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土木工程专业课程归属

**表1：土木工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 1 | 0000088 | 思想道德与法治  Ideological Morality and Rule of Law | 2 |  | 马院 |
| 2 | 0000089 | 马克思主义基本原理  Basic Principles of Marxism | 3 |  |
| 3 | 0000090 | 中国近现代史纲要  Outline of Chinese Modern History | 3 |  |
| 4 | 2118002 | 毛泽东思想和中国特色社会主义理论体系概论  An Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 2 |  |
| 5 | 2118001 | 习近平新时代中国特色社会主义思想概论  An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 |  |
| 6 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 7 | 0000005A | 大学英语I  College English I | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  College English II | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  College English III | 4 |  |
| 10 | 00000A3 | 信息技术应用基础    Application and Practice of Information Technology | 1 |  | 电信院 |
| 11 | 0000001 | VB程序设计  VB Programming | 3 |  |
| 12 | 0000041 | 体育I  Physical Education I | 1 |  | 基础部 |
| 13 | 0000042 | 体育II  Physical Education II | 1 |  |
| 14 | 0000043 | 体育III  Physical Education III | 1 |  |
| 15 | 0000044 | 体育IV  Physical Education IV | 1 |  |

**续表1-1：土木工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 16 | 0000018 | 高等数学I  Advanced Mathematics I | 5 |  | 基础部 |
| 17 | 0000019 | 高等数学 II  Advanced Mathematics II | 6 |  |
| 18 | 0000048 | 线性代数  Linear Algebra | 2 |  |
| 19 | 0000017 | 概率论与数理统计  Probability & Mathematical Statistics | 3 |  |
| 20 | 0000010D | 大学物理I（水利土木类）  Physics I | 2 |  |
| 21 | 0000011D | 大学物理II  （水利土木类）  Physics II | 2 |  |
| 22 | 00000A2 | 大学化学（2学分）  College Chemistry | 2 |  |
| 限 选 | 23 | 0000101 | 大学生心理健康教育  College Students'Mental Health Education | 1 |  |
| 24 | 0000102 | 大学生职业生涯规划  Occupational Career Planning of College Students | 1 |  |
| 25 | 0000A85 | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | 1 |  | 双创院 |
| 26 | 0000084 | 大学生就业指导实务  College Student Vocational Counsel | 1 |  | 基础部 |
| 27 | GXK0119 | 军事理论  Military Theory | 2 |  |
| 28 | GXK0159 | 劳动通论  General Theory of Labor | 2 |  |
| 任 选 | 29 |  | 科学技术类 | 1 |  |  |
| 30 |  | 人文社会类 | 1 |  |  |
| 31 |  | 艺术教育类 | 1 |  |  |
| 32 |  | 特色通识类 | 1 |  |  |
| 33 |  | 跨文化交流类 | 1 |  |  |

**表2：土木工程专业课程归属（专业基础）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专 业 基 础 | 必 修 | 34 | 0700157 | 土木工程概论  Introduction to  Civil Engineering | 1 | **√** |  |
| 35 | 0301001 | 工程制图I  Engineering Drawing I | 3 | **√** |  |
| 36 | 0301003 | 工程制图Ⅱ  Engineering DrawingⅡ | 2 | **√** |  |
| 37 | 0402001 | 理论力学  Theoretical Mechanics | 4 | **√** |  |
| 38 | 0700007 | 材料力学\*  Material Mechanics | 4 | **√** |  |
| 39 | 0700120 | 结构力学\*  Structural Mechanics | 4 | **√** |  |
| 40 | 0700057 | 工程材料  Engineering Materials | 1.5 | **√** |  |
| 41 | 0700062B | 工程地质  Engineering Geology | 1.5 | **√** |  |
| 42 | 0404052 | 测量学  Survey | 2 | **√** |  |
| 43 | 0700130 | 流体力学  Fluid Mechanics | 1.5 | **√** |  |
| 44 | 0700154 | 土力学  Soil Mechanics | 3 | **√** |  |
| 45 | 0804013 | 工程项目估价  Estimation and  Bidding  of Engineering Project | 1.5 | **√** |  |
| 46 | 0700045 | 钢结构原理\*  Steel Structures | 2 | **√** |  |
| 47 | 0401063A | 混凝土结构设计原理\*  Design Principle of  Concrete  Structures | 4 | **√** |  |

**表3：土木工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专 业 教 育 | 必 修 | 48 | 0700040 | 房屋建筑学  Building Architecture and Structural  Detailing | 3 | **√** |  |
| 49 | 0700086 | 混凝土与砌体结构  Concrete and  Masonry Structures | 2.5 | **√** |  |
| 50 | 0700044 | 钢结构设计  Design of  Steel Structures | 1.5 | **√** |  |
| 51 | 0700A66 | 工程结构抗震设计  Earthquake-Resistant  Design of Engineering Structures | 1.5 | **√** |  |
| 52 | 0700072 | 工程施工\*  Engineering  Construction | 3.5 | **√** |  |
| 53 | 0700272 | 结构检验  Inspection of Building Structures | 1 | **√** |  |
| 54 | 0700088 | 基础工程  Foundation  Engineering | 1.5 | **√** |  |
| 选 修 | 55 | 0300021 | 电工学  Electrical Techniques | 2 |  | 电信院 |
| 56 | 0700030 | 地基处理技术  Ground Handle  Techniques | 1.5 | **√** |  |
| 57 | 0804001 | 工程项目管理  Construction Project  Management | 1.5 | **√** |  |
| 58 | 0700165 | 组合结构  Composite Structures | 1.5 | **√** |  |
| 59 | 0300087B | 数字资源检索与利用  Digital Information  Resources Retrieval & Utilization | 1 | **√** |  |
| 60 | 0700080 | 公共建筑设计原理  Principles of Public  Architectural Design | 1.5 | **√** |  |

**续表3-1：土木工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专 业 教 育 | 选 修 | 61 | 0700022 | 城镇建设规划原理  Principles of City and  Town Planning | 2 | **√** |  |
| 62 | 0201042 | 水利工程概论  Introduction to  Hydraulic Engineering | 2 | **√** |  |
| 63 | 0201029 | 桥梁工程概论  Bridge Engineering | 2 | **√** |  |
| 64 | 0302020 | 道路工程概论  Road Engineering | 2 | **√** |  |
| 65 | 0700049 | 高层建筑结构设计  Structural Design for  High-rise Buildings | 1.5 | **√** |  |
| 66 | 0401004 | 工程建设法规  Laws and Codes of  Engineering Construction | 1 | **√** |  |
| 67 | 0700166A | 建筑安全技术及管理  TechnologyandManagementof Construction Safety | 1.5 | **√** |  |
| 68 | 0700101 | 建筑结构计算软件应用  Building Structural  Software Application | 1.5 | **√** |  |
| 69 | 0700146 | 室内设计  Interior Design | 1 | **√** |  |
| 70 | 0700102 | 建筑装饰材料  Architectural Decorative Materials | 1 | **√** |  |
| 71 | 0700158 | 土木工程专业英语  Professional English | 1 | **√** |  |
| 72 | 0700514 | 结构动力学  Structural Dynamics | 1.5 | **√** |  |
| 73 | 0700515 | BIM技术  BIM technique and its application | 1.5 | **√** |  |

**表4：土木工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集 中 实 践 | 必 修 | 74 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 75 | 0000096 | 毛泽东思想和中国特色社会主义理论体系概论实践  Practice for Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 1 |  |
| 76 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 77 | 00000D3 | 信息技术应用基础实践  Application and Practice of Information Technology | 1 |  | 电信院 |
| 78 | 00000B1 | VB程序设计实践  VB Programming Practice | 1 |  |
| 79 | 0000012D | 物理实验（水利土木类）  Physics Experiments | 1.5 |  | 基础部 |
| 80 | 14030021 | 化学实验（0.5学分）  Chemistry Experiment | 0.5 |  |
| 81 | 1300007 | 力学实验  Mechanics Experiment | 1 | **√** |  |
| 82 | 0700012 | 测量实习  Practice of Surveying | 1.5 | **√** |  |
| 83 | 0700058 | 工程材料实验※  Engineering Material Experiment | 1 | **√** |  |
| 84 | 04060131A | 土力学实验  Soil Mechanics Experiment | 1 | **√** |  |
| 85 | 0700048A | 钢筋混凝土实验※  Reinforced Concrete Experiment | 1 | **√** |  |
| 86 | 0700271 | 结构检验实验  Building Structures  Inspection Test | 0.5 | **√** |  |
| 87 | 0700063 | 工程地质实习  Engineering Geology Experiment & Practice | 0.5 | **√** |  |
| 88 | 0401101 | 认识实习I  Practice for Broadening Engineering Knowledge I | 0.5 | **√** |  |

