初开始对所有出入境的外国公民采集双手食指指纹，用以防范恐怖袭击增强国土安全。显而易见，生物特征识别技术将在法律，安全，金融，商业，军队以及各种涉及身份认证的场合大有作为，正如比尔·盖茨曾作的断言那样，生物特征识别技术将成为未来若干年 IT 产业的重要革新。在本课程将系统的介绍生物特征识别技术的来源，发展和现状，教授学生相关领域的知识，拓展学生的视野，培养研究兴趣，通过课堂讲授，演示和组织学生阅读领域内的书籍和论文，引领学生去学习和掌握生物特征识

别领域的基本知识与技术，为学生独立展开研究工作打下坚实的基础。

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## 工程科学研究方法 Workshop on Engineering Research Methodologies

课程号：04832330 学分：2

先修课程：无

课程简介

科学研究是大学教育中的重要组成部分之一。目前的大学课程中很少涉及对科学研究方法的系统介绍。通常，低年级的本科生和研究生通过跟着高年级的同学进入项目研究，在此过程中自己总结实验技巧和研究方法。这种学习方法通常效率较低，并需要较长的时间才能够真正掌握有效的研究方法。面向刚刚或者即将开始参与科学研究的学生，本课程将以课题讲授和讨论的形式，重点介绍学生感兴趣的科学研究过程和研究方法。学生通过课程学习，能够比较系统地掌握现代科学研究所需要研究方法，为以后的科研工作打下坚实的基础。

Research is a very important education component in university. However, systematic approach to perform research has seldom been covered in normal university curriculum. Undergraduate and post-graduate students are used asked to perform research following their senior colleagues and pickup the skill by themselves. Given the many concerns of those confronted by a first-time research responsibility, this special workshop is intended primarily for students, both graduate and undergraduate, who have not experienced research but want to know more about the process and methods of research. It is a workshop style class with both lecture and discussion.

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## 创新工程实践（实习）Lab of creative engineering practice

课程号：04832600 学分：1

先修课程：无

课程简介

本课程是与春季学期的全校公选课《创新工程实践》配套的课程。

This is a supplement for the course "Creative engineering practice", which accomodates the students with more lab time and more advisor advices, so that the



developing process can be more complete.

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## 算法博弈论 Algorithmic Game Theory

课程号: 04832770 学分: 2

先修课程: 无

课程简介

算法博弈论是近十年来理论计算机最重要的进展之一，是计算机和博弈论（经济学）的交叉学科。算法博弈论从算法的角度对 Nash 均衡等博弈论重要概念进行了深入研究。本课程主讲人 Christos Papadimitriou 是美国加州大学伯克利分校教授，美国国家科学院、国家工程院、艺术与科学学院三院院士。Papadimitriou 教授是算法 博弈论的创始人之一，并因此获得 Godel 奖、Knuth 奖等众多计算机界享有盛誉的奖项。

Algorithmic Game Theory is one of the most important area in the interdiscipline of computer science and game theory. It studies concepts such as Nash equilibria from an algorithmic point of view.

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## 集成电路静电放电保护方法 Electrostatic Discharge for Integrated Circuits

课程号: 04832800 学分: 2

先修课程: 电子线路, 半导体物理, 半导体器件物理

课程简介

静电放电 (Electrostatic Discharge, ESD) 是指电荷在两个不同电势物体之间转移的过程。公元前六世纪, 古希腊人发现琥珀摩擦后能够吸引轻小物体, 其实就是自由电荷在物 体之间转移的 ESD 现象。在自然界中, ESD 现象无处不在、无时不有。ESD 过程会产生瞬时高压和大电流脉冲。例如, 干燥的冬天带电的人体接触金属把手时的 ESD 现象, 有电击触觉时冲击瞬时电压大约 为 3000V, 能听到放电声音时大约为 5000V, 能看到放电火花时大约为 8000V。对于集成电路而言, 从芯片加工、封装、运输、系统集成以及用户使用, 所有过程都有可能 在集成电路的引脚上产生 ESD 现象。ESD 所产生的瞬间高压和大电流 脉冲会通过芯片管脚流经芯片内部, 从而导致芯片内部电路损伤而无法正常工作。根据美国可靠性分析中心统计, 在所有电子设备的硬件故障中, ESD 冲击导致的 失效占 15%, 而对高静电敏感的集成电路这一比例高达 60%。全球每年因 ESD 对电子设备和系统所造成的损失高达 450 亿美金。集成电

