



北京理工大学
BEIJING INSTITUTE OF TECHNOLOGY

English Taught Programs for Undergraduates

- 1. Aerospace Engineering (Updated)**
- 2. Mechanical Engineering (Updated)**
- 3. Automation**
- 4. Electronics Science and Technology**
- 5. Computer Science and Technology**
- 6. International Economics and Trade (Updated)**

English-taught Program in Aeronautical and Astronautical Engineering (Updated)

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	100370022.0	工程热力学	An Introduction to Thermodynamics	2.5	5.0	Fall
2	100370033.0	飞行器结构力学基础	Fundamentals of aircraft structural mechanics	3.0	5.0	Fall
3	100370024.0	复合材料力学	Mechanics of Composite Materials	3.0	5.0	Fall
4	100370025.0	航天器轨道动力学	Spacecraft Orbital Dynamics	2.0	5.0	Fall
5	新开课	航天工程概论	Introduction to Aerospace Engineering	2.0	5.0	Spring
6	100370028	纳米科学与技术	Nano-science and Technology	2.0	6	Spring
7	100370027	优化设计原理	Optimization Design Methods	2.0	6	Spring
8	100370026	传热与燃烧学导论	Introduction to heat transfer and combustion	2.0	6	Spring
9	100370032	喷气推进	Jet Propulsion	2	7	Fall
10	100370031	飞行动力学与控制	Flight Dynamics & Control	2	7	Fall
11	100017013	结构动力学基础	Fundamentals of Structural Dynamics	2	6	Spring
12	102016001	飞行器制导与控制（双语）	Flight Vehicle Guidance and Control	2.0	6	Spring

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English-taught Program in Mechanical Engineering (Updated)

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime	Note
1	101037333	机械工程专业导论（英文）	Introduction to Mechanical Engineering	0	1	September	
2	101037345	机械工程专业导论（英文）	Introduction to Mechanical Engineering	1	1	September	张旭 Zhang Xu
3	101030110	计算机技术与编程（全英文）	Computer Science and Programming	3	1	September	罗龙溪 Luo Longxi
4	101031102	工程制图基础（全英文）	Engineering Graphics Fundamental	2	2	March	罗会甫 Luo Huifu
5	101037302	工程制图（英文）	Engineering Graphics	4	2	March	罗会甫 Luo Huifu
6	101037344	工程概论与伦理（英文）	Engineering Fundamentals and Ethics	1	3	September	伍岳 Wu Yue
7	101037324	工程设计实践（英文）	Engineering Design Practice	2	3	September	罗会甫 Luo Huifu
8	101037334	工程创新实践（双语）	Engineering Innovative Practice	1	3	September	李忠新 Li Zhongxin
9	101037327	复变函数与积分变换（全英文）	Complex Variables and Integral Transform	2	3	September	梅冰昂 Mei Bing'ang
10	100033415	计算方法（英文）	Computational Methods	2	4	March	白影春 Bai Yingchun

11	101037304	机械原理（英文）	Theory of Machines and Mechanisms	3	4	March	王晓力 Wang Xiaoli
12	101037305	工程材料与应用（英文）	Principle and Application of Engineering materials	3	4	March	孙娜 Sun Na
13	101037306	热力学（英文）	Thermodynamics	3	4	March	郑宏飞，马兴龙 Zheng Hongfei, Ma Xinglong
14	101037307	机械设计（英文）	Machine Design	3	5	September	梁鹤 Liang He
15	101037309	传热学（英文）	Hear Transfer	2	5	September	刘淑丽 Liu shuli
16	101037310	机械振动（英文）	Mechanical Vibrations	3	5	September	冯慧华 Feng Huihua
17	101037311	系统建模与仿真（英文）	Modelling and Simulation of Systems	3	5	September	邹渊 Zou Yuan
18	101037325	计算机辅助 设计与工程（英文）	Computer -Aided Design and Engineering	3	5	September	张旭 Zhang Xu
19	101037312	中国文化与 跨文化交流（英文）	Chinese Culture & Cross-Cultural Communications	1	6	March	李娜 Lena
20	101037315	控制原理与测试（英文）	Principle of Control and Instrumentation	3	6	March	黄杰 Huang Jie
21	101037316	流体力学（英文）	Fluid Mechanics	3	6	March	张敏弟，章振宇 Zhang Mindi, Zhang Zhenyu
22	101037317	机械制造与装备（英文）	Manufacturing and Machine Tools	4	6	March	解丽静，张雨甜 Xie Lijing, Zhang Yutian

23	101037318	内燃机构造与原理（英文）	Internal Combustion Engine Fundamentals	4	6	March	刘波澜, 王恩华 Liu Bolan, Wang Enhua
24	101037319	汽车结构与设计（英文）	Automotive Structure and Design	4	6	March	刘海鸥, 王博洋 Liu Haiou, Wang Boyang
25	101037328	产品设计与开发（英文）	Product Design and Development	2	7	September	张旭 Zhang Xu
26	101037329	动力与储能电池技术（英文）	Battery Technologies for Vehicle & Energy Storage Applications	2	7	September	杨晓光 Yang Xiaoguang
27	101037322	能源系统及设计（英文）	Energy System and Design	3	7	September	贾博儒 Jia Boru
28	101037320	工程管理（英文）	Engineering Management	3	7	September	杨晓楠 Yang Xiaonan
29	101037321	专业课程设计（英文）	Engineering Design Project	3	7	September	张旭 Zhang Xu
30	101037337	工程科学计算（英文）	Scientific Computig Methods in the Realm of Engineering	2	7	September	吉鹏飞 Ji Pengfei
31	101037338	电池与电池管理系统基础（英文）	Battery Management Systems for Electric Vehicle	2	7	September	林倪 Lin Ni
32	101037339	脑机接口(英文)	Brain Computer Interface	2	7	September	ABERHAM GENETU FELEKE
33	101037335	车辆排放：原理、测试与控制（英文）	Vehicle Emissions: Sources, Measurement, and Control	2	7	September	王欣 Wang Xin

