材料科学与工程专业教学计划安排表

| У Ш | | | 课程名称 | | 学 | 时 | | | 各学 | 期计 | 划学 | 分 | | | |
|------------|----------|--------|--|----|----|------|---|---|----|----|----|---|---|---|----|
| | ·程 ·别 | 课程编号 | | 学分 | 授课 | 实验上机 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 备注 |
| | | 391011 | 思想道德修养和法律基础(Morality & Fundamentals of Law) | 3 | 48 | | 3 | | | | | | | | |
| | | 391012 | 中国近代史纲要(Outline of Chinese Modern History) | 2 | 32 | | | | 2 | | | | | | |
| | | 391502 | 毛泽东思想和中国特色社会主义理论体系概论(上)(Introduction to Mao's Thoughts and the theoretical system of socialism with Chinese characteristics) | 3 | 48 | | | | | 3 | | | | | |
| | | 391503 | 毛泽东思想和中国特色社会主义理论体系概论(下)(Introduction to Mao's Thoughts and the theoretical system of socialism with Chinese characteristics) | 3 | 48 | | | | | | 3 | | | | |
| | | 391014 | 马克思主义基本原理(Basic Principle of Marxism) | 3 | 48 | | | 3 | | | | | | | |
| | | 391015 | 形势与政策(Policy & Political Situation Analysis) | 2 | 32 | | | | 2 | | | | | | |
| | | 001001 | 军事理论(Military Theory) | 1 | 32 | | | 1 | | | | | | | |
| | 公 | 491001 | 体育(I)(Physical Education (I)) | 1 | 32 | | 1 | | | | | | | | |
| 平 | 共基 | 491002 | 体育(II)(Physical Education(II)) | 1 | 32 | | | 1 | | | | | | | |
| 台课 | 础 平 | 491003 | 体育(III)(Physical Education (III)) | 1 | 32 | | | | 1 | | | | | | |
| | 台课 | 491004 | 体育(IV)(Physical Education (IV)) | 1 | 32 | | | | | 1 | | | | | |
| | | 371013 | 大学英语读写(I)(College English Reading & Writing(I)) | 2 | 32 | | 2 | | | | | | | | |
| | | 371021 | 大学英语听说(I)(College English Listening & Speaking(I)) | 1 | 16 | | 1 | | | | | | | | |
| | | 371015 | 大学英语读写(II)(College English Reading & Writing(II)) | 2 | 32 | | | 2 | | | | | | | |
| | | 371022 | 大学英语听说(II)(College English Listening & Speaking(II)) | 1 | 16 | | | 1 | | | | | | | |
| | • | 371017 | 大学英语读写(III)(College English Reading & Writing(III)) | 2 | 32 | | | | 2 | | | | | | |
| | • | 371023 | 大学英语听说(III)(College English Listening & Speaking(III)) | 1 | 16 | | | | 1 | | | | | | |
| | | 371019 | 大学英语读写(IV)(College English Reading & Writing(IV)) | 2 | 32 | | | | | 2 | | | | | |
| | | 371024 | 大学英语听说(IV)(College English Listening & Speaking(IV)) | 1 | 16 | | | | | 1 | | | | | |
| | | 241012 | 大学计算机基础 (Introduction to Computer) | 2 | 32 | | 2 | | | | | | | | |
| | | 241013 | 高级语言程序设计(C语言程序设计) | 3 | 48 | | | 3 | | | | | | | |

| 22 | | | | | | | | | | | | |
|-----------------|-------|---|-----|----|-----|---|-----|-----|-----|-----|---|--|
| | 1009 | 大学物理 C(I)(College Physics A(I)) | 3 | 48 | | | 3 | | | | | |
| 22 | 21010 | 大学物理 C(II)(College Physics A (II)) | 3 | 48 | | | | 3 | | | | |
| 21 | 1016 | 微积分 A(I)(Calculus A (I)) | 5 | 80 | | 5 | | | | | | |
| 21 | 1017 | 微积分 A (II)(Calculus A (II)) | 5 | 80 | | | 5 | | | | | |
| 21 | 1005 | 线性代数 A (Linear Algebra A) | 3 | 48 | | 3 | | | | | | |