路技术近五十年来一直沿着摩尔定律高速发展。一方面，随着集成电路器件特征尺寸的不断减小，CMOS 器件的超薄栅氧化层、超浅结深、多栅立体结构、Silicide 等先进工艺技术的引入，在提高了 CMOS 器件的工作速度和集成度的同时却使 CMOS 器件局部产生更高的电流密度、电场密度和热量，大大降低了它们的抗 ESD 冲击能力。另一方面，任何一种 ESD 保护结构都带来一定的寄生电容、电阻和电感。这些寄生效应会对其保护的内部电路性能造成一定的负面影响，例如输入/输出阻抗失配、噪声耦合、破坏信号完整性、时钟延迟、功耗等问题。这种影响对于射频（RF）和高速数字电路的影响尤为严重。因此，ESD 保护技术一直是集成电路可靠性问题的研究重点和热点。“集成电路静电保护方法”这门课程将针对 ESD 保护技术这一微纳电子和集成电路领域的研究热点，面向微电子和电子专业的高年级本科生，主要讲解 ESD 相关工艺、器件、电路、系统和测量技术。通过这门课的学习，学生将有如下收获：了解 ESD 冲击模式、失效机制、规格标准、测试方法等基本概念；重点学习二极管、MOS 管、SCR 管等 ESD 保护结构的器件、电路和版图设计方法，输入/输出管脚 ESD 保护电路、电源钳位电路以及全芯片 ESD 保护的设计方法；学习 RF 电路与 ESD 协同设计方法；了解 SOI、FinFET、TSV 等新工艺、新器件的 ESD 设计。

Electrostatic discharge (ESD) is the sudden flow of electricity between two electrically charged objects caused by contact. IC 600 BC, Greeks discovered ESD phenomenon in basic experiments, where they rubbed Amber with a piece of fur and observed attraction of lightweight objects to the Amber. In nature, ESD issues are everywhere and whenever, which are a transient process associated with high voltage and high current. In a dry winter day, ESD occurs, for example, when a charged human body touches a metallic knob. If you feel a shock, ESD voltage is about 3kV. If you hear a popping sound, ESD voltage is about 5kV. And if you see a spark, ESD voltage is about 8kV. ESD issues randomly and frequently occur in the whole procedures of integrated circuits (ICs) industry, including manufacturing, packaging, transporting, system integrating, and user applying. The high energy associated with ESD issues could lead to the gate dielectric breakdown and the pn junction burnout. Statistics from the RAC indicate that about 15% of all electronic component and system failure might be attributed to ESD, and up to 60% for ICs. In nearly fifty years, IC technology follows Moore's Law dramatically scaling down. However, the ESD robustness of the ICs is terribly degraded by the advanced CMOS techniques, such as shorter channel length, thinner gate oxide, shallower junction, 3-D multi-gate structure, and silicide diffusion technique, which will induce CMOS device to increase current density, field intensity and heat energy. Moreover, an ESD protection device is associated with some parasitic effects, such as capacitor, resistor and inductor. Such an inevitable ESD-induced parasitic effect has a substantial impact on high-speed digital and RF ICs performance, such as, clock delay, signal integrity, I/O impedance matching, and power efficiency. Apparently, ESD protection design for ICs is the immediate area of ICs reliability research focus. This course is designed for the junior students in Microelectronics and Electronics, who intend to working in the field of ICs design and electronic system design. We try to present ESD issues associated with technology, device, circuit, system, measurement. This effort attempts to do the following: the ESD basics including ESD testing models, failure mechanism, and measurement methods; the ESD device design of diode, MOSFET, and SCRs; the I/O ESD protection circuit and power clamp circuit design; the "ESD-circuit" co-design methodology for RF circuit; and the approach ESD design for advanced CMOS technique including SOI, FinFET and TSV.



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## 纳米光电子的研究前沿与应用 Physics and Applications of Nano-Photonics

课程号: 04832810 学分: 2

先修课程: 无

课程简介

简要内容: 包括纳米光电子材料, 器件及多方面的应用,从基础理论到最前沿的发展和物理结果, 包括信息系统, 生物传感器件, 发光二极管, 和太阳能电池等。

COURSE OBJECTIVE ? Develop a physical understanding of nano-optoelectronic materials and devices, including light-emitting diodes, semiconductor lasers, photodetectors, and solar cells ? Acquire basic skills for analyzing and designing semiconductor optoelectronic devices. PREREQUISITES ? Simple p-n junction, semiconductor physics, concept of energy bands, Fermi levels. ? Basic concept of quantum mechanics, perturbation theory ? Concept of dielectric waveguide, electromagnetic waves.

