

环境科学与工程专业教学进程表

| 课程类型 | 课程代码 | 课程名称 | 学分 | 总学时 | 学时分配 | | | | 考核学期 | | 周学时分配参考 | 备注 |
|---------|------------|---|----|-----|------|----|----|------|------|------|---------|------------|
| | | | | | 理论 | 实践 | | | 考试学期 | 考查学期 | | |
| | | | | | | 实验 | 上机 | 课程实践 | | | | |
| 通识教育必修课 | 1201003110 | 思想道德与法治 Morality and rule by law | 3 | 48 | 40 | | | 8 | 1 | | 3 | |
| | 1203002110 | 中国近现代史纲要 The Sketch of Modern and Contemporary History of China | 2 | 32 | 28 | | | 4 | 2 | | 2 | |
| | 1232002110 | 马克思主义基本原理 Fundamental principles of Marxism | 3 | 48 | 40 | | | 8 | 3 | | 3 | |
| | 1204002180 | 习近平新时代中国特色社会主义思想概论 An overview of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 | 48 | 48 | | | | 3 | | 4 | |
| | 1204002180 | 毛泽东思想和中国特色社会主义理论体系概论 Introduction to Mao Zedong Thought and Theoretical System of Socialism with Chinese Characteristics | 2 | 32 | 28 | | | 4 | 4 | | 4 | |
| | 1205003110 | 形势与政策 Situation and Policy | 2 | 64 | 64 | | | | | 1-8 | 1 | |
| | 0607004140 | 职业技能培训与劳动教育 Professional Skills Training and Labor Education | 1 | 16 | 8 | 8 | | | | 6 | 1 | |
| | 1201001140 | 习近平总书记关于教育的重要论述研究 A Study of General Secretary Xi Jinping's Important View on Education | 1 | 16 | 16 | | | | | 5 | 1 | 网络修读 |
| | 1601001110 | 国家安全教育 National Security Education | 1 | 16 | | | | | | 1 | 1 | 网络修读 |
| | 1701002110 | 大学生心理健康教育 Mental Health of College Students | 2 | 32 | 16 | | | | | 1 | 2 | 网络修读 16 学时 |
| | 1003029111 | 大学英语 1 College English 1 | 2 | 32 | 32 | | | | 1 | | 2 | |
| | 1003029112 | 大学英语 2 College English 2 | 2 | 32 | 32 | | | | 2 | | 2 | |
| | 1003026111 | 大学英语拓展 1 College English Extended Course 1 | 2 | 32 | 32 | | | | 3 | | 2 | |
| | 1003026112 | 大学英语拓展 2 College English Extended Course 2 | 2 | 32 | 32 | | | | 4 | | 2 | 网络修读 |
| | 0901001110 | 大学语文 College Chinese Language and Literature | 2 | 32 | 32 | | | | | 2 | 2 | |
| | 1801002110 | 大学生创业基础 Entrepreneurship Foundation for College Students | 2 | 32 | 32 | | | | | 2 | 2 | 网络修读 |

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| | | | | | | 实验 | 上机 | 课程实践 | | | | |
| | 1801001110 | 大学生职业生涯规划与就业指导 Career Planning and Employment Guidance for College Students | 1.5 | 24 | 24 | | | | | 1,6 | 2 | |
| | 0703018110 | 多媒体技术与应用 Introduction to Python Language | 3 | 48 | 24 | | 24 | | 2 | | 2 | |
| | 1301002111 | 体育 1 Physical Education 1 | 2 | 72 | | | | 72 | 1,2 | | 2 | |
| | 1301002112 | 体育 2 Physical Education 2 | 2 | 72 | | | | 72 | 3,4 | | 2 | |
| | 1302001110 | 军事理论课 Military Theory | 1 | 36 | 10 | | | | | 1 | 2 | 网络修读 26 学时 |
| | 小计 | | 41.5 | 796 | 538 | 8 | 24 | 176 | | | | |
| 通识教育选修课 | <p>学生毕业最低通识教育选修课学分不少于 9 学分，理工农类专业至少选修“人类文明与国际视野”“经典传承与实用人文”“经济发展与社会管理”三类课程群中的 2 个学分，每个学生必须修读“艺术鉴赏与审美体验”类课程的 2 个学分，每个学生必须修读“海洋强国与伟大复兴”类课程的 2 个学分，每个学生必须修读“创新创业与劳动教育”1 个学分，其中每个学生采用网络在线学习的课程学分不能少于 2 学分。</p> | | | | | | | | | | | |
| 学科基础课 | 0103002120 | 环境科学与工程专业导论 Introduction to Environmental Sciences and Engineering | 1 | 16 | 16 | | | | | 1 | 1 | |
| | 0701002121 | 高等数学 B1 Advanced Mathematics B1 | 4 | 64 | 64 | | | | 1 | | 4 | |
| | 0701002123 | 高等数学 B2 Advanced Mathematics B2 | 3.5 | 56 | 56 | | | | 2 | | 4 | |
| | 0701005120 | 线性代数 Linear Algebra | 2 | 32 | 32 | | | | 2 | | 2 | |
| | 0701011120 | 概率统计 B Probability and Statistics B | 3 | 48 | 48 | | | | 3 | | 3 | |
| | 0704002121 | 大学物理 B1 College Physics B1 | 3 | 48 | 48 | | | | 2 | | 3 | |
| | 0704002122 | 大学物理 B2 College Physics B2 | 2 | 32 | 32 | | | | 3 | | 2 | |
| | 1501002120 | 大学物理实验 B College Physics Experiment B | 1 | 32 | | 32 | | | 3 | | 2 | |
| | 0103014121 | 无机及分析化学 B1 Inorganic and Analytical Chemistry B1 | 2 | 32 | 32 | | | | 1 | | 2 | |
| | 0103014122 | 无机及分析化学 B2 Inorganic and Analytical Chemistry B2 | 2.5 | 40 | 40 | | | | 2 | | 3 | |
| | 0305030120 | 无机及分析化学实验 B Inorganic and Analytical Chemistry Experiment B | 1 | 32 | | 32 | | | | 2 | 1 | |
| | 0303302120 | 有机化学 B Organic Chemistry B | 4 | 64 | 64 | | | | 3 | | 4 | |