| 21 | 1007 | 概率论与数理统计 Probability Theory and Statistic A | 3 | 48 | | | 3 | | | | | |
| | | 校文化素质教育课(Cultural Education Couse) | 4 | 64 | | | | | | | | |
| 01 | 1005 | 工程制图(Descriptive Geometry & Mechanical Drawing) | 3 | 48 | | 3 | | | | | | |
| 232 | 32012 | 普通化学(General Chemistry) | 4 | 64 | | 4 | | | | | | |
| 022 | 22105 | 电工学 C(Electrotechnic) | 4 | 64 | | | | | 4 | | | |
| 082 | 2068 | 材料科学基础(Fundamentals of materials science) | 4 | 64 | | | | | 4 | | | |
| 082 | 2006 | 材料近代研究方法(Recent Methods of Materials Analysis) | 3 | 48 | | | | | | 3 | | |
| 学 科 | 2004 | 材料物理性能(Physical Properties of Materials) | 2 | 32 | | | | | | 2 | | |
| 基 23 | 31021 | 物理化学(Physical Chemistry) | 5 | 90 | | | | 5 | | | | |
| 础 平 082 台 | 2067 | 材料科学与工程导论(Introduction of materials science & engineering) | 1 | 16 | | 1 | | | | | | |
| >ш | 32052 | 工程力学(Engineering Mechanics) | 4 | 64 | | | | 4 | | | | |
| 082 | 32069 | 机械设计基础(Introduction to Mechanical Design) | 2 | 32 | | | | | 2 | | | |
| 082 | 2080 | 大学生创业培训 | 1 | | | | | | | | 1 | |
| 082 | 2079 | 文献检索与科技论文写作 | 1 | | | | | | | | 1 | |
| 082 | 2081 | 材料产业管理工程 | 1 | | | | | | | | 1 | |
| 082 | 2082 | 资源与可持续发展 | 2 | | | | | | | | 2 | |
| 22: | 25052 | 大学物理实验 C(I)(Experiments in University Physics (1)) | 1.5 | | 36 | | | 1.5 | | | | |
| | 5053 | 大学物理实验 C(II)(Experiments in University Physics (2)) | 1.5 | | 36 | | | | 1.5 | | | |
| | 5036 | 普通化学实验 (General Chemistry Experiment) | 1.5 | | 36 | | 1.5 | | | | | |
| 基 础 082 平 | 2070 | 机械设计基础课程设计(Course design of Mechanical Design Foundation) | 1.5 | | 36 | | | | | 1.5 | | |
| 台 | 2077 | 材料科学与工程基础实验 (Fundamental Experiments for Materials Science and Engineering) | 2 | | 48 | | | | | 2 | | |
| | 5002 | 金工实习(Practice for Metallurgical Technology) | 2 | | 2 周 | | | 2 | | | | |
| 08: | 5069 | 认识实习(Cognitive Practice) | 2 | | 2 周 | | | | | 2 | | |

| | | 085065 | 生产实习(Production Practices) | 3 | | 3周 | | | | | | 3 | | |
|--------|-----|--------|---|----|----|------|--|---|---|---|---|---|----|--|
| | | 085071 | 毕业设计及论文(Graduation Practice Graduation Thesis /Graduation Project) | 24 | | 24 周 | | | | | | 8 | 16 | |
| | (| 005002 | 军训(Army Training) | 0 | | 2周 | | | | | | | | |
| | | 231001 | 有机化学(Organic Chemistry) | 4 | 64 | | | 4 | | | | | | |
| | | 082012 | 高分子化学(Polymer Chemistry) | 4 | 64 | | | | 4 | | | | | |
| | | 082011 | 高分子物理(Polymer Physics) | 4 | 64 | | | | 4 | | | | | |
| | | 083086 | 高分子成型工艺学(Polymer Processing Technology) | 4 | 64 | | | | | 4 | | | | |
| | | 084048 | 高分子材料成型机械(Polymer Processing Machinery) | 3 | 48 | | | | | | 3 | | | |
| | 理论课 | 084045 | 高分子合成工艺学(Polymer Synthesis Technology) | 2 | 32 | | | | | | 2 | | | |
| 高 | | 083212 | 化工基础(Fundamentals of Chemical Engineering) | 3 | 48 | | | | | 3 | | | | |
| 高分子材料 | | 083062 | 聚合物改性(Polymer Modification) | 2 | 32 | | | | | | 2 | | | |