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## 函数式编程语言 Haskell 导论 Introduction to functional programming using Haskell

课程号: 04832840 学分: 2

先修课程: 无

课程简介

This is an introductory course in programming, using the functional language Haskell as the medium of instruction. The primary goal is to enable students to write realistic (small) programs for real world applications, while introducing some of the fundamental concepts of computer science. Learning outcome (after completion of this course, the student should be able to): \* write small functional programs for various applications. \* use a basic repertoire of programming techniques in a typed functional language, such as modelling with datatypes and use of recursion and higher order functions. \* apply software testing techniques using appropriate tools.

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## 社会经济调查理论方法与实践 Social Economic Surveys: Theory, Methodology and Practice

课程号: 06237020 学分: 4

先修课程: 无

### 课程简介

本课程目的是学习社会经济调查的理论和方法, 并且通过参与一个真实的社会调查项目(中国健康养老追踪调查)的实地调研, 从社会实践中深入了解民生, 磨练意志, 锻炼沟通能力, 培养观察、思考和解决问题的能力, 培养团队精神。本课程重点借助中国健康养老追踪调查(CHARLS)为同学深入讲解社会经济调查的理论、方法和技术, 并通过实践学习和锻炼社会经济调查的技术。本课分为两部分, 一是在课堂学习社会经济调查的理论、方法和技术, 掌握 CHARLS 问卷, 练习访谈技巧, 二是在暑期参与 CHARLS 的实地调查。CHARLS 问卷内容覆盖很多方面, 包括被访者及其家户的基本人口学信息、家庭构成、家庭成员间转移支付、被访者健康状况、医疗服务的利用、医疗保险的使用、就业、退休、收入、支出与资产等情况等。每一户的调查需要 3 个小时左右, 问题的专业性很强, 因此学习问卷的内容是本课程的重要部分。本课程教学部分为大班教学, 每周习题课安排小班练习、模拟。实地调查部分为团队集体活动。

The objectives of the course are to teach the theory and methodology of socioeconomic surveys, and by involving students in the fieldwork of a real survey (China Health and Retirement Longitudinal Study, CHARLS) help students to gain a deep understanding of the livelihood of ordinary Chinese people and sharpen the skills necessary for their future careers, including the ability to cope with adversities, communication skills, the ability in observing, thinking and solving problems, and team work. This course will use the CHARLS survey to teach the theory, methodology and technology of socioeconomic surveys and give students the opportunity to practice their survey skills in field survey. The course is divided into two parts. One is classroom teaching, focusing on the theory, methodology and technology. Students will grasp the content of the CHARLS questionnaire and learn the techniques of interviews. The second part is real world practice. The CHARLS questionnaire is very comprehensive, covering areas of demographics, family composition and intergenerational transfers, health status, health insurance and health services utilization, employment, retirement and pension, income, expenditure and assets. Each household interview is expected to last about three hours. Thus it is a highly professional questionnaire an important part of the classroom teaching. After classroom teaching there will be small practice sessions scheduled each week to allow students to practice their skills and simulate interviews. During the actual fieldwork students will be grouped into small teams.

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## 综合社会实践实习 Comprehensive Social Practice Practicum

**课程号：12639010 学分：1**

**先修课程：本科三年级结束后的城市规划专业学生**

### 课程简介

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。

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.

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## 环境化学野外实习 Environmental Chemistry Field Practice

**课程号：12739020 学分：2**

**先修课程：无机化学 分析化学**

### 课程简介

本课程以北京大学地球环境与生态系统塞罕坝实验站为实习基地。该实习基地具有较好的大气环境、水环境和土壤环境研究对象，方便开展广泛的监测、采样活动；学生在指导教师的带领下，通过充分的准备，然后亲身参与各项监测、采样、分析、处理工作，最终完成翔实、科学的实习报告。本课程与环境化学理论课的讲述相配合，通过综合性的设计实验，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、变化过程的检测、分析手段和数据处理方法，加深对环境保护的认识，提高学生分析问题和解决问题的能力。

This course takes SaiHanBa Experimental Station of Geoenvironmental and Ecosystem, Peking University as its practice base. The base has good atmospheric environment, water environment and soil environment research object, It is suitable for extensive monitoring and sampling activity. Under the guidance of tutor, students take part in each monitoring, sampling, analysis and treatment by themselves, they accomplish full, accurate and scientific practice report. The course matches the theoretic course of environmental chemistry, it trains the research thought and method for the problems of environmental chemistry of the students, it also helps the students to deepen the understanding of environmental protection, and improves their ability to analyze and solve problems.