**续表4-1：土木工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集 中 实 践 | 必 修 | 89 | 0401103 | 认识实习II  Practice for Broadening Engineering Knowledge II | 0.5 | **√** |  |
| 90 | 0700041 | 房屋建筑学课程设计  Course Design Work for  Building  Architectures | 1.5 | **√** |  |
| 91 | 0700A47 | 钢筋混凝土课程设计  Course Design of R.C  Structures | 2 | **√** |  |
| 92 | 0700043 | 钢结构课程设计  Course Design Work for Steel Structures | 1 | **√** |  |
| 93 | 0700A87 | 混凝土与砌体结构课程设计  Course Design Work for Building Architectures | 2 | **√** |  |
| 94 | 0700074 | 工程施工课程设计  Course Design of Building Construction | 1.5 | **√** |  |
| 95 | 08040131 | 工程项目估价课程设计  Course Design of Project Budget | 1 | **√** |  |
| 96 | 0700088A | 基础工程课程设计  Course Design Work for  Foundation Engineering | 1 | **√** |  |
| 97 | 0700501B | 生产实习  Construction Practice | 3 | **√** |  |
| 98 | 0700501A | 毕业实习  Graduation Field Work | 2 | **√** |  |
| 99 | 0700502 | 毕业设计（论文）  Undergraduate Paper | 14 | **√** |  |

给排水科学与工程专业课程归属

**表1：给排水科学与工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 1 | 0000088 | 思想道德与法治  Ideological Morality and Rule of Law | 2 |  | 马院 |
| 2 | 0000089 | 马克思主义基本原理  Basic Principles of Marxism | 3 |  |
| 3 | 0000090 | 中国近现代史纲要  Outline of Chinese Modern History | 3 |  |
| 4 | 2118002 | 毛泽东思想和中国特色社会主义理论体系概论  An Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 2 |  |
| 5 | 2118001 | 习近平新时代中国特色社会主义思想概论  An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 |  |
| 6 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 7 | 0000005A | 大学英语I  College English I | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  College English II | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  College English III | 4 |  |
| 10 | 00000A3 | 信息技术应用基础    Application and Practice of Information Technology | 1 |  | 电信院 |
| 11 | 0000001 | VB程序设计  VB Programming | 3 |  |
| 12 | 0000041 | 体育I  Physical Education I | 1 |  | 基础部 |
| 13 | 0000042 | 体育II  Physical Education II | 1 |  |
| 14 | 0000043 | 体育III  Physical Education III | 1 |  |
| 15 | 0000044 | 体育IV  Physical Education IV | 1 |  |

**续表1-1：给排水科学与工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 16 | 0000018 | 高等数学I  Advanced Mathematics I | 5 |  | 基础部 |
| 17 | 0000019 | 高等数学 II  Advanced Mathematics II | 6 |  |
| 18 | 0000048 | 线性代数  Linear Algebra | 2 |  |
| 19 | 0000017 | 概率论与数理统计  Probability & Mathematical Statistics | 3 |  |
| 20 | 0000010D | 大学物理I  （水利土木类）  Physics I | 2 |  |
| 21 | 0000011D | 大学物理II  （水利土木类）  Physics II | 2 |  |
| 限 选 | 23 | 0000101 | 大学生心理健康教育  College Students'Mental Health Education | 1 |  |
| 24 | 0000102 | 大学生职业生涯规划  Occupational Career Planning of College Students | 1 |  |
| 25 | 0000A85 | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | 1 |  | 双创院 |
| 26 | 0000084 | 大学生就业指导实务  College Student Vocational Counsel | 1 |  | 基础部 |
| 27 | GXK0119 | 军事理论  Military Theory | 2 |  |
| 28 | GXK0159 | 劳动通论  General Theory of Labor | 2 |  |
| 任 选 | 29 |  | 科学技术类 | 1 |  |  |
| 30 |  | 人文社会类 | 1 |  |  |
| 31 |  | 艺术教育类 | 1 |  |  |
| 32 |  | 特色通识类 | 1 |  |  |
| 33 |  | 跨文化交流类 | 1 |  |  |

**表2：给排水科学与工程专业课程归属（专业基础）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专 业 基 础 | 必 修 | 34 | 0301001 | 工程制图 I  Engineering Drawing | 3 | **√** |  |
| 35 | 0301003 | 工程制图 II  Engineering Drawing | 2 | **√** |  |
| 36 | 0000002 | 大学化学（3学分）  College Chemistry | 3 |  | 基础部 |
| 37 | 0300040 | 电子电工学基础  Basis of Electronic Engineering | 2 |  | 电信院 |
| 38 | 0700150 | 水分析化学  Water Analysis Chemistry | 2 | **√** |  |
| 39 | 06000312 | 水力学  Hydraulics | 4 |  | 水利院 |
| 40 | 0700070 | 工程力学  Engineering Physics I | 4 | **√** |  |
| 41 | 0700119 | 结构力学  Structuring Physics | 3 | **√** |  |
| 42 | 0700153 | 土建工程基础  Civil and Groundwork Engineering | 2 | **√** |  |
| 43 | 0700053 | 给水排水工程结构  Structure of Water Supply and Drainage Engineering | 2.5 | **√** |  |
| 44 | 0700019 | 城市水工程概论  Introduction of City Water | 1 | **√** |  |
| 45 | 0700015 | 测量学  Surveying | 2 | **√** |  |
| 46 | 1401043 | 水处理微生物学基础  Basis of Microbiology for Water Treatment | 2.5 | **√** |  |
| 47 | 1402023A | 水泵与泵站  Water Pumps & Pump Stations | 1.5 | **√** |  |
| 48 | 0600042A | 水资源利用与保护  Utilization & Conservation of Water Resource | 1.5 | **√** |  |

**表3：给排水科学与工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 必修 | 49 | 0700054 | 给水排水管网系统 Ⅰ\*  Water Supply & Drainage DuctworkⅠ | 2 | **√** |  |
| 50 | 0700055 | 给水排水管网系统 Ⅱ\*  Water Supply & Drainage Ductwork Ⅱ | 1.5 | **√** |  |
| 51 | 1402026A | 水质工程学 Ⅰ\*  Water Quality Engineering Ⅰ | 3 | **√** |  |
| 52 | 1402055A | 水质工程学 Ⅱ\*  Water Quality Engineering Ⅱ | 2.5 | **√** |  |
| 53 | 0700099 | 建筑给水排水工程\*  Building Water Supply & Drainage | 2.5 | **√** |  |
| 54 | 1402045 | 水工艺仪表与控制  Controlling of wastewater treatment Instrument | 1 | **√** |  |
| 55 | 0600029A | 水工艺设备基础  Basis of Water Treatment Equipment | 1.5 | **√** |  |
| 56 | 1402012 | 水工程经济  Water engineering economy | 1.5 | **√** |  |
| 选修 | 57 | 0700097 | 建筑材料  Architecture Material | 2 | **√** |  |
| 58 | 0600038 | 水文地质  Hydrogeology | 2 | **√** |  |
| 59 | 0700100 | 建筑工程概论  Introduction to  Architecture | 2 | **√** |  |
| 60 | 0201049 | 水工程施工  Management of Engineering | 2 | **√** |  |
| 61 | 0700085 | 环境监测  Environment Monitoring | 2.5 | **√** |  |
| 62 | 0700018 | 城市规划  City Planning | 2 | **√** |  |
| 63 | 0700079 | 工业废水处理  Industrial Wastewater Treatment | 2 | **√** |  |
| 64 | 0700021 | 城市水系统运营与管理  Operation and Management of Urban Water System | 1.5 | **√** |  |
| 65 | 0700081 | 供暖与通风  Heating and aeration Engineering | 2 | **√** |  |
| 66 | 0700082 | 固体废弃物处理  Solid Waste Treatment & Disposal | 2 | **√** |  |
| 67 | 0700110 | 专业英语  Specialized English | 1 | **√** |  |