| 料料 | | 083018 | 高分子材料(Polymeric Materials) | 2 | 32 | | | | | | 2 | | | |
| | | 083029 | 功能高分子(Functional Polymers) | 2 | 32 | | | | | | 2 | | | |
| | | 084044 | 高分子材料专业英语(Academic English of Polymer Materials) | 2 | 32 | | | | | | | 2 | | |
| | | 085086 | 高分子化学实验(Experiments of Polymer Chemistry) | 2 | | 48 | | | | 2 | | | | |
| 模块 | 实践 | 085087 | 高分子物理实验 (Experiments of Polymer Physics) | 2 | | 48 | | | | 2 | | | | |
| 课 | 教学 | 085093 | 高分子成型工艺学实验(Experiments of Polymer Processing Technology) | 2 | | 48 | | | | | 2 | | | |
| | | 233016 | 有机化学实验 (Experiments of Organic Chemistry) | 2 | | 48 | | | 2 | | | | | |
| | | 082012 | 高分子化学(Polymer Chemistry) | 4 | 64 | | | | 4 | | | | | |
| | | 082011 | 高分子物理(Polymer Physics) | 4 | 64 | | | | 4 | | | | | |
| | | 083208 | 聚合物成型加工原理(Principles of Polymer Processing) | 4 | 64 | | | | | 4 | | | | |
| 高 | ĵ | 082016 | 数控加工技术 (Numerical Control Technology) | 3 | 48 | | | | | 3 | | | | |
| 分子 | | 083209 | 传热学与流体力学基础(Fundamentals of Heat Transfer and Fluid Mechanics) | 2 | 32 | | | | | 2 | | | | |
| 成 型 | 课 | 082014 | 塑料成型模具(Plastic Processing Mold) | 3 | 48 | | | | | | 3 | | | |
| 与模 | į | 082015 | 塑料成型机械 (Plastic Processing Machinery) | 3 | 48 | | | | | | 3 | | | |
| 月 | | 083207 | 模具制造工艺学(Mold Manufacturing Technology) | 3 | 48 | | | | | | 3 | | | |
| | | 083206 | 塑料模具 CAD/CAE 基础(Fundamentals of Plastic Mold CAD/CAE) | 2 | 32 | | | | | | 2 | | | |
| | | 084049 | 聚合物共混改性原理与应用 (Principles of Polymer Blending and its Application) | 2 | 32 | | | | | | 2 | | | |

| | | 002210 | 塑料加工和模具专业英语(Academic | _ | 22 | | | | | | | |
|---------|-----|--------|---|---|----|----|--|---|---|---|---|--|
| | | 083210 | English of Plastic Processing and Mold) | 2 | 32 | | | | | | 2 | |
| | | 085086 | 高分子化学实验(Experiments of Polymer Chemistry) | 2 | | 48 | | | 2 | | | |
| | 实践 | 085087 | 高分子物理实验(Experiments of Polymer Physics) | 2 | | 48 | | | 2 | | | |
| | 教学 | 083211 | 聚合物成型加工原理实验(Experiments for Principles of Polymer Processing) | 2 | | 48 | | | | 2 | | |
| | | 085015 | 塑料模具设计(Plastic Mold Design) | 2 | | 48 | | | | 2 | | |
| | | 083174 | 金属材料热处理原理(Heat Treatment Principles for Metal Materials) | 4 | 64 | | | | 4 | | | |
| | | 083214 | 金属材料热处理工艺与设备(Heat Treatment Processing and Equipment for Metal Materials) | 3 | 48 | | | | | 3 | | |
| | | 083126 | 材料成型原理(Theory of Material Forming) | 6 | 96 | | | | 6 | | | |
| | 理 | 083153 | 合金及熔炼(Alloy and Smelting) | 3 | 48 | | | | | 3 | | |
| 金属 | 论课 | 082003 | 材料力学性能(Mechanical Properties of Materials) | 2 | 32 | | | | 2 | | | |
| 材料 | | 083161 | 材料成形工艺(Materials Forming Technology) | 6 | 96 | | | | 6 | | | |
| 与成 | | 083021 | 金属焊接性(Metallic Welding) | 2 | 32 | | | | | | 2 | |
| 形加 | | 083213 | 材料成型过程控制(Process Control of Materials Forming) | 2 | 32 | | | | | 2 | | |