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## 文献计量学与研究趋势分析 Bibliometrics and analysis of research trends

课程号: 12739030 学分: 2

先修课程: 无

### 课程简介

在文献计量学领域,何玉山教授首先以大规模数据讨论平均被引用率,并创新提出以关键词区段变化分析研究趋势,也提出以文章总数、独立完成文章、合作文章、第一作者文章、通讯作者文章五个文献计量指标评价国家与机构的研究表现。目前,何玉山教授指导北京大学与其他国内高校研究生发表相关 SCI 期刊论文 20 余篇。本课程中,何玉山教授将总体介绍 SCI 文献检索的方法,向学生介绍如何通过 SCI 文献检索提高科研能力,找到前沿的研究方向。教会学生撰写科技论文的基本方法。系统介绍利用文献计量学进行研究趋势分析的各种方法、指标体系,通过案例(已发表的文章)让学生对该方法有全面深入的了解和认识。通过电脑实际操作,针对每个学生不同的科研方向,选定各自的检索主题,通过分析文章篇数、被引用次数、期刊、国家、机构的表现、标题字、作者关键词、附加关键词、摘要等各种文章的要素,把握该领域目前的研究趋势和未来的发展方向。为学生进行创新性科研提供基础和方向。

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## 营养与疾病 Nutrition and Disease

课程号: 18050150 学分: 1

先修课程: 无

### 课程简介

有营养就有健康,营养状况良好可预防疾病的发生。近年来发病率显著上升的慢性疾病如糖尿病、高血压、肥胖等主要由膳食不合理引起,1/3 癌症与膳食有关;调查发现,良好的营养状况,可增强人体的免疫力,预防感染性疾病的发生。随着生活水平的提高,人们更关注营养。去年的一项调查发现,医学相关专业及临床医生的营养学知识欠缺,普通大众更缺乏科学的营养学知识。本课程作为北京大学医学部校内选修、校际选修已开展 10 年,自 2002 年起,“营养与疾病”一直是医学部校际选修选课学生人数最多的课程。任课老师授课活泼、生动,营养知识科学化、科普化,受到了广泛欢迎。

We can be healthy only when we own nutriment. The good condition of nutrition can keep us away from illness. The incidence of the chronic disease, such as

diabetes, hypertension, adiposity etc, has increased sharply in recent years. Most of these diseases are mainly caused by unscientific meal. Furthermore, 1/3 of the cancers have something to do with meal. According to investigates, the good condition of nutrition can not only strengthen the immunological function but also prevent diseases. Along with the improvement of the standard of living, people pay more attention to nutrition. On the basis of a survey last year, people who had professional knowledge of medicine and clinical doctors were lack of nutrition knowledge, while general people were more short of scientific nutrition information. This course, as the intramural and interscholastic elective of Peking University Health Science Center, has already developed for 10 years. "Nutrition and Disease" has been the most popular interscholastic elective of Peking University Health Science Center since 2002. The teachers of this course are widely welcomed for teaching lively and making nutrition knowledge understandable and scientific.

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## 人体免疫与健康养生 Cryptogram of Immunology

