# English Taught Programs for Undergraduates

1. Aerospace Engineering (Updated)

2. Mechanical Engineering (Updated)

3. Automation (Waiting for Update)

4. Electronics Science and Technology (Updated)

5. Computer Science and Technology (Updated)

6. International Economics and Trade (Waiting for Update)

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

| No. | Course Code | Course Title | Course Title | Credits | Semester | Semester Time |
|---|---|---|---|---|---|---|
| 1 | 100370022 | 工程热力学 | An Introduction to Thermodynamics | 2.5 | 5 | Fall |
| 2 | 100370023 | 结构力学 | Structural Analysis | 3.0 | 5 | Fall |
| 3 | 100370024 | 复合材料力学 | Mechanics of Composite Materials | 3.0 | 5 | Fall |
| 4 | 100370025 | 航天器轨道动力学 | Spacecraft Orbital Dynamics | 2.0 | 5 | Fall |
| 5 | 100370028 | 纳米科学与技术 | Nano-science and Technology | 2.0 | 6 | Spring |
| 6 | 100370027 | 优化设计原理 | Optimization Design Methods | 2.0 | 6 | Spring |
| 7 | | 燃烧理论 | Introduction to heat transfer and combustion | 2.0 | 6 | Spring |
| 8 | 100370032 | 喷气推进 | Jet Propulsion | 2 | 7 | Fall |
| 9 | 100370031 | 飞行动力学与控制 | Flight Dynamics & Control | 2 | 7 | Fall |
| 10 | 102016001 | 飞行器制导与控制（双语） | Flight Vehicle Guidance and Control | 2.0 | 6 | Spring |

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| 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 |

**English-taught Program in Mechanical Engineering (Updated)**

| 10 | 100033415 | 计算方法（英文） | Computational Methods | 2 | 4 | March | 白影春<br>Bai Yingchun |
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| 11 | 101037304 | 机械原理（英文） | Theory of Machines and Mechanisms | 3 | 4 | March | 王晓力<br>Wang Xiaoli |
| 12 | 101037305 | 工程材料与应用（英文） | Principle and Application of Engineering materials | 3 | 4 | March | 孙娜<br>Sun Na |
| 13 | 101037306 | 热力学（英文） | Thermodynamics | 3 | 4 | March | 郑宏飞，马兴龙<br>Zheng Hongfei,<br>Ma Xinglong |
| 14 | 101037341 | ROS系统开发与实践（英文） | Development and Practice of ROS System | 1 | 5 | September | 张旭东<br>Zhang Xudong |
| 15 | 101037307 | 机械设计（英文） | Machine Design | 3 | 5 | September | 梁鹤<br>Liang He |
| 16 | 101037309 | 传热学（英文） | Hear Transfer | 2 | 5 | September | 刘淑丽<br>Liu shuli |
| 17 | 101037310 | 机械振动（英文） | Mechanical Vibrations | 3 | 5 | September | 冯慧华<br>Feng Huihua |
| 18 | 101037311 | 系统建模与仿真（英文） | Modelling and Simulation of Systems | 3 | 5 | September | 邹渊<br>Zou Yuan |
| 19 | 101037325 | 计算机辅助<br>设计与工程（英文） | Computer -Aided Design and Engineering | 3 | 5 | September | 张旭<br>Zhang Xu |
| 20 | 101037312 | 中国文化与<br>跨文化交流（英文） | Chinese Culture &<br>Cross-Cultural Communications | 1 | 6 | March | 李娜<br>Lena |

