

10. 力学 Mechanics

Course Category 课程类别		Course title 课程名称	Credit 学分	Term 学期	School by which Courses opened 开课学院	Remark 备注
Degree Courses 学位课	Compulsory Subjects for all Students 公共必修	Overview of China 中国文化概论	3	1	Overseas Education College 海外教育学院	Compulsory 必修
		Chinese 汉语	4	1, 2	Overseas Education College 海外教育学院	
	Fundamental Theories 基础理论	Equations of Mathematical Physics 数理方程	2	1	Faculty of Science 理学院	Choose any two 必修 2 门
		Numerical Analysis Methods 数值分析	2	1	Faculty of Science 理学院	
		Mathematical Statistics 数理统计	2	1	School of Finance 财经学院	
		Matrix 矩阵论	2	1	Faculty of Science 理学院	
	Professional Foundation or Specialized Courses 专业基础	Theory of Elasticity &Plastoelasticity 弹塑性力学	4	1	Faculty of Civil Engineering and Mechanics 土木工程与力学学院	Choose at least two 至少选 2 门
		Basis of Vibration theory 振动理论基础	4	2	Faculty of Civil Engineering and Mechanics 土木工程与力学学院	
		Solid Experimental Mechanics 固体实验力学	4	2	Faculty of Civil Engineering and Mechanics 土木工程与力学学院	
		Viscous Fluid Mechanics 粘性流体力学	2	1	School of energy and power engineering 能动学院	
		Computational Fluid Mechanics 计算流体力学	2.5	2	School of energy and power engineering 能动学院	
		Finite Element Method 有限单元法	2	2	Faculty of Civil Engineering and Mechanics 土木工程与力学学院	
Specialized Elective Courses 专业选修课		Smart Material and Structure Mechanics 智能材料与结构力学	3	2	Faculty of Civil Engineering and Mechanics 土木工程与力学学院	Choose at least two 至少选 2 门
		Multiscale Mechanics 多尺度力学	4	2	Faculty of Civil Engineering and Mechanics 土木工程与力学学院	

		Composite Mechanics 复合材料力学	2	2	Faculty of Civil Engineering and Mechanics 土木工程与力学学院	
		Modern nonlinear dynamics analysis method 非线性动力学现代分析方法	4	2	Faculty of Civil Engineering and Mechanics 土木工程与力学学院	
		Micro Flows Theory and Simulation 微尺度流动理论与数值模拟	2	2	Energy and Power Engineering 能动学院	
		Modern Flow Measurement and Visualization Techniques 流动现代测量及显示技术	2	2	Energy and Power Engineering 能动学院	
Selective for All 公共选修课	Research and Information Literacy I 研究及信息素养 I	Literature Retrieval & Utilization 文献检索	1	1	Graduate School Overseas Education College 研究生院 海外教育学院	Selective 任选
		Paper Writing 论文写作	1	2		
	Research and Information Literacy II 研究及信息素养 II	Patent Application 专利申请	1	2		
Practice Procedure 实践环节		Special Practice 专业实践	2	2	Faculty of Civil Engineering and Mechanics 土木工程与力学学院	
Scientific Frontiers &Symposiums 学术前沿及学术交流			1	1, 2		
Supplementary courses 补修课程		Theoretical Mechanics 理论力学	3	1	Faculty of Civil Engineering and Mechanics 土木工程与力学学院	At least two for Trans-disciplinary students 跨学科入学至少必修 2 门
		Mechanics of Material 材料力学	3	1	Faculty of Civil Engineering and Mechanics 土木工程与力学学院	
		Fluid Mechanics 流体力学	3	1	Energy and Power Engineering 能动学院	