课程号: 18050180 学分: 1

先修课程: 无

### 课程简介

本门课程是从免疫学的角度介绍如何建立科学的生活方式, 走出生活中的各种影响机体免疫的误区, 从而达到预防疾病和保持身体健康的目的。免疫及免疫力一直是 人类健康的重要话题, 在很多疾病(如恶性肿瘤、哮喘、肝炎和爱滋病等感染性疾病等等)的过程中, 免疫因素均扮演着十分重要的作用。可是, 你知道吗? 免疫系统和人体的其它系统一样, 伴随着机体的成长而成长, 伴随着机体的衰老而衰老, 在人类发育的各个时期均有其相应的特点, 在不同的发育阶段必须制定相应的健康 免疫养生策略, 才能保护我们的免疫系统, 使其充分发挥功能, 达到健康养生的目的。同时, 免疫系统对外界十分敏感, 社会发展、环境污染和心理压力加大, 甚至 各种医疗技术的使用(如美容手术)等因素, 均可能导致免疫系统的损伤甚至崩溃, 引起各种疾病。在课程的教学, 主要包括人体免疫系统及功能的基本介绍、疾病中免疫问题和免疫与健康养生的关系等内容。通过本门课程的学习, 学生可以初步掌握免疫学及免疫系统功能的主要机制和一般规律, 了解免疫与健康养生的基本 原理, 同时还能了解现代免疫学技术在医学生物学领域中的应用知识。

In this curriculum, the students will be encouraged in learning basic knowledges and principles in immunology and its role in health in their lifes. Several immunological problems, such as immunity against bacteria, tumoral cells and virus, and the mechanism for transplantation immunity and autoimmune diseases will be involved in the discussion.

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## ACM/ICPC 竞赛训练 ACM/ICPC Training

课程号: 30330500 学分: 2

先修课程: C++, 数据结构; 或有中学生信息奥赛经历

### 课程简介

北京大学的 ACM 国际大学生程序设计竞赛(ACM/ICPC)水平在国内处于领先地位,自 2005 年至 2008 年每年均参加总决赛,名次分别为 11(铜牌),13,14,13。北京大学的 Online Judge --- POJ 更是国内最有影响力的 ACM/ICPC 竞赛训练平台,在国际上也有较高知名度和较多用户。北京大学 ACM/ICPC 竞赛队精英汇集,大多数队员都曾在全国中学生信息学奥赛上取得过优异成绩,或在 ACM/ICPC 亚洲区预选赛中获得过金奖。北京大学 ACM/ICPC 竞赛队通过多年的积累,已经形成了一套行之有效的系统训练方法。本课程为准备参加 ACM/ICPC 的同学设置。和北京大学 ACM/ICPC 竞赛队的队员一起学习、交流、训练,一定会对提高参训学校的竞赛成绩大有帮助。

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## 全英文课程

### Comparative Philosophy: China and the West 比较哲学: 中国和西方

Course ID: 30340015 Credit: 2

Language: English

**Pre-requisites: Students should have a basic knowledge of the Western cultural narrative and an interest in Chinese philosophy.**

#### Introduction

With the rise of China over the past generation we have witnessed a sea change in the economic and political order of the world. The G8 has become the G20 and GDP in the region has grown by 400%. What are the implications of this dramatic sea change for the world cultural order? Will Chinese culture make a difference over the next generation, and if so, what does it have on offer? Economic and political change is relatively easy to track, but how do we assess cultural change? How do we make responsible cultural comparisons between China and contemporary Western liberal assumptions.

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## Transition and Public Policy in China 转型时期的中国公共政策

**Course ID: 30340028 Credit: 2**

**Language: English**

**Pre-requisites: Students are expected to have fundamental knowledge in economics.**

### **Introduction**

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.

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## Silk Road: A History of Cultural and Material Exchanges 丝绸之路：文化和物质交流史

**Course ID: 30340030 Credit: 3**

**Language: English**

**Pre-requisites: No pre-requisites**

### **Introduction**

This course introduces the history of the Silk Road — a complex network of trade routes that connected China and Rome over land and sea — and examines the cultural and material exchanges between the peoples and cultures it connected. The course covers the period 500 BCE to 1500 CE, during which forces wielded by many peoples (e.g., Chinese, Greeks, Persians, Arabs, Turks, and Mongolians) shaped the geopolitical landscape of Asia. It explores the roles played by the Silk Road in forming and transforming the cultural, ethnic, and religious identities of these peoples and their perceptions of one another. It highlights such themes as conspicuous consumption, cultural diversity, religious pluralism, and nomadic migration, as well as the financial, judicial, religious, and social institutions that were the fruits of these extended exchanges. The course begins and ends with an analysis of conceptualizations of the “Silk Road” against the backdrop of the “Great Game” that played out in the late 19th and early 20th centuries among various colonial powers as well as its legacy to this day. Texts Richard C. Foltz. Religions of

the Silk Road: Premodern Patterns of Globalization. Palgrave Macmillan, 2010. Valerie Hansen. The Silk Road: A New History. Oxford University Press, 2012. Xinru Liu. The Silk Roads: A Brief History with Documents. Bedford/St. Martin's, 2012. Xinru Liu. The Silk Road in World History, Oxford University Press, 2010. Susan Whitfield. Life Along the Silk Road. John Murry, 1999.