| 21 | 101037315 | 控制原理与测试（英文） | Principle of Control and Instrumentation | 3 | 6 | March | 黄杰<br>Huang Jie |
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| 22 | 101037316 | 流体力学（英文） | Fluid Mechanics | 3 | 6 | March | 张敏弟，章振宇<br>Zhang Mindi, Zhang Zhenyu |
| 23 | 101037317 | 机械制造与装备（英文） | Manufacturing and Machine Tools | 4 | 6 | March | 解丽静，张雨甜<br>Xie Lijing, Zhang Yutian |
| 24 | 101037318 | 内燃机构造与原理（英文） | Internal Combustion Engine Fundamentals | 4 | 6 | March | 刘波澜，王恩华<br>Liu Bolan, Wang Enhua |
| 25 | 101037319 | 汽车结构与设计（英文） | Automotive Structure and Design | 4 | 6 | March | 刘海鸥，王博洋<br>Liu Haiou,Wang boyang |
| 26 | 101037328 | 产品设计与开发（英文） | Product Design and Development | 2 | 7 | September | 张旭<br>Zhang Xu |
| 27 | 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<br>Yang Xiaoguang |
| 28 | 101037322 | 能源系统及设计（英文） | Energy System and Design | 3 | 7 | September | 贾博儒<br>Jia Boru |
| 29 | 101037320 | 工程管理（英文） | Engineering Management | 3 | 7 | September | 宫琳<br>Gong Lin |
| 30 | 101037321 | 专业课程设计（英文） | Engineering Design Project | 3 | 7 | September | 张旭<br>Zhang Xu |
| 31 | 101037337 | 工程科学计算（英文） | Scientific Computig Methods in the Realm of Engineering | 2 | 7 | September | 吉鹏飞<br>Ji Pengfei |

| 32 | 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 |
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| 33 | 101037339 | 脑机接口(英文) | Brain Computer Interface | 2 | 7 | September | ABERHAM GENETU FELEKE |
| 34 | 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 |
| 35 | 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 | SemesterTime |
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# English-taught Program in Electronics Science and Technology (Updated)

| 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 | 101056415 | 集成电路工程（全英文） | Integrated Circuits Engineering(English) | 4 | 5 | September |
| 11 | 101130001 | MEMS与传感器（全英文） | MEMS and Sensors | 2 | 6 | March |
| 12 | 102130002 | 嵌入式系统原理与设计（双语） | Principle and Design of Embedded System | 4 | 6 | March |
| 13 | 102130003 | 微纳制造工艺（双语） | Micro-Nano Fabrication Process | 3 | 6 | March |
| 14 | 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 (Updated)

| No. | Course Code | Course Title | Course Title | Credits | Semester | SemesterTime |
|---|---|---|---|---|---|---|
| 1 | 100076101 | 大数据技术导论 | Introduction to Big Data Technology | 2 | 3 | September |
| 2 | 100071015 | 数据结构与算法设计 | Data Structures and Algorithms | 5 | 3 | September |
| 3 | 100081042 | 离散数学 | Discrete Mathematics | 4 | 3 | September |
| 4 | 100070019 | Python语言程序设计 | Introduction to Programming using Python | 1 | 3 | September |
| 5 | 100072103 | 数据库原理与设计 | Database Principle and Design | 3 | 4 | March |
| 6 | 100076213 | 计算机图形学 | Computer Graphics | 2 | 4 | March |
| 7 | 100072107 | 面向对象技术与方法 | Object-Oriented Programming | 2.5 | 4 | March |
| 8 | 100081004 | 数字逻辑基础 | Fundamentals of Digital Circuits | 2 | 4 | March |
| 9 | 100081052 | 计算机组成与体系结构 | Computer Organization and Architecture | 3 | 5 | September |
| 10 | 100071007 | 操作系统 | Operating System | 3 | 5 | September |
| 11 | 100085042 | 数据仓库与数据挖掘 | Data Warehouse and Data Mining | 3 | 5 | September |
| 12 | 100081063 | 大数据分析技术 | Big Data Analyics | 2 | 5 | September |
| 13 | 100076226 | 人工智能基础 | Introduction of Artificial Intelligence | 2 | 5 | September |
| 14 | 100071011 | 计算机网络 | Computer Networks | 3 | 6 | March |
| 15 | 100074320 | 编译原理与设计 | Compiler Principles and Design | 3 | 6 | March |
| 16 | 101081062 | 大数据处理技术 | Big Data Processing Technology | 2 | 6 | March |
| 17 | 100076218 | 数据科学与算法 | Data Science and Algorithms | 2 | 6 | March |
| 18 | 100074302 | 机器学习初步 | Machine Learning Fundamentals | 2 | 6 | March |
| 19 | 100081064 | 大数据应用算法 | Big Data Application Algorithm | 2 | 7 | September |

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## English-taught Program in International Economics and Trade

| No. | Course Code | Course Title (in Chinese) | Course Title (in English) | Credits | Semester | Semester Time |
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