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| | | | | | | 实验 | 上机 | 课程实践 | | | | | |
| | 0305302120 | 有机化学实验 B Organic Chemistry Experiment B | 1 | 32 | | 32 | | | | 3 | 1 | | |
| | 0602093120 | 物理化学 B Physical Chemistry B | 3 | 48 | 48 | | | | 4 | | | 3 | |
| | 0602095120 | 物理化学实验 B Physical Chemistry Experiment B | 0.5 | 16 | | 16 | | | | 4 | | 1 | |
| | 0103016120 | 环境地学 (双语) Environmental Geosciences (Bilingual) | 2 | 32 | 32 | | | | 2 | | | 4 | |
| | 0103011120 | CAD 基础 Basic CAD | 2 | 64 | | | 64 | | 3 | | | 4 | |
| | 0607005120 | 流体力学 Hydrodynamics | 3 | 40 | 40 | 8 | | | 3 | | | 4 | |
| | 0103008120 | 环境数据处理与分析 Environmental Data Processing and Analysis | 1 | 32 | | | 32 | | 4 | | | 4 | |
| | 小计 | | 41 | 768 | 560 | 112 | 96 | | | | | | |
| 专业核心课 | 0607026130 | 环境生态学 Environmental Ecology | 2.5 | 40 | 32 | 8 | | | 3 | | | 2 | |
| | 0103001130 | 环境微生物学 Environmental Microbiology | 2 | 32 | 32 | | | | 4 | | | 3 | |
| | 0103022130 | 环境监测 Environmental Monitoring | 3 | 48 | 48 | | | | 4 | | | 3 | |
| | 0607006130 | 环境化学 Environmental Chemistry | 2.5 | 40 | 40 | | | | 4 | | | 3 | |
| | 0103024130 | 环境工程原理 Principle of Environmental Engineering | 3 | 48 | 48 | | | | 4 | | | 4 | |
| | 0607025131 | 水质工程学 1 Water Quality Engineering 1 | 2 | 32 | 32 | | | | 4 | | | 3 | |
| | 0607025132 | 水质工程学 2 Water Quality Engineering 2 | 2 | 32 | 32 | | | | 5 | | | 3 | |
| | 0607007130 | 大气污染控制工程 Air Pollution Control Engineering | 2.5 | 40 | 40 | | | | 5 | | | 3 | |
| | 0607008130 | 固体废物处理与处置 Solid Waste Treatment and Disposal | 2.5 | 40 | 40 | | | | 6 | | | 3 | |
| | 0607009130 | 环境规划与管理 Environmental Planning and Management | 2 | 32 | 32 | | | | 6 | | | 2 | |
| | 0607010130 | 海水分析化学 Seawater Analytical Chemistry | 2 | 32 | 32 | | | | 6 | | | 2 | |
| | 小计 | | 26 | 416 | 408 | 8 | | | | | | | |
| 开放拓展课 | 0103006260 | 环境生物学 Environmental Biology | 2 | 32 | 32 | | | | 5 | | | 4 | 专业选修课 |
| | 0103010260 | 土壤污染与防治 Soil Pollution and Prevention | 2 | 32 | 32 | | | | 5 | | | 4 | |