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## The China Factor--- Managing China' s Global Challenges 中国因素：应对中国的全球挑战

**Course ID: 30340035 Credit: 2**

**Language: English**

**Pre-requisites: No pre-requisites**

### **Introduction**

The rise of China over the last two decades is one of the most significant events that shape global market competition, trade and economic development, and geopolitics. Its implications on worldly issues from global and regional peace and security to the sustainability of the environment are profound. The China factor is an amalgamation of dynamic, complex and interactive forces that appear as problems, puzzles or challenges to different people at different times. This course aims to provide an orientation for students to understand those forces, especially those related to the major stakeholders and their evolving relationships, policies and game rules, and collective behaviors. The orientation is grounded in both Chinese historical and cultural legacies and the contexts of China's state building, modernization and globalization. The course covers a wide array of topics in primarily three areas: international relations, investment and trade, and market competition.

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## Chinese Politics and Society 中国的政治与社会

**Course ID: 30340038 Credit: 2**

**Language: English**

**Pre-requisites: No pre-requisites**

### **Introduction**



This course offers a general introduction to the politics of People's Republic of China with a focus on the Reform Era. The primary objective is to provide a working knowledge for understanding political events in contemporary China. There are no prerequisites for the course. It is divided into three parts. The first part offers a historical background, the second discusses the evolution of political institutions, and the third reviews the changing relations between ordinary people and the Chinese state.

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## Topics on Chinese Economy 中国经济专题

**Course ID: 30340039 Credit: 2**

**Language: English**

**Pre-requisites: Junior or senior year undergraduate students, Economics or Business major preferred.**

### Introduction

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 both an overview and special perspectives of the Chinese economy. The topics covered include an introduction of the Chinese economic history, the market transition, the background and implications of the urban-rural divide, demographic transition, population policy and the related labor market issues, the growth and structural change, inequality and poverty, financial issues, land economics, economic planning and development model, 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.

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## Literature, Arts and Society in New China 新中国：文艺与社会

**Course ID: 30340044 Credit: 2**

**Language: English**

**Pre-requisites: No pre-requisites**

### Introduction

This course helps students not only to appreciate literary, visual and cultural expressions and representations of New China beginning from 1949, but also to better understand fundamental changes in the new society that is taking shape. All texts in discussion, including prose essays, fiction, script, poetry, expository and journalistic writings, are translated into English. In addition, there will be some classical movie screenings in and outside class (documentaries, opera and drama films, etc). Course discussion will emphasize on both the content and formal and stylistic aspects of the works. Attendance at all sessions is required. If you must miss a class, please notify the instructor in advance. You are responsible for materials and assignments given during a missed session. Students are required to write critical, expository essays. All students should actively participate in class discussion.

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## Local Government and Politics in China 中国地方政府与政治

**Course ID: 30340045 Credit: 2**

**Language: English**

**Pre-requisites: No pre-requisites**

### **Introduction**

This is an introductory course of the local government and politics in China, covers the central-local relationships, local people's congress, local government and business, labor and peasants, and how the local state promotes or constraints economic development and social change of China after 1949. Lectures will be supplemented by videos, class discussion.

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## Chinese Traditional Identity and its transformation after 1949 中国传统认同与其现代变迁

**Course ID: 30340048 Credit: 2**

**Language: English**

**Pre-requisites: No pre-requisites**

### **Introduction**

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.

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## MAJOR ISSUES CONCERNING THE RISE OF CHINA “中国崛起”专题研讨课

**Course ID: 30340049 Credit: 2**

**Language: English**

**Pre-requisites: No pre-requisites**

### Introduction

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.

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## Chinese Traditional Body Exercise, Diet and Health Preservation 中国传统健身、饮食与养生

**Course ID: 30340052 Credit: 2**

**Language: English**

**Pre-requisites:** No pre-requisites to enroll in this course. All undergraduates might be the Target audience.

**Introduction**

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.

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**China' s Constitution and Political System 中国的宪法和政治体系**

**Course ID: 30340053 Credit: 2**

**Language: English**

**Pre-requisites:** This course is for undergraduate students. No particular pre-knowledge about China's constitution and political system is required.