**表4：给排水科学与工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程（组）编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集中实践 | 必修 | 68 | 0000095 | 思想道德与法治实践  Ideological Morality and  Legal Practice | 1 |  | 马院 |
| 69 | 0000096 | 毛泽东思想和中国特色社会主义理论体系概论实践  Practice for Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 1 |  |
| 70 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 71 | 0000012D | 物理实验（水利土木类）  Physics Experiments II | 1.5 |  | 基础部 |
| 72 | 1403010 | 化学实验（1学分）  Experiment of Chemistry | 1 |  | 基础部 |
| 73 | 0700151 | 水分析化学实验  Experiment of Water Analysis Chemistry | 1 | **√** |  |
| 74 | 1404055 | 水力学实验※  Experiment of Hydraulics | 1 |  | 水利院 |
| 75 | 0700012 | 测量实习※  Surveying Practice | 1.5 | **√** |  |
| 76 | 1402036A | 水泵与泵站课设  Course Design of Water Pumps & Pump Stations | 1.5 | **√** |  |
| 77 | 0700051 | 给水排水管网系统Ⅰ课设  Course Design of Water Supply and Drainage System Ⅰ | 1.5 | **√** |  |
| 78 | 0700052D | 给水排水管网系统Ⅱ课设  Course Design of Water Supply and Drainage System Ⅱ | 1.5 | **√** |  |
| 79 | 0700098 | 建筑给水排水工程课设  Course Design of Building Water Supply & Drainage | 1.5 | **√** |  |
| 80 | 0600018A | 水质工程学Ⅰ课设  Course Design of Water Quality Engineering Ⅰ | 1.5 | **√** |  |
| 81 | 0600017A | 水质工程学Ⅱ课设  Course Design of Water Quality Engineering Ⅱ | 1.5 | **√** |  |
| 82 | 0600019 | 水处理实验技术  Experimental Techniques of Water Treatment | 1 | **√** |  |
| 83 | 0600025 | 水工程经济课设  Course Design of Water Engineering Economy | 1 | **√** |  |

**续表4-1：给排水科学与工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集中实践 | 必修 | 84 | 0700500 | 认识实习  Realizing Practice | 1 | **√** |  |
| 85 | 0700501B | 生产实习  Graduation Practice | 2 | **√** |  |
| 86 | 0700502 | 毕业设计  Graduation Design | 14 | **√** |  |
| 87 | 0700501A | 毕业实习  Graduation Field Work | 2 | **√** |  |
| 88 | 00000D3 | 信息技术应用基础实践  Application and Practice of Information Technology | 1 |  | 电信院 |
| 89 | 00000B1 | VB程序设计实践  VB Programming Practice | 1 |  |

测绘工程专业课程归属

**表1：测绘工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 1 | 0000088 | 思想道德与法治  Ideological Morality and Rule of Law | 2 |  | 马院 |
| 2 | 0000089 | 马克思主义基本原理  Basic Principles of Marxism | 3 |  |
| 3 | 0000090 | 中国近现代史纲要  Outline of Chinese Modern History | 3 |  |
| 4 | 2118002 | 毛泽东思想和中国特色社会主义理论体系概论  An Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 2 |  |
| 5 | 2118001 | 习近平新时代中国特色社会主义思想概论  An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 |  |
| 6 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 7 | 0000005A | 大学英语I  College English I | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  College English II | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  College English III | 4 |  |
| 10 | 00000A3 | 信息技术应用基础  Application and Practice of Information Technology | 1 |  | 电信院 |
| 11 | 0300002 | C语言程序设计  Practice of C Programming | 3 |  |
| 12 | 0000041 | 体育I  Physical Education I | 1 |  | 基础部 |
| 13 | 0000042 | 体育II  Physical Education II | 1 |  |
| 14 | 0000043 | 体育III  Physical Education III | 1 |  |
| 15 | 0000044 | 体育IV  Physical Education IV | 1 |  |

**续表1-1：测绘工程专业课程归属（公共基础）**

| **课程**  **类别** | | **课程**  **性质** | **序号** | **课程编号** | | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | | 必 修 | 16 | 0000018 | | 高等数学I  Advanced Mathematics I | 5 |  | 基础部 |
| 17 | 0000019 | | 高等数学 II  Advanced Mathematics II | 6 |  |
| 18 | 0000048 | | 线性代数  Linear Algebra | 2 |  |
| 19 | 0000017 | | 概率论与数理统计  Probability & Mathematical Statistics | 3 |  |
| 20 | 0000010D | | 大学物理I（水利土木类）  Physics I | 2 |  |
| 21 | 0000011D | | 大学物理II（水利土木类）  PhysicsII | 2 |  |
| 限 选 | 22 | 0000101 | | 大学生心理健康教育  College Students'Mental Health Education | 1 |  |
| 23 | 0000102 | | 大学生职业生涯规划  Occupational Career Planning of College Students | 1 |  |
| 24 | 0000A85 | | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | 1 |  | 双创院 |
| 25 | 0000084 | | 大学生就业指导实务  College Student Vocational Counsel | 1 |  | 基础部 |
| 26 | GXK0119 | | 军事理论  Military Theory | 2 |  |
| 27 | GXK0159 | | 劳动通论  General Theory of Labor | 2 |  |
|  | 任 选 | | 28 | |  | 科学技术类 | 1 |  |  |
| 29 | |  | 人文社会类 | 1 |  |  |
| 30 | |  | 艺术教育类 | 1 |  |  |
| 31 | |  | 特色通识类 | 1 |  |  |
| 32 | |  | 跨文化交流类 | 1 |  |  |

**表2：测绘工程专业课程归属（专业基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 专 业 基 础 | 必 修 | 33 | 0700011 | 测绘学概论\*  Introduction to Surveying  and Mapping | 2 | **√** |  |
| 34 | 0700016 | 测量学基础  Basis of Survey | 3 | **√** |  |
| 35 | 0700148 | 数字测图原理与方法\*  Principle and Method  of Digital Mapping | 2 | **√** |  |
| 36 | 0700162 | 误差理论与测量平差基础\*  Theory of Errors and  Basis of Surveying  Adjustment | 4 | **√** |  |
| 37 | 0700023 | 大地测量学基础\*  Basis of Geodesy | 3 | **√** |  |
| 38 | 0700161 | 卫星定位技术与应用\*  Satellite Positioning  Technique and Application | 3 | **√** |  |
| 39 | 0700140 | 摄影测量学\*  Photogrammetry | 3 | **√** |  |
| 40 | 0700163B | 遥感原理与应用\*  Principles and Applicationof Remote Sensing | 2.5 | **√** |  |
| 41 | 0700004 | GIS原理与应用\*  Principle and  Application of GIS | 3 | **√** |  |
| 42 | 0700035 | 地图制图学\*  Cartography | 3 | **√** |  |
| 43 | 0700128 | 控制测量学  Control Surveying | 3 | **√** |  |
| 44 | 0300186A | 数据库原理与方法  Principle and method of Data Base | 2 | **√** |  |

**表3：测绘工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专 业 教 育 | 必 修 | 45 | 0700061 | 工程测量学\*  Engineering surveying | 4 | **√** |  |
| 46 | 0700006 | 变形监测技术与应用  Deformation monitoring  technique and  application | 2 | **√** |  |
| 47 | 2107001 | GIS设计与工程  GIS design and  Engineering | 3 | **√** |  |
| 48 | 0700010 | 测绘数据计算方法及程序设计  Surveying Data Processing Theory and Program Design | 2 | **√** |  |
| 49 | 0700031 | 地籍测量与土地管理  Cadastral Surveying and Land Management | 3 | **√** |  |
| 选 修 | 50 | 0700009 | 测绘法规  Criterion of Surveying  and Mapping | 2 | **√** |  |
| 51 | 0300087B | 数字资源检索与利用  Digital Information Resources Retrieval and Utilization | 1 | **√** |  |
| 52 | 080400A | 工程项目管理  Engineering Project  Management | 2 | **√** |  |
| 53 | 0700033 | 地理学概论  Introduction to Geography | 2 | **√** |  |
| 54 | 0700149 | 数字地面模型与应用  Digital terrain model  and application | 2 | **√** |  |
| 55 | 0700001 | Auto CAD及应用  Auto CAD and  Application | 2 | **√** |  |
| 56 | 0700267 | 数据结构  Data Structure | 2 | **√** |  |
| 57 | 0700214 | 轨道与地下工程测量  Rail and Underground Engineering Surveying | 2 | **√** |  |
| 58 | 0700215 | 测绘软件应用  Surveying and Mapping Software Application | 2 | **√** |  |