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| | 0103018130 | 环境工程技术经济 Environmental Engineering Technology Economy | 2 | 32 | 32 | | | | 5 | | 4 | |
| | 0103030260 | 科技论文写作 Scientific Paper Writing | 1 | 16 | 16 | | | | | 5 | 2 | |
| | 0103041260 | 环境毒理学 Environmental Toxicology | 2 | 32 | 32 | | | | 5 | | 4 | |
| | 0103104260 | 建筑给水排水 Building Water Supply and Drainage | 2 | 32 | 32 | | | | 5 | | 4 | |
| | 0103134260 | 给排水管网设计 Design of Water and Wastewater System | 2 | 32 | 32 | | | | 5 | | 4 | |
| | 0607011260 | 现代仪器分析 Modern Instrumental Analysis | 2 | 32 | 24 | 8 | | | 5 | | 4 | |
| | 1401001260 | 文献检索 Literature Retrieval | 1 | 16 | 16 | | | | | 5 | 2 | |
| | 0103013260 | 专业外语 Professional English | 2 | 32 | 32 | | | | 6 | | 4 | |
| | 0103021150 | 水处理工程设计 Design of Water Treatment Engineering | 2 | 32 | 32 | | | | 6 | | 4 | |
| | 0103031260 | 环境影响评价 Environmental Impact Assessment | 2 | 32 | 32 | | | | 6 | | 4 | |
| | 0103128260 | 海洋环境污染防治 Prevention and Control of Marine Environmental Pollution | 2 | 32 | 32 | | | | 6 | | 4 | |
| | 0103133260 | 环境工程施工技术 Environmental Engineering Construction Technology | 2 | 32 | 32 | | | | 6 | | 4 | |
| | 0607012260 | 环保设备基础 Foundation of Environmental Protection Equipment | 2 | 32 | 32 | | | | 6 | | 4 | |
| | 0607013260 | 物理性污染控制工程 Physical Pollution Control Engineering | 2 | 32 | 32 | | | | 6 | | 4 | |
| | 0607014260 | 石油环境工程 Petroleum Environmental Engineering | 2 | 32 | 32 | | | | 6 | | 4 | |
| | 0607015260 | 环境催化 Environmental Catalysis | 2 | 32 | 32 | | | | 6 | | 4 | |
| | 0607016260 | 环境生物修复工程 Environmental Bioremediati on Engineering | 2 | 32 | 32 | | | | 6 | | 4 | |
| | 0103042260 | 清洁生产审核 Cleaner Production Assessment | 2 | 32 | 32 | | | | | 7 | 4 | |
| | 0103129260 | 海水淡化与综合利用 Desalination and Comprehensive Utilization of Seawater | 2 | 32 | 32 | | | | 7 | | 4 | |

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| | | | | | | 实验 | 上机 | 课程实践 | | | | | |
| | 0103137260 | 环境海洋学 Environmental Oceanography | 2 | 32 | 32 | | | | 7 | | 4 | | |
| | 0607017260 | 环境法学 Environmental Law | 1 | 16 | 16 | | | | | 7 | | 2 | |
| | 小计 | | 43.5 | 696 | 688 | 8 | | | | | | | |
| | 0601031260 | 石油化工健康、安全与环境 (HSE) Petrochemical HSE Management | 2 | 32 | 32 | | | | 6 | | | 4 | 素质拓展课 |
| | 0601108260 | 工程经济与项目管理 Engineering economy and Project Management | 2 | 32 | 32 | | | | 6 | | | 4 | |
| | 0607018260 | 碳减排与碳中和概论 (双语) Introduction to Carbon Reduction and Carbon Neutrality (Bilingual) | 2 | 32 | 32 | | | | | 6 | | 4 | |
| | 0607019260 | 环境科学与工程专题进展 Progress on Environmental Science and Engineering | 2 | 32 | 32 | | | | | 6 | | 4 | |
| | 0601112260 | 油气储运工程节能与环保 Energy Saving and Environmental Protection in Oil and Gas Storage and Transportation Engineering | 2 | 32 | 32 | | | | 7 | | | 4 | |
| | 0603105250 | 应急管理 Emergency Management | 2 | 32 | 32 | | | | 7 | | | 4 | |
| | 0607020260 | 绿色能源与生物技术 (双语) Green Energy and Biotechnology (Bilingual) | 2 | 32 | 32 | | | | 7 | | | 4 | |
| | 0607021260 | 海洋环境专题进展 Progress on Marine Environmental Science | 2 | 32 | 32 | | | | | 7 | | 4 | |
| | 小计 | | 16 | 256 | 256 | 0 | 0 | 0 | | | | | |
| | 合计 | | 57.5 | 824 | 800 | 24 | 0 | 0 | | | | | |
| | 小计 | | 16 | 拓展课各课程模块中，专业选修课修读至少 12 个学分、素质拓展模块修读至少 4 学分，选修课合计学分需修满 16 学分 | | | | | | | | | |
| 第二课堂 | 德育学分 | | 主要包括社团活动、志愿服务、校园文化、蓝色大讲堂、“双百双进”、暑期社会实践等。 | | | | | | | | △4 | | |
| | 创新创业实践学分 | | 主要包括学科竞赛、创新创业训练项目、创业孵化等。 | | | | | | | | △4 | | |
| 备注：德育学分、创新创业实践学分不计入毕业最低要求学分，但作为学生毕业的必要条件，不计学分学费。 | | | | | | | | | | | | | |