**Introduction**

This course is intended for undergraduate students to understand basic components of China's constitution and political system. It combines theoretical analysis with factual introduction, with the aim of enabling students to be quickly familiar with constitutional issues in China. Two theoretical questions will be asked throughout the course: 1. What is the relationship between law and political regime in China? 2. How do we understand the gap between law on paper and rule in reality in China? Guided by these two central questions, this course roughly breaks into three sections: 1. How do we read China's Constitution; 2) Constitutional law and political regime; 3) Constitution and political reform. Under each section, a few sub-topics are to be specified.

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**China' s Reform and Global Economy 中国改革与世界经济**

**Course ID: 30340054 Credit: 2**

**Language: English**

**Pre-requisites:** No pre-requisite is required, but some basic knowledge on economics will help.

#### **Introduction**

The central theme of this course is China's role in world economy. Revolving around that, there are three layers of objectives of this course. Firstly, it aims to help international students to understand the global economic structure, institutions and mechanisms where the Chinese economy is sitting; Secondly, it aims to help them to understand Chinese economic reform; Thirdly, emphasis of this course is the interaction between China and the rest of world in the economic front. Specifically, the course will cover some major issues of Chinese economy, such as urban-rural divide, SOE reform, financing issues, sustainable development, economic growth mode ect., the roadmap of China's reform and opening-up, China's interaction with the outside world in terms of trade, finance, investment, energy, and participation in international economic institutions, and the implications of Chinese economic reform on the global economy. 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.

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## Special Topics in Chinese Economy 中国经济专题

**Course ID: 30340055 Credit: 2**

**Language: English**

**Pre-requisites:** No pre-requisite

#### **Introduction**

Course Content and Approach Over three decades, the Chinese economy undergone a rapid economic transformation at an unprecedented pace and scale. Transforming from a centrally planned economy to a market-oriented system – institutional change induced fiscal, agricultural, enterprise as well as financial system and banking reforms – that ushered an era of industrialization and globalization. After experiencing decades of sustained growth, Chinese economy is at a crossroad – with emerging issues of economic imbalance, environmental degradation, inequity, social security to aging population compels scholars to rethink China's development path. The course aims to challenge students to develop a critical view of the 'China miracle' and obtain an informed perspective of developmental approach that China should take in the future. This intense course focus on the special topics that are key to China's future economic development. Throughout the

course, case studies and special topic research will serve as core teaching material.

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## FLOWER IN THE MIRROR: THE CHINESE VALUES 镜中观花：中国人的价值观

**Course ID: 30340056 Credit: 3**

**Language: English**

**Pre-requisites: No pre-requisite**

### **Introduction**

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.

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## Chinese History and Culture in a Global Context 全球视野下的中国历史与文化

**Course ID: 30340057 Credit: 2**

**Language: English**

**Pre-requisites:** Students wishing to enroll in this course are expected to have basic knowledge of Chinese history and culture.

### **Introduction**

This course is designed to help students understand China's significant historical events, Chinese myths, legends, and influential philosophical thoughts, Ancient Chinese inventions and education system, social rituals and family structure, female role change in modern society, China's political structure and foreign policy, China's interaction with the West, nationalism and the other topics. All analyses and discussions will be put into a global context. Students are required to follow closely to what is happening in modern China on a daily basis and put forward your views in relation to what you have learnt in class. This course offers different

perspectives on Chinese history and culture. Through lectures, presentations, videos, discussions, and some other activities, students will be able to have a better understanding of China, especially how the Chinese think and behave, how to get along with them, and how to do business with the Chinese.

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## Social Issues and Policy Responses in Contemporary China 当代中国的社会问题与政策应对

**Course ID: 30340058 Credit: 2**

**Language: English**

**Pre-requisites: No pre-requisite**

### Introduction

This course is an empirical evidence based course. It will provide an overview of the contemporary discussions on issues related to poverty, education, health care services, and social welfare in China. It will also introduce students the policy responses toward these issues, as well as basics on social research methods and policy analysis theories. At the conclusion of this course, students will be able to understand the role of public policy and its implementation in producing, maintaining and alleviating social problems in China. Furthermore, students will obtain a solid understanding of some fundamental theoretical and methodological frameworks. The content of this course will be delivered with lectures, together with student presentations and discussions. The course has eight topics that will be introduced in four weeks. Students are expected to actively participate in discussions in class. This course welcomes diverse points of view. Students should read the assigned materials before attending the lectures. Also, students are expected to discuss the assigned articles and relevant social issues in class.