**续表3-1：测绘工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
|  | 选 修 | 59 | 0700124 | 精密工程测量  Precise Engineering Surveying | 2 | **√** |  |
| 60 | 03000A1 | C#程序设计  C# Program Design | 2 | **√** |  |
| 61 | 0700216 | 遥感数字图像处理  Remote Sensing Digital Image  Processing | 2 | **√** |  |
| 62 | 0700217 | 3S技术集成与应用  Integration and Application of  GIS/RS/GPS | 2 | **√** |  |
| 63 | 0700037 | 电子地图与应用  Electronic Map and  Application | 2 | **√** |  |
| 64 | 0700157 | 土木工程概论  Introduction to Architecture | 2 | **√** |  |
| 65 | 0700266 | 测绘专业英语  English for Geomatics Engineering | 2 | **√** |  |
| 66 | 0000077 | 计算方法  Computational Method | 2 |  | 基础部 |
| 67 | 0000060 | 数学建模  Mathematical Modeling | 2 |  |

**表4：测绘工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集 中 实 践 | 必 修 | 68 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 69 | 0000096 | 毛泽东思想和中国特色社会主义理论体系概论实践  Practice for Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 1 |  |
| 70 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 71 | 0000012D | 物理实验（水利土木类）  Physics Experiments II | 1.5 |  | 基础部 |
| 72 | 0700159 | 数字测图原理与方法实习  Digital Mapping Practice | 4 | **√** |  |
| 73 | 0700127 | 控制测量实习※  Control surveying Practice | 4 | **√** |  |
| 74 | 0700160A | 卫星定位技术应用实习  Application of Satellite Positioning Technique | 1.5 | **√** |  |
| 75 | 070B140 | 摄影测量实习※  Photogrammetry Practice | 2.5 | **√** |  |
| 76 | 0700014 | 测量数据处理课程设计  Course design for Surveying Data Processing | 1 | **√** |  |
| 77 | 0700060A | 工程测量实习  Engineering Surveying Practice | 2 | **√** |  |
| 78 | 0700501A | 毕业实习  Undergraduate Field Work | 2 | **√** |  |
| 79 | 0700502 | 毕业论文  Undergraduate Paper | 14 | **√** |  |
| 80 | 00000D3 | 信息技术应用基础实践  Application and practice of information technology | 1 |  | 电信院 |
| 81 | 030A203 | C语言课程设计  Course Design of C Language | 1 |  |
| 82 | 0700218 | 遥感原理与应用课程设计  Remote sensing and  application of  curriculum design principles | 1 | **√** |  |
| 83 | 0700A35 | 地图制图课程设计  Map drawing course design | 1 | **√** |  |
| 84 | 0700219 | GIS课程设计  GIS curriculum design | 1 | **√** |  |

交通工程专业课程归属

**表1：交通工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 1 | 0000088 | 思想道德与法治  Ideological Morality and Rule of Law | 2 |  | 马院 |
| 2 | 0000089 | 马克思主义基本原理  Basic Principles of Marxism | 3 |  |
| 3 | 0000090 | 中国近现代史纲要  Outline of Chinese Modern History | 3 |  |
| 4 | 2118002 | 毛泽东思想和中国特色社会主义理论体系概论  An Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 2 |  |
| 5 | 2118001 | 习近平新时代中国特色社会主义思想概论  An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 |  |
| 6 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 7 | 0000005A | 大学英语I  College English I | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  College English II | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  College English III | 4 |  |
| 10 | 00000A3 | 信息技术应用基础    Application and Practice of Information Technology | 1 |  | 电信院 |
| 11 | 0300002 | C语言程序设计  Practice of C Programming | 3 |  |
| 12 | 0000041 | 体育I  Physical Education I | 1 |  | 基础部 |
| 13 | 0000042 | 体育II  Physical Education II | 1 |  |
| 14 | 0000043 | 体育III  Physical Education III | 1 |  | 基础部 |
| 15 | 0000044 | 体育IV  Physical Education IV | 1 |  |

**续表1：交通工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 16 | 0000018 | 高等数学I  Advanced Mathematics I | 5 | |  | 基础部 |
| 17 | 0000019 | 高等数学 II  Advanced Mathematics II | 6 | |  |
| 18 | 0000048 | 线性代数  Linear Algebra | 2 | |  |
| 19 | 0000017 | 概率论与数理统计  Probability & Mathematical Statistics | 3 | |  |
| 20 | 0000010D | 大学物理I（水利土木类）  Physics I | 2 | |  |
| 21 | 0000011D | 大学物理II  （水利土木类）  PhysicsII | 2 | |  |
| 限 选 | 22 | 0000101 | 大学生心理健康教育  College Students'Mental Health Education | 1 | |  |
| 23 | 0000102 | 大学生职业生涯规划  Occupational Career Planning of College Students | 1 | |  |
| 24 | 0000A85 | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | 1 | |  |
| 25 | 0000084 | 大学生就业指导实务  College Student Vocational Counsel | 1 | |  | 双创院 |
| 26 | GXK0119 | 军事理论  Military Theory | 2 | |  | 基础部 |
| 27 | GXK0159 | 劳动通论  General Theory of Labor | 2 | |  |
| 任 选 | 28 |  | 科学技术类 | | 1 |  |  |
| 29 |  | 人文社会类 | | 1 |  |  |
| 30 |  | 艺术教育类 | | 1 |  |  |
| 31 |  | 特色通识类 | | 1 |  |  |
| 32 |  | 跨文化交流类 | | 1 |  |  |

**表2：交通工程专业教学课程归属（专业基础）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业基础 | 必修 | 33 | 20090709A2 | 交通工程导论\*  Introduction to Transportation Engineering | 1 | **√** |  |
| 34 | 2107005 | 电工与电子技术  Electrical Engineering & Electronics Technology | 3 |  | 电信院 |
| 35 | 0301001 | 工程制图Ⅰ  Engineering Drawing I | 3 | **√** |  |
| 36 | 0301003 | 工程制图Ⅱ  Engineering Drawing II | 2 | **√** |  |
| 37 | 0406A01 | 交通分析理论\*  Traffic Analysis Theory | 4 | **√** |  |
| 38 | 0700106 | 交通工程学（双语）  Transportation Engineering | 3 | **√** |  |
| 39 | 0402001 | 理论力学  Engineering Mechanics I | 4 | **√** |  |
| 40 | 0700007 | 材料力学  Material Mechanics | 4 | **√** |  |
| 41 | 0700154 | 土力学  Soil Mechanics | 3 | **√** |  |
| 42 | 0700A88 | 基础工程  Infrastructure Engineering | 2 | **√** |  |
| 43 | 0700015 | 测量学  Surveying | 2 | **√** |  |
| 44 | 0302207 | 交通仿真软件应用  Application of  Traffic Software | 2 | **√** |  |
| 45 | 0302323 | 交通通信技术基础  Base Technology of Trans-  portation and Communication | 2 | **√** |  |
| 46 | 0700057 | 工程材料  Engineering Materials | 1.5 | **√** |  |
| 47 | 0700117 | 交通运输学  Traffic Transportation | 1.5 | **√** |  |