34	101037336	自动驾驶深度学习（英文）	Deep Learning for Autonomous Driving	2	8	March	蒋朝阳，李颖 Jiang Chaoyang, Li Ying
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English-taught Program in Automation					
No.	Course Code	Course Title	Course Title	Credits	Semester
1	101062120	电磁场（英文）	Engineering Electromagnetic Field	3	Spring
2	101063108	自动控制理论 I（英文）	Control Theory I	4	Spring
3	101063114	计算机控制系统（英文）	Computer Controlled System	2.5	Spring
4	101063112	电机及控制（英文）	Electrical Machine and Drive	5	Spring
5	101063113	传感器与检测技术（英文）	Sensor and Measurement Technology	2.5	Spring
6	101063115	概率建模与离散事件系统仿真	Probabilistic Modeling and Discrete-Event System Simulation	2	Spring
7	101063116	卡尔曼滤波与惯性导航基础	Fundamentals of Kalman Filtering and Inertial Navigation	2	Spring
8	101062102	电路分析基础A(英文)	Fundamentals of Electric Circuit Analysis	3.5	Spring
9	101062219	电路分析基础实验A（英文）	Electric Circuit Lab	1	Spring

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English-taught Program in Electronics Science and Technology

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	101130006	集成电路与微纳芯片技术导论（全英文）	Introduction to Integrated Circuits, Microsystems and Nanotechnology	2	1	September
2	101051220	电路与模拟电子学（全英文）	Circuits and Analog Electronics	6	3	September
3	101051221	数字电路与系统（全英文）	Digital Circuits and Systems	4	4	March
4	101052213	信号与系统（全英文）	Signals and Systems	4	4	March
5	101054203	电磁场理论与微波工程（全英文）	Electromagnetic Fields Theory and Microwave Engineering	4	4	March
6	101130002	半导体物理与器件（全英文）	Semiconductor Physics and Devices	3	4	March
7	102130001	电子通信电路（双语）	Electronic Communication Circuits	2	4	March
8	101130004	光电子学导论（全英文）	Introduction to Optoelectronics	3	5	September
9	101130005	纳米电子器件（全英文）	Nanoelectronics Devices	3	5	September
10	101130001	MEMS与传感器（全英文）	MEMS and Sensors	2	6	March
11	102130002	嵌入式系统原理与设计（双语）	Principle and Design of Embedded System	4	6	March
12	102130004	集成电路制造技术（双语）	Micro-Nano Manufacturing Technology	2	6	March

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English-taught Program in Computer Science and Technology

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	100071011	计算机网络	Computer Networks	3	6	March
2	100074320	编译原理与设计	Compiler Principles and Design	3	6	March
3	101081062	大数据处理技术	Big Data Processing Technology	2	6	March
4	100076218	数据科学与算法	Data Science and Algorithms	2	6	March
5	100074302	机器学习初步	Machine Learning Fundamentals	2	6	March
6	100073009	计算机网络课程设计	Experiment of Computer Networks	1	7	September
7	100081064	大数据应用算法	Big Data Application Algorithm	2	7	September

***Please NOTE: Courses may CHANGE based on the school's arrangements (especially Semester 4); please refer to the ACTUAL course offerings.**

English-taught Program in International Economics and Trade (Updated)						
No.	Course Code	Course Title (in Chinese)	Course Title (in English)	Credits	Semester	Semester Time
1	101210026	会计学基础	Fundamentals of Accounting	2	2	March
2	101210005	管理学原理	Principles of Management	2	2	March
3	101210260	国际经济学(I)	International Economics	2	3	September
4	101210264	中级微观经济学	Intermediate Microeconomics	2	3	September
5	101210025	宏观经济学	Macroeconomics	2	3	September
6	101210027	财务管理概论	Introduction to Financial Management	2	3	September
7	101210263	国际商务沟通	International Business Communication	3	4	March
8	101210310	应用统计学	Applied Statistics	3	4	March
9	101210040	计量经济学	Econometrics	2	4	March
10	101210265	中级宏观经济学	Intermediate Macroeconomics	2	4	March
11	101210097	国际市场营销	International Marketing	3	4	March
12	101210261	国际经济学 (II)	International Economics (I)	2	4	March
13	101210218	创新与创业管理	Innovation and Entrepreneurial Management	2	6	March
14	101210035	货币银行学	Monetary Banking	2	6	March
15	101210266	中级计量经济学	Intermediate Econometrics	2	6	March
16	101210037	国际商法	International Business Law	2	6	March
17	101210384	数字贸易学	Digital Trade	2	6	March
18	101210083	世界经济	World Economy	2	6	March
19	101210084	证券投资学	Securities Investment	2	6	March
20	101210387	数字金融导论	Introduction of Digital Finance	2	6	March
21	101210270	中国经济	China Economy	2	6	March
22	100210266	时间序列分析	Time Series Analysis	2	6	March

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