| 工 | | 084054 | 金属材料学(Metal Materials) | 5 | 80 | | | | | 5 | | |
| | | 085088 | 工厂工艺设计(Technology Designing) | 1 | | 24 | | | | 1 | | |
| | 实践 | 085089 | AutoCAD 设计(Design of AutoCAD) | 1 | | 24 | | | 1 | | | |
| | 教学 | 085059 | 综合实验(Comprehensive Experiments) | 3 | | 72 | | | | | 3 | |
| | | 085091 | 金属材料制备工艺实验(Experiments of Preparation Process of Metal Materials) | 2 | | 48 | | | | | 2 | |
| | | 082032 | 无机材料热工基础(Fundamentals of Heat Technology of Inorganic Materials) | 4 | 64 | | | 4 | | | | |
| | | 083166 | 无机材料科学(Inorganic Material Science) | 4 | 64 | | | | 4 | | | |
| | | 083149 | 无机材料机械设备(Machine of Inorganic Materials) | 2 | 32 | | | | 2 | | | |
| | | 083079 | 水泥工艺学(Cement Technology) | 3 | 48 | | | | | 2 | | |
| 机非 | 理 | 084014 | 混凝土学(Concrete products and structures) | 2 | 32 | | | | | 3 | | |
| 无机非金属材料 | 理论课 | 083081 | 耐火材料工艺学(Refractory Technology) | 3 | 48 | | | | | 3 | | |
| 料 | | 083154 | 陶瓷工艺原理(Ceramics Technology) | 4 | 64 | | | | | 4 | | |
| | | 083205 | 特种陶瓷(Special Ceramics) | 3 | 48 | | | | | 3 | | |
| | | 084013 | 耐火材料应用(Application of Refractories) | 2 | 32 | | | | | 2 | | |
| | | 084041 | 功能材料设计与制备(Design and Fabrication of Functional Materials) | 2 | 32 | | | | 2 | | | |

| | | | 半导体材料与器件 | | | | | | | | | | |
|----|----------|--------|--|---|----|----|--|---|---|---|---|---|--|
| | | 083202 | Semiconductor Material and Device | 3 | 48 | | | | | | 3 | | |
| | | | AutoCAD 设计(Auto Computer Aided | | | | | | | | | | |
| | | 085089 | Design) | 1 | | 24 | | | 1 | | | | |
| | 乡 | 083204 | 窑炉设计(Kilns Design) | 1 | | 24 | | | | | 1 | | |
| | 跗 | 085088 | 工厂工艺设计(Manufacturing Technology and Factory Layout) | 1 | | 24 | | | | | | 1 | |
| | 教 | 2 | 无机材料科学与性能实验(Experiments | | | | | | | | | | |
| | | 083203 | of Inorganic Material Science) | 2 | | 48 | | | | 2 | | | |
| | | 085090 | 综合实验(Comprehensive | 3 | | 72 | | | | | | 3 | |
| | | | Experiments) | | | | | | | | | | |
| | | 084008 | 工程塑料 | 2 | 32 | | | | | | | 2 | |
| | | | Engineering Plastics | | | | | | | | | | |
| | | 084006 | 涂料与粘合剂 | 2 | 32 | | | | | | | 2 | |
| | | | Coatings & adhesives | | | | | | | | | | |
| | | 084051 | 塑料制品设计 | 2 | 32 | | | | | 2 | | | |
| | | | Design of Plastic Products | | | | | | | | | | |
| | 高 | 001011 | 聚合物结构与性能分析 | | | | | | | | | | |
| | 分 | 084211 | Analysis of Polymers Structures and | 2 | 32 | | | | | | 2 | | |
| | 子 | | Properties | | | | | | | | | | |
| | 材 料 | 083090 | 天然高分子材料 Natural Macromolecules | 2 | 32 | | | | | | 2 | | |
| | | | 智能材料与生物医用材料 | | | | | | | | | | |
| | | 084033 | Smart Biomedical Materials | 2 | 32 | | | | | | | 2 | |
| | | | 胶原基复合材料 Collagen Composite | | | | | | | | | | |
| | | 083127 | Materials | 2 | 32 | | | | | | | 2 | |
| | | 000115 | 绿色化学与化工(Green Chemistry and | | | | | | | | | | |
| | | 083115 | Chemical Engineering) | 2 | 32 | | | | | 2 | | | |