**表3：交通工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 必修 | 48 | 020100411 | 交通规划\*  Traffic Planning | 2 | **√** |  |
| 49 | 0302106 | 道路工程经济  The Economy of  Road Engineering | 2 | **√** |  |
| 50 | 0302208 | 道路工程  Road Engineering | 2 | **√** |  |
| 51 | 070A182 | 交通设计\*  Traffic Design | 2 | **√** |  |
| 52 | 03A2209 | 交通安全\*  Traffic Safety | 2 | **√** |  |
| 53 | 0302102 | 道路交通管理与控制\*  Road Traffic Management  And Control | 2 | **√** |  |
| 54 | 0201009 | 道路勘测设计  Road Exploration Design | 2 | **√** |  |
| 选修 | 55 | 0302107 | 高速公路机电工程  Highway Electrical  Engineering | 2 | **√** |  |
| 56 | 0201016 | 城市公共交通  Urban Public Traffic | 2 | **√** |  |
| 57 | 0700220 | 城市规划原理  Principles of City and Town  Planning | 2 | **√** |  |
| 58 | 0300A97 | 微机原理与接口技术  Principle & Interface  Technique of  Micro-compute | 2 | **√** |  |
| 59 | 0300018 | 单片机原理与应用  Single Chip Processor Principle and Application | 2 | **√** |  |
| 60 | 0700221 | 道路养护管理  Maintenance Management of Road | 1.5 | **√** |  |
| 61 | 0600008 | 计算机网络导论  Introduction to Computer Network Technology | 1.5 | **√** |  |
| 62 | 040100211 | 物流工程  Logistics Engineering | 2 | **√** |  |
| 63 | 0302214 | 停车场规划与设计  Planning and Design of  Parking Area | 2 | **√** |  |

**续表3-1：交通工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 选 修 | 64 | 0700222 | 城市轨道交通  City Railway Traffic | 1.5 | **√** |  |
| 65 | 2107006 | 桥梁工程  Bridge Engineering | 2 | **√** |  |
| 66 | 020101211 | 工程建设监理  Engineering Project  Management | 2 | **√** |  |
| 67 | 0201017 | 工程概预算  Cost Estimation and  Budget of Project | 1 | **√** |  |
| 68 | 0302103 | 交通港站设计  Traffic Port Station  Design | 2 | **√** |  |
| 69 | 0700223 | 港口工程  Port Engineering | 1.5 | **√** |  |
| 70 | 070A120 | 结构力学  Structural chanics | 3 | **√** |  |
| 71 | 080400 | 工程项目管理  Construction Project  Management | 1.5 | **√** |  |
| 72 | 0700046 | 钢筋混凝土结构  Reinforced Concrete  Structures | 4 | **√** |  |
| 73 | 0302212 | 交通建设法规  Traffic Construction Rules | 1 | **√** |  |
| 74 | 0000060 | 数学建模  Mathematical Modeling | 2 |  | 基础部 |

**表4：交通工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集中实践 | 必修 | 75 | 0000095 | 思想道德与法治实践  Ideological Morality and  Legal Practice | 1 |  | 马院 |
| 76 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 77 | 0000096 | 毛泽东思想和中国特色社会主义理论体系概论实践  Practice for Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 1 |  | 马院 |
| 78 | 0000012D | 物理实验（水利土木类）  Physics Experiments | 1.5 |  | 基础部 |
| 79 | 04060131A | 土力学实验※  Soil Mechanics Experiments | 1 | **√** |  |
| 80 | 1300007 | 力学实验  Mechanics Experiments | 1 | **√** |  |
| 81 | 2107007 | 电工与电子技术实验  Practice for Electrical  Engineering &Electronics | 1.5 |  | 电信院 |
| 82 | 0700012 | 测量实习  Practice on Surveying | 1.5 | **√** |  |
| 83 | 07001751 | 道路勘测设计课程设计  Curriculum Design of  Survey & Design of Road | 1 | **√** |  |
| 84 | 0302121 | 交通规划课程设计  Curriculum Design of Traffic Planning | 1.5 | **√** |  |
| 85 | 2107008 | 认识实习  Cognition Practice | 1 | **√** |  |
| 86 | 0700177 | 交通调查  Traffic Research | 2 | **√** |  |
| 87 | 0700501A | 交通工程毕业实习  Graduation Practice | 2 | **√** |  |
| 88 | 0700503B | 交通工程生产实习  Construction Practice | 3 | **√** |  |
| 89 | 03022081 | 道路工程课程设计  Curriculum Design of Road Engineering | 1 | **√** |  |

**续表4-1：交通工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集中实践 | 必修 | 90 | 2107009 | 毕业设计（论文）  Undergraduate Paper | 14 | **√** |  |
| 91 | 00000D3 | 信息技术应用基础实践  ( ）  Application and practice of information technology | 1 |  | 电信院 |
| 92 | 030A203 | C语言课程设计  Course Design of C Language | 1 |  |
| 93 | 0302120 | 交通系统分析与仿真  课程设计  Curriculum Design of Analysis  & Emulation of Traffic System | 1.5 | **√** |  |
| 94 | 0302123 | 交通控制课程设计  Curriculum Design of Traffic Control | 1.5 | **√** |  |
| 95 | 0302122 | 交通港站课程设计  Curriculum Design of  Traffic Port Station | 1 | **√** |  |
| 96 | 0700059 | 工程材料实验※  Material Mechanics  Experiments | 1 | **√** |  |

地质工程专业课程归属

**表1：地质工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 1 | 0000088 | 思想道德与法治  Ideological Morality and Rule of Law | 2 |  | 马院 |
| 2 | 0000089 | 马克思主义基本原理  Basic Principles of Marxism | 3 |  |
| 3 | 0000090 | 中国近现代史纲要  Outline of Chinese Modern History | 3 |  |
| 4 | 2118002 | 毛泽东思想和中国特色社会主义理论体系概论  An Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 2 |  |
| 5 | 2118001 | 习近平新时代中国特色社会主义思想概论  An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 |  |
| 6 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 7 | 0000005A | 大学英语I  College English I | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  College English II | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  College English III | 4 |  |
| 10 | 00000A3 | 信息技术应用基础    Application and Practice of Information Technology | 1 |  | 电信院 |
| 11 | 0000001 | VB程序设计  VB Programming | 3 |  |
| 12 | 0000041 | 体育I  Physical Education I | 1 |  | 基础部 |
| 13 | 0000042 | 体育II  Physical Education II | 1 |  |
| 14 | 0000043 | 体育III  Physical Education III | 1 |  |
| 15 | 0000044 | 体育IV  Physical Education IV | 1 |  |

**续表1-1：地质工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 16 | 0000018 | 高等数学I  Advanced Mathematics I | 5 |  | 基础部 |
| 17 | 0000019 | 高等数学 II  Advanced Mathematics II | 6 |  |
| 18 | 0000048 | 线性代数  Linear Algebra | 2 |  |
| 19 | 0000017 | 概率论与数理统计  Probability & Mathematical Statistics | 3 |  |
| 20 | 0000010D | 大学物理I（水利土木类）  Physics I | 2 |  |
| 21 | 0000011D | 大学物理II（水利土木类）  Physics II | 2 |  |
| 22 | 00000A2 | 大学化学（2学分）  College Chemistry | 2 |  |
| 限 选 | 23 | 0000101 | 大学生心理健康教育  College Students'Mental Health Education | 1 |  |
| 24 | 0000102 | 大学生职业生涯规划  Occupational Career Planning of College Students | 1 |  |
| 25 | 0000A85 | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | 1 |  | 双创院 |
| 26 | 0000084 | 大学生就业指导实务  College Student Vocational Counsel | 1 |  | 基础部 |
| 27 | GXK0119 | 军事理论  Military Theory | 2 |  |
| 28 | GXK0159 | 劳动通论  General Theory of Labor | 2 |  |
| 任 选 | 29 |  | 科学技术类 | 1 |  |  |
| 30 |  | 人文社会类 | 1 |  |  |
| 31 |  | 艺术教育类 | 1 |  |  |
| 32 |  | 特色通识类 | 1 |  |  |
| 33 |  | 跨文化交流类 | 1 |  |  |