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## Classical Chinese Poetry 中国古典诗词

**Course ID: 30340059 Credit: 2**

**Language: English**

**Pre-requisites: Some basic knowledge of Chinese is preferable, but not mandatory.**

### Introduction

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, 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.

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## International Human Resource Management: West, East, and the Emerging Markets 国际人力资源管理：东方、西方和新兴市场

**Course ID: 30340060 Credit: 2**

**Language: English**

**Pre-requisites: There is no prerequisite for this course.**

### **Introduction**

Country-firm specific cases will be incorporated in the multinational context with special attention to comparative human resource management practices, challenges, and the role of HR in global strategic decisions involving diverse countries and regions such as China, India, Europe, and the United States. This course is an advanced seminar in International Human Resource Management. The course is designed to introduce students to the nature of developing and managing human resources in international, multinational, global, and transnational firms. It explores the complexity, challenges, and choices that firms are faced with and strategies they use to effectively develop and manage their international workforce in culturally and geographically diverse environments. The course distinguishes international from domestic HR practices. It provides students with an in-depth understanding of the basic problems inherent in IHRM as well as a sound basis to further explore the international dimensions for future business and career aspirations. The principle focus of this course is the development of global leaders through cross-cultural awareness, interactive learning, comparative research experience, and analysis of the expatriation and repatriation processes.

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## 中国社会的转化 Transformation of Chinese Society: Revolution and Reform

**课程号: 30340061 学分: 2**

**先修课程：**无

### 课程简介

香港理工大学应用社会科学系副教授严海蓉博士开设课程，对北大学生开放 20 个名额。6 月 30 日-7 月 6 日密集授课。

此课程是让学生认识中国在二十世纪初，社会及政治的转变。在不同时代，社会内不同的关系：如中国与全球、城乡、男女、知识分子及农民等的形成及转化，特别可检视在中国城乡转化过程中，形成的不同影响，明白今天的中国情况，使学生能分析全球化下如何促进及限制中国的发展。

This course aims to provide students with a foundational knowledge of social transformation of China since the early 20th Century. Students will learn about how major social relations –relations between China and the world, between the countryside and the city, between men and women, between intellectuals and peasants, etc.--have been reconstructed in each import period of modern China. They will learn to evaluate social transformation from the perspectives of rural and urban livelihoods. In the process, they will gain critical understanding of “national conditions” that both enables and constrains China’s development in the global context.

授课方式：有课堂授课，视频播放，小组讨论及回应，亦会参观中国革命博物馆、卢沟桥、小毛驴有机农场

考核方式：测验 40%；参观报告 40%；课堂参与 20%；

课堂时数：42 课时

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## 朋辈心理辅导 Peer Counseling

**课程号：**61030030 **学分：**2

**先修课程：**无

### 课程简介

生活中，人们通常会告诉他们的朋友，同辈或家里人他们的烦恼，先于寻求职业心理辅导人士的帮助。朋辈辅导就是这样一种特殊的心理咨询形式，它是由受训或督导过的非专业人员提供具有心理辅导功能的帮助的过程。在这个过程中，朋辈辅导助理通过运用积极倾听、问题解决等技巧，同时结合关于人的发展和精神健康的知识来辅导他人，为同辈提供心理和情绪的支持。本课程将介绍朋辈心理辅导的基本概念、技巧、伦理以及辅导中面临的一些具体问题，如文化种族、性倾向的影响、恋爱问题处理等。

In our daily life, people often tell friends, peers, family of their distress before they tell professional counselors. Peer counseling is such a special kind of psychological counseling, conducted by trained or supervised unprofessional people, providing helps having some counseling effects. In this process, through the use of active listening and problem solving skills combining knowledge about human development and mental health, peer counselors instruct their companions and provide them with psychological and emotional support. In this course, the basic concept, skills and ethic of peer counseling will be introduced, as well as some practical problems such as culture, race, sexual orientation and romantic relationship. As a general course, these goals are to reach: Students can have basic knowledge of peer counseling; Some basic peer counseling skills can be mastered and used in practical situations; This course also helps student in viewing their own mental health and improving it with related knowledge.

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