| 课程 | | 231001 | 有机化学(Organic Chemistry) | 4 | 64 | | | 4 | | | | | |
| 群 | | 084051 | 塑料制品设计(Plastic Products Design) | 2 | 32 | | | | | 2 | | | |
| | | 084214 | 聚合物成型加工进展 (Progress in Polymer Processing Technology) | 2 | 32 | | | | | | 2 | | |
| | 高 | | 聚合物结构与性能分析 | | | | | | | | | | |
| | 分 | 084211 | Analysis of Polymers Structures and | 2 | 32 | | | | | | 2 | | |
| | 子 | | Properties | | | | | | | | | | |
| | 成 | | 高分子材料工程师实用技术(英文教材) | | | | | | | | | | |
| | 型 | 084213 | Material Science of Polymer for Engineers | 2 | 32 | | | | | | 2 | | |
| | 与 模 | 083029 | 功能高分子(Functional Polymers) | 2 | 32 | | | | | | 2 | | |
| | 具 | 004212 | 冷冲压模具及工艺 | _ | 22 | | | | | | | 2 | |
| | | 084212 | (Punch Mold and Processing) | 2 | 32 | | | | | | | 2 | |
| | | 083010 | 表面工程(Surface Engineering) | 2 | 32 | | | | | | | 2 | |
| | | 083039 | 挤出模具设计(Extruding Die Design) | 2 | 32 | | | | | | | 2 | |
| | | 084056 | 材料失效诊断、预测与预防(Material failure diagnosis, prediction and prevention of) | 2 | 32 | | | | | | | 2 | |
| | | 083010 | 表面工程(Surface Engineering) | 2 | 32 | | | | | | | 2 | |
| ш | | 1 | ı | 1 | 1 | | | | | | | | |

| 金属 | 083015 | 计算机在材料科学与工程中的应用 (Applications of Computer in Material Engineering) | 2 | 32 | | | | 2 | | | |
|--------|--------|--|---|----|--|---|---|---|---|---|---|
| 材 料 | 084218 | 能源材料(Energy Materials) | 2 | 32 | | | | | 2 | | |
| 与成 | 084031 | 仿生材料(Biomimetic materials) | 2 | 32 | | | | | | 2 | |
| 形加 | 084220 | 非平衡材料(Non-equilibrium Materials) | 2 | 32 | | | | | | 2 | |
| エ | 082005 | 材料工程测试技术(Measuring of Material Engineering) | 2 | 32 | | | | 2 | | | |
| | 083162 | 焊接结构(Welding Structure) | 2 | 32 | | | | | | 2 | |
| | 083125 | 材料成型设备(Materials Processing Equipment) | 3 | 48 | | | | | | 3 | |
| | 083129 | 特种成形技术(Special Forming Technology) | 3 | 48 | | | | | 3 | | |
| | 082009 | 控制工程基础(Foundation of Control Engineering) | 2 | 32 | | | | 2 | | | |
| | 084017 | 生态环境材料 Eco-materials | 2 | 32 | | | | 2 | | | |
| | 083104 | 建筑装饰材料 Architecture Decorating Materials | 2 | 32 | | 2 | | | | | |
| | 084040 | 混凝土制品与构件(Concrete produces and structures) | 2 | 32 | | | | | | 2 | |
| | 084009 | 粉体工程(Powder Engineering) | 2 | 32 | | | 2 | | | | |
| 无 | 083121 | 固体物理(Solid State Physics) | 2 | 32 | | | 2 | | | | |
| 机非金 | 083179 | 无机复合材料学 (Inorganic Composite Science) | 2 | 32 | | | | | 2 | | |
| 属材 | 084217 | 宝玉石概论(Introduction to Gem) | 2 | 32 | | 2 | | | | | ı |
| 料料 | 084080 | 纳米材料及应用(Nanomaterials and Application) | 2 | 32 | | | | | 2 | | |
| | 083165 | 光电子材料(Photoelectron Materials) | 2 | 32 | | | | | | 2 | |
| | 084018 | 中国古陶瓷概论(Appreciation of Chinese Ancient Ceramics) | 2 | 32 | | | 2 | | | | |
| | 083178 | 岩相学(Petrography) | 2 | 32 | | | | | 2 | | |
| | 083170 | 功能复合材料(Fountional Composite Materials) | 2 | 32 | | | | | | 2 | |