**表2：地质工程专业课程归属（专业基础）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业基础 | 必修 | 34 | 0700178 | 地质工程概论  Introduction to  Geo-engineering | 1 | **√** |  |
| 35 | 0700179 | 普通地质学\*  General Geology | 3 | **√** |  |
| 36 | 0700180 | 矿物岩石学  Mineralogy and Petrology | 2 | **√** |  |
| 37 | 0700183 | 地史古生物  Geohistory and Paleontology | 2 | **√** |  |
| 38 | 0700181 | 构造地质学  Structural Geology | 3 | **√** |  |
| 39 | 0700184 | 第四纪地质与地貌学  Quatenary Geology and Geomorph | 2 | **√** |  |
| 40 | 0700069 | 工程力学\*  Engineering Mechanics | 3 | **√** |  |
| 41 | 0700015 | 测量学  Survey | 2 | **√** |  |
| 42 | 0700506 | 土质学与土力学  Soil Science and Soil Mechanics | 3 | **√** |  |
| 43 | 0600083 | 水文地质学基础\*  General Hydrogeology | 2.5 | **√** |  |

**表3：地质工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 必修 | 44 | 0700198 | 钻探与掘探\*  Drilling & Tunnelling | 2 | **√** |  |
| 45 | 0700194 | 工程地质勘察\*  Engineering Geological Survey | 3 | **√** |  |
| 46 | 070A195 | 水文地质勘察  Hydrogeological Survey | 2 | **√** |  |
| 47 | 0700197 | 地质工程原位测试\*  Field Testing of Engineering  Geology | 1.5 | **√** |  |
| 48 | 0600082 | 地下水动力学\*  Dynamics of Groundwater | 3 | **√** |  |
| 49 | 0700186 | 岩体力学\*  Rock Mass Mechanics | 2.5 | **√** |  |
| 50 | 0700185 | 工程物探化探  Engineering Geophysical and  Geochemical Exploration | 2 | **√** |  |
| 52 | 0700187 | 工程地质原理\*  Theory of Engineering Geology | 4 | **√** |  |
| 53 | 070A196 | 地质工程设计  Geo-engineering Design | 2 | **√** |  |
| 选修 | 54 | 0700507 | 土木水利工程概论  Introduction to Civil and  Hydraulic Engineering | 2 | **√** |  |
| 55 | 0000077 | 计算方法  Computational Methods | 2 |  | 基础部 |
| 56 | 0000060 | 数学建模  Mathematical Modeling | 2 |  | 基础部 |
| 57 | 0301002 | 工程制图  Engineering Drawing | 2 | **√** |  |
| 58 | 0700508 | 遥感地质学及地质信息系统  Remote Sensing Geology & Geological  Information System | 2 | **√** |  |
| 59 | 0700193 | 环境地质学  Environmental Geology | 2 | **√** |  |
| 60 | 0300087B | 数字资源检索与利用  Retrieval & Utilization of Digytal Resources | 1 | **√** |  |

**续表3-1：地质工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专  业  教  育 | 选  修 | 61 | 0700224 | 地质工程CAD  Geo-engineering CAD | 2 | **√** |  |
| 62 | 0700188 | 地质工程概预算  General Estimate and Budget of Geo-engineering | 2 | **√** |  |
| 63 | 0700189 | 地质工程监理  Geo-engineering supervision | 2 | **√** |  |
| 64 | 0700225 | 水文地球化学  Hydro Geochemistry | 2 | **√** |  |
| 65 | 070B120 | 结构力学  Structural Mechanics | 2 | **√** |  |
| 66 | 040A063 | 钢筋混凝土结构原理  Principle of reinforced concrete  Structure | 2 | **√** |  |
| 67 | 0700199 | 专业英语  Professional English | 2 | **√** |  |
| 68 | 0700200 | 地质工程监测  Geo-engineering Monitoring | 2 | **√** |  |
| 69 | 0700201 | 地下水资源评价与管理  Evaluation and Management of  Ground Water Resources | 2 | **√** |  |
| 70 | 0700202 | 基础工程与地基处理  Foundation Engineering and  Treatment of the foundation | 2 | **√** |  |
| 71 | 0700509 | 水文地质数值分析与软件应用  Numerical Method of Hydrogeology and software application | 1.5 | **√** |  |
| 72 | 0700510 | 工程地质数值分析与软件应用  Numerical Method of  Engineering Geology and  software application | 1.5 | **√** |  |
| 73 | 0700142 | 地质灾害评估与防治  Evaluation and prevention of  Geological Disaster | 2 | **√** |  |
| 74 | 0700511 | 地下水污染与防治  Groundwater Contamination and Prevention | 2 | **√** |  |
| 75 | 080400A | 工程项目管理  Construction Project Management | 2 | **√** |  |
| 76 | 0700143 | 土壤修复技术  Soil remediation techniques | 2 | **√** |  |

**表4：地质工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集中实践 | 必修 | 77 | 0000095 | 思想道德与法治实践  Ideological Morality and  Legal Practice | 1 |  | 马院 |
| 78 | 0000096 | 毛泽东思想和中国特色社会主义理论体系概论实践  Practice for Mao Zedong Thought and the Theoretical System of Socialism with Chinese  Characteristics | 1 |  |
| 79 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 80 | 00000D3 | 信息技术应用基础实践    Application and Practice of Information Technology | 1 |  | 电信院 |
| 81 | 00000B1 | VB程序设计实践  VB Programming Practice | 1 |  |
| 82 | 0000012D | 物理实验（水利土木类）  Physics Experiments | 1.5 |  | 基础部 |
| 83 | 14030021 | 化学实验（0.5学分）  Chemistry Experiment | 0.5 |  |
| 84 | 0700206 | 矿物岩石实验  Mineralogy and Petrology Test | 1 | **√** |  |
| 85 | 0700012 | 测量实习  Practice of Surveying | 1.5 | **√** |  |
| 86 | 0700210 | 普通地质学实习  General Geology Practice | 2 | **√** |  |
| 87 | 0700207 | 构造地质实验  Structural Geology Test | 1 | **√** |  |
| 88 | 04060131A | 土力学实验  Soil Mechanics Experiment | 1 | **√** |  |
| 89 | 0700211 | 地质测绘实习  Field Geological Mapping | 5 | **√** |  |
| 90 | 0600038A | 水文地质勘察实习  Hydrogeological Survey | 0.5 | **√** |  |
| 91 | 0700208 | 工程物探实验  Geophysical Exploration Test | 1 | **√** |  |
| 92 | 0700512 | 工程地质勘察实习  Engineering geological  survey practice | 1 | **√** |  |

**续表4-1：地质工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
|  |  | 93 | 2107012 | 地质工程课程设计  Course design for  Geo-engineering | 1.5 | **√** |  |
| 94 | 0700516 | 地质工程生产实习  Production Practice for  Geoengineering | 3 | **√** |  |
| 95 | 0700501A | 毕业实习  Graduation Practice | 2 | **√** |  |
| 96 | 0700502 | 土木院毕业设计（论文）  Graduation Thesis | 14 | **√** |  |

安全工程专业课程归属

**表1：安全工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 1 | 0000088 | 思想道德与法治  Ideological Morality and Rule of Law | 2 |  | 马院 |
| 2 | 0000089 | 马克思主义基本原理  Basic Principles of Marxism | 3 |  |
| 3 | 0000090 | 中国近现代史纲要  Outline of Chinese Modern History | 3 |  |
| 4 | 2118002 | 毛泽东思想和中国特色社会主义理论体系概论  An Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 2 |  |
| 5 | 2118001 | 习近平新时代中国特色社会主义思想概论  An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 |  |
| 6 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 7 | 0000005A | 大学英语I  College English I | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  College English II | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  College English III | 4 |  |
| 10 | 00000A3 | 信息技术应用基础  Application and Practice of Information Technology | 1 |  | 电信院 |
| 11 | 0000001 | VB程序设计  VB Programming | 3 |  |
| 12 | 0000041 | 体育I  Physical Education I | 1 |  | 基础部 |
| 13 | 0000042 | 体育II  Physical Education II | 1 |  |
| 14 | 0000043 | 体育III  Physical Education III | 1 |  |
| 15 | 0000044 | 体育IV  Physical Education IV | 1 |  |

**续表1-1：安全工程专业课程归属（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 16 | 0000018 | 高等数学I  Advanced Mathematics I | 5 |  | 基础部 |
| 17 | 0000019 | 高等数学 II  Advanced Mathematics II | 6 |  |
| 18 | 0000048 | 线性代数  Linear Algebra | 2 |  |
| 19 | 0000017 | 概率论与数理统计  Probability & Mathematical Statistics | 3 |  |
| 20 | 0000010D | 大学物理I（水利土木类）  Physics I | 2 |  |
| 21 | 0000011D | 大学物理II（水利土木类）  Physics II | 2 |  |
| 22 | 00000A2 | 大学化学（2学分）  College Chemistry | 2 |  |
| 限 选 | 23 | 0000101 | 大学生心理健康教育  College Students'Mental Health Education | 1 |  |
| 24 | 0000102 | 大学生职业生涯规划  Occupational Career Planning of College Students | 1 |  |
| 25 | 0000A85 | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | 1 |  | 双创院 |
| 26 | 0000084 | 大学生就业指导实务  College Student Vocational Counsel | 1 |  | 基础部 |
| 27 | GXK0119 | 军事理论  Military Theory | 2 |  |
| 28 | GXK0159 | 劳动通论  General Theory of Labor | 2 |  |
| 任 选 | 29 |  | 科学技术类 | 1 |  |  |
| 30 |  | 人文社会类 | 1 |  |  |
| 31 |  | 艺术教育类 | 1 |  |  |
| 32 |  | 特色通识类 | 1 |  |  |
| 33 |  | 跨文化交流类 | 1 |  |  |

**表2：安全工程专业课程归属（专业基础）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专 业 基 础 | 必 修 | 34 | 0700226 | 安全工程概论  Introduction of Safety  Engineering | 1 | **√** |  |
| 35 | 0700070 | 工程力学I  Engineering Mechanics I | 4 | **√** |  |
| 36 | 0301001 | 工程制图I  Engineering Drawing I | 3 | **√** |  |
| 37 | 0301003 | 工程制图Ⅱ  Engineering DrawingⅡ | 2 | **√** |  |
| 38 | 0700130A | 流体力学 \*  Fluid Mechanics | 4 | **√** |  |
| 39 | 0700227 | 工程热力学与传热学 \*  Engineering Thermodynamics & Heat transferring | 3 | **√** |  |
| 40 | 2107005 | 电工及电子技术  Electrician and  Electronic Technology | 3 |  | 电信院 |
| 41 | 0700229 | 安全系统工程 \*  Safety System  Engineering | 2.5 | **√** |  |
| 42 | 0700230 | 安全管理学 \*  Safety Management | 2 | **√** |  |
| 43 | 0700231 | 安全人机工程 \*  Safe Man-machine  Engineering | 2.5 | **√** |  |
| 44 | 0700232 | 安全法学 \*  Security Law | 2 | **√** |  |
| 45 | 0700233 | 事故调查与分析技术  Accident Investigation  and AnalysisTechnology | 2 | **√** |  |
| 46 | 070A234 | 安全检测与监控 \*  Safety-test and  Monitoring | 2.5 | **√** |  |
| 47 | 0700235 | 防火防爆技术 \*  Fire and Explosion  Prevention Technology | 3 | **√** |  |

**表3：安全工程专业课程归属（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 必修 | 48 | 0700242 | 建筑安全工程  Construction Safety Engineering | 2 | **√** |  |
| 49 | 0700236 | 建筑消防工程学 \*  Building Fire Engineering | 2.5 | **√** |  |
| 50 | 0700237 | 机械与电气安全工程  Mechanical and Electrical Safety Engineering | 2 | **√** |  |
| 51 | 0700238 | 工业通风与除尘 \*  Industrial Ventilation and Dust Removal | 2.5 | **√** |  |
| 52 | 0700239 | 安全评价 \*  Safety Evaluation | 2 | **√** |  |
| 选修 | 53 | 0700240 | 职业安全与卫生学  Occupational Safety and Hygiene | 2 | **√** |  |
| 54 | 071764 | 安全心理学  Safety Psychology | 2 | **√** |  |
| 55 | 0700134C | 建筑概论  Architecture Introduction | 2 | **√** |  |
| 56 | 2107004 | 建筑施工安全管理与技术  Safety Management and Technology in Building Construction | 2 | **√** |  |
| 57 | 0700243 | 安全工程专业英语  Safety Engineering English | 2 | **√** |  |
| 58 | 0700244 | 安全行为学  Safety Behavior | 2 | **√** |  |
| 59 | 0700102 | 建筑装饰材料  Architectural Decorative Materials | 1 | **√** |  |
| 60 | 0804001 | 工程项目管理  Construction Project  Management | 1.5 | **√** |  |
| 61 | 0804013 | 工程项目估价  Estimation and  Bidding of Engineering Project | 1.5 | **√** |  |
| 62 | 0700245 | 安全经济学  Safety Economics | 2 | **√** |  |
| 63 | 0700270 | 工业特种设备安全  Safety of industrial  special equipment | 2 | **√** |  |

**表4：安全工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集中实践 | 必修 | 64 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 65 | 0000096 | 毛泽东思想和中国特色社会主义理论体系概论实践  Practice for Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 1 |  |
| 66 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 67 | 00000D3 | 信息技术应用基础实践    Application and practice of information technology | 1 |  | 电信院 |
| 68 | 00000B1 | VB程序设计实践  VB Programming Practice | 1 |  |
| 69 | 0000012D | 物理实验（水利土木类）  Physics Experiments | 1.5 |  | 基础部 |
| 70 | 14030021 | 化学实验（0.5学分）  Chemistry Experiment | 0.5 |  |
| 71 | 13000A7 | 力学实验  Mechanics Experiment | 0.5 | **√** |  |
| 72 | 0700253 | 流体力学实验※  Fluid Mechanics Experiment | 0.5 | **√** |  |
| 73 | 0700254 | 电工及电子实验※  Reinforced Concrete Experiment | 1.5 |  | 电信院 |
| 74 | 0700500 | 认识实习  Practice for Broadening Engineering Knowledge | 1 | **√** |  |
| 75 | 0700255 | 安全系统工程课程设计※  Course Design Work for Steel Structures | 1.5 | **√** |  |
| 76 | 0700256 | 安全人机工程课程设计※  Course Design of R.C Structures | 1.5 | **√** |  |
| 77 | 0700257 | 防火防爆课程设计※  Course Design of Building Construction | 1.5 | **√** |  |
| 78 | 0700258 | 工业通风与除尘课程设计※  Course Design Work for Building  Architectures | 1.5 | **√** |  |

**续表4-1：安全工程专业集中实践课程归属**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集中实践 | 必修 | 79 | 0700259 | 建筑消防工程学课程设计※  Course Design Work for  Building Architectures | 1.5 | **√** |  |
| 80 | 0700260 | 安全评价课程设计※  Course Design Work for Safety Evaluation | 1.5 | **√** |  |
| 81 | 0700501B | 生产实习  Construction Practice | 3 | **√** |  |
| 82 | 0700501A | 毕业实习  Graduation Field Work | 2 | **√** |  |
| 83 | 0700502 | 毕业设计（论文）  Undergraduate Paper | 14 | **√** |  |

地理空间信息工程专业课程归属

**表1：地理空间信息工程专业教学进程安排（公共基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 1 | 0000088 | 思想道德与法治  Ideological Morality and Rule of Law | 2 |  | 马院 |
| 2 | 0000089 | 马克思主义基本原理  Basic Principles of Marxism | 3 |  |
| 3 | 0000090 | 中国近现代史纲要  Outline of Chinese Modern History | 3 |  |
| 4 | 2118002 | 毛泽东思想和中国特色社会主义理论体系概论  An Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics | 2 |  |
| 5 | 2118001 | 习近平新时代中国特色社会主义思想概论  An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 3 |  |
| 6 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 7 | 0000005A | 大学英语I  College English I | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  College English II | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  College English III | 4 |  |
| 10 | 00000A3 | 信息技术应用基础  Application and Practice of Information Technology | 1 |  |
| 11 | 0300002 | C语言程序设计  Practice of C Programming | 3 |  |
| 12 | 0000041 | 体育I  Physical Education I | 1 |  |
| 13 | 0000042 | 体育II  Physical Education II | 1 |  |
| 14 | 0000043 | 体育III  Physical Education III | 1 |  |

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 公 共 基 础 | 必 修 | 15 | 0000044 | 体育IV  Physical Education IV | 1 |  | 基础部 |
| 16 | 0000018 | 高等数学I  Advanced Mathematics I | 5 |  |
| 17 | 0000019 | 高等数学II  Advanced Mathematics II | 6 |  |
| 18 | 0000048 | 线性代数  Linear Algebra | 2 |  |
| 19 | 0000017 | 概率论与数理统计  Probability & Mathematical Statistics | 3 |  |
| 20 | 0000010D | 大学物理I（水利土木机械类）  Physics I | 2 |  |
| 21 | 0000011D | 大学物理II（水利土木类）  PhysicsII | 2 |  |
| 限 选 | 22 | 0000101 | 大学生心理健康教育  College Students'Mental Health Education | 1 |  |
| 23 | 0000102 | 大学生职业生涯规划  Occupational Career Planning of College Students | 1 |  |
| 24 | 0000A85 | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | 1 |  | 双创院 |
| 25 | 0000084 | 大学生就业指导实务  College Student Vocational Counsel | 1 |  | 基础部 |
| 26 | GXK0119 | 军事理论  Military Theory | 2 |  |
| 27 | GXK0159 | 劳动通论  General Theory of Labor | 2 |  |
| 任 选 | 28 |  | 科学技术类 | 1 |  |  |
| 29 |  | 人文社会类 | 1 |  |  |
| 30 |  | 艺术教育类 | 1 |  |  |
| 31 |  | 特色通识类 | 1 |  |  |
| 32 |  | 跨文化交流类 | 1 |  |  |

**表2：地理空间信息工程专业教学进程安排（专业基础）**

| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 专业基础 | 必修 | 33 | 2207001 | 地理空间信息工程导论  Introduction to Geospatial Information Engineering | 2 | **√** |  |
| 34 | 0700033 | 地理学概论  Introduction to Geography | 2 | **√** |  |
| 35 | 2207016 | 空间数据结构  Spatial Data Structure | 2 | **√** |  |
| 36 | 0700035 | 地图制图学\*  Cartography | 3 | **√** |  |
| 37 | 0300186A | 数据库原理与方法  Principle and method of  Database | 2 | **√** |  |
| 38 | 0700148 | 数字测图原理与方法\*  Principle and Method  of Digital Surveying | 2 | **√** |  |
| 39 | 2207002 | 误差理论与测量平差基础\*  Theory of Errors and  Basis of Surveying  Adjustment | 3 | **√** |  |
| 40 | 2207018 | 计算机图形学\*  Computer Graphics | 2 | **√** |  |
| 41 | 2207003 | ArcGIS 软件应用  ArcGIS Application | 2 | **√** |  |
| 42 | 0700161 | 卫星定位技术与应用\*  Satellite Positioning  Technique and Application | 3 | **√** |  |
| 43 | 0700140 | 摄影测量学  Photogrammetry | 3 | **√** |  |
| 44 | 0700163B | 遥感原理与应用\*  Principles and Application of Remote Sensing | 2.5 | **√** |  |
| 45 | 0700004 | GIS原理与应用\*  Principle and  Application of GIS | 3 | **√** |  |
| 46 | 2207004 | 空间数据库技术及其应用\*  Spatial Database Technique and Application | 2 | **√** |  |

**表3：地理空间信息工程专业教学进程安排（专业教育）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 专业教育 | 必修 | 47 | 2107001 | GIS设计与工程\*  GIS design and Engineering | 3 | **√** |  |
| 48 | 03000A1 | C#程序设计  C# Program Design | 2 | **√** |  |
| 49 | 2207005 | GIS 开发  GIS development | 3 | **√** |  |
| 50 | 0700216 | 遥感数字图像处理  Remote Sensing Digital  Image Processing | 2 | **√** |  |
| 51 | 2207006 | 地理大数据与人工智能\*  Big Geospatial Data and  Artificial Intelligence | 2 | **√** |  |
| 52 | 0700149 | 数字地面模型与应用  Digital terrain model and application | 2 | **√** |  |
| 选修 | 53 | 0700009 | 测绘法规  Criterion of Surveying and Mapping | 2 | **√** |  |
| 54 | 0300087B | 数字资源检索与利用  Digital Information Resources Retrieval and Utilization | 1 | **√** |  |
| 55 | 080400A | 工程项目管理  Engineering Project Management | 2 | **√** |  |
| 56 | 0700010 | 测绘数据计算方法及程序设计  Surveying Data Processing Theory and Program Design | 2 | **√** |  |
| 57 | 2207007 | MapGIS 软件应用  MapGIS Application | 2 | **√** |  |
| 58 | 2207008 | SuperMap 软件应用  SuperMap Application | 2 | **√** |  |
| 59 | 0700001 | Auto CAD及应用  Auto CAD and Application | 2 | **√** |  |
| 60 | 0700006 | 变形监测技术与应用  Deformation monitoring  technique and application | 2 | **√** |  |
| 61 | 2207009 | 地理空间信息服务  Geospatial Information Service | 2 | **√** |  |
| 62 | 0700217 | 3S技术集成与应用  Integration and Application of GIS/RS/GNSS | 2 | **√** |  |
| 63 | 0700037 | 电子地图与应用  Electronic Map and Application | 2 | **√** |  |
| 64 | 2207010 | 航测飞控技术  Aerial survey flight control technology | 2 | **√** |  |
| 65 | 2207019 | 虚拟现实技术  Virtual reality technology | 2 | **√** |  |
| 66 | 2207011 | 自然资源调查  Natural Resource Survey | 2 | **√** |  |
| 67 | 2207017 | 三维建模  Three-dimensional modeling | 2 | **√** |  |
| 68 | 0000077 | 计算方法  Computational Method | 2 |  | 基础部 |
| 69 | 0000060 | 数学建模  Mathematical Modeling | 2 |  |

**表4：地理空间信息工程专业集中实践教学安排表**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程**  **类别** | **课程**  **性质** | **序号** | **课程编号** | **课程名称** | **学分** | **本院** | **外院** |
| 集中教学实践 | 必修 | 70 | 0000095 | 思想道德与法治实践  Moral, Ethics &  Fundamentals of Law | 1 |  | 马院 |
| 71 | 0000096 | 毛泽东思想和中国特色社会主义理论体系概论实践  Mao Zedong Thought and Introduction to the Theoretical System of Socialism with Chinese Characteristics | 1 |  |
| 72 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 73 | 0000012D | 物理实验（水利土木类）  Physics Experiments II | 1.5 |  | 基础部 |
| 74 | 00000D3 | 信息技术应用基础实践  Basic Practice of Information Technology Application | 1 |  | 电信院 |
| 75 | 030A203 | C语言课程设计  Practice of C Programming | 1 |  |
| 76 | 0700159 | 数字测图原理与方法实习※  Digital Mapping Practice | 4 | **√** |  |
| 77 | 2207012 | 地理学实习  Physical geography Practice | 2 | **√** |  |
| 78 | 0700A35 | 地图制图学课程设计  Mapping Drawing Curriculum Design | 1 | **√** |  |
| 79 | 0700160A | 卫星定位技术应用实习  Application of Satellite PositioningTechnique | 1.5 | **√** |  |
| 80 | 070B140 | 摄影测量实习※  Photogrammetry Practice | 2.5 | **√** |  |
| 81 | 2207013 | 地理信息系统实习  Practice of Geographic Information Systems | 2 | **√** |  |
| 82 | 0700218 | 遥感原理与应用课程设计  Principles and Application of Remote Sensing Curriculum Design | 1 | **√** |  |
| 83 | 2207014 | 空间数据建库实习  Practice of building spatial data database | 2 | **√** |  |
| 84 | 2207015 | GIS设计开发综合实习  Integrated Practice of GIS Design and Development | 2 | **√** |  |
| 85 | 0700501A | 毕业实习  Undergraduate Field Work | 2 | **√** |  |
| 86 | 0700502 | 毕业论文  Undergraduate Paper | 14 | **√** |  |