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水利水电工程专业课程归属

**表1： 水利水电工程专业课程归属（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 Languages Ⅰ | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  College Languages Ⅱ | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  College Languages 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 |  |
| 16 | 0000018 | 高等数学I  Advanced Mathematics I | 5 |  |
| 17 | 0000019 | 高等数学 II  Advanced Mathematics II | 6 |  |
| 18  公共基础 | 0000048 | 线性代数  Linear Algebra | 2 |  | 基础部 |
| 19  必修 | 0000017 | 概率论与数理统计  Probability & 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 |  |
| 公共基础 | 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：水利水电工程专业课程归属（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 | 0201002 | 土木水利专业导论  Introduction to Civil and Hydraulic Engineering | 1 | **√** |  |
| 34 | 0301001 | 工程制图Ⅰ  Engineering Drawing I | 3 | **√** |  |
| 35 | 0301003 | 工程制图Ⅱ  Engineering DrawingⅡ | 2 | **√** |  |
| 36 | 0402001 | 理论力学  Theoretical Mechanics | 4 |  | 土木院 |
| 37 | 0700007 | 材料力学\*  Material Mechanics | 4 |  |
| 38 | 0700120 | 结构力学  Structural Mechanics | 4 |  |
| 39 | 0700015 | 测量学  Surveying | 2 |  |
| 40 | 0700057 | 工程材料  Engineering Material | 1.5 |  |
| 41 | 0700062 | 工程地质  Engineering Geology | 2 |  |
| 42 | 0600031 | 水力学\*  Hydraulics | 4.5 | **√** |  |
| 43 | 0600007 | 工程水文学  Engineering Hydrology | 2 | **√** |  |
| 44 | 0700154 | 土力学  Soil Mechanics | 3 |  | 土木院 |
| 45 | 0700045 | 钢结构原理  Steel Structure | 2 | **√** |  |
| 46 | 0700046 | 钢筋混凝土结构\*  Reinforced Concrete Structure | 4 | **√** |  |

**表3：水利水电工程专业课程归属（专业教育必修）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 0600040 | 水资源规划及利用\*  Water Resources Planning and Development | 3 | **√** |  |
| 48 | 2106012 | 水工建筑物A\*  Hydraulic Structure A | 3.5 | **√** |  |
| 49 | 2106014 | 水利工程施工\*  Hydraulic Engineering Construction | 3 | **√** |  |
| 50 | 2106021 | 水电站\*  Hydropower Station | 3.5 | **√** |  |

**表4：水利水电工程专业课程归属（专业教育选修）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 51 | GXK0036 | 数字资源检索与数据素养  Digital Resource Retrieval and Data Literacy | 1 | **√** |  |
| 52 | 2106005 | 水利法规（必选）  Water Law | 1.5 | **√** |  |
| 53 | 0201001 | 工程经济（必选）  Engineering Economics | 2 | **√** |  |
| 54 | 1401044 | 环境工程概论  Introduction to Environment Engineering | 1.5 | **√** |  |
| 55 | 2106003 | 水利专业英语  English for Water Resources | 2 | **√** |  |
| 56 | 0700020 | 城市水务工程  Urban Water  Engineering | 1.5 | **√** |  |
| 57 | 0700030 | 地基处理技术  Foundations  Engineering | 1.5 |  | 土木院 |
| 58 | 0700126 | 可再生能源工程  Renewable Energy  Engineering | 1 | **√** |  |
| 59 | 0804001 | 工程项目管理  Construction Project Management | 1.5 | **√** |  |
| 60 | 1021059 | 工程概预算  Cost Estimation  of Project | 1.5 | **√** |  |
| 61 | 2106002 | 水务水政管理  Water Management | 1.5 | **√** |  |
| 62 | 2106004 | 河流动力学（双语）  River Hydrodynamics | 2 | **√** |  |
| 63 | 0600003 | 防洪抢险技术  Technology of Emergency Flood Fighting | 1 | **√** |  |
| 64 | 0600045 | 坝工新材料及新技术  New Material and  Technology Of Dam | 1.5 | **√** |  |
| 65 | 2106001 | BIM技术与工程应用  BIM Technology and Engineering Application | 2 | **√** |  |
| 66 | 2106013 | 水工建筑物B（必选）  Hydraulic Structure B | 1 | **√** |  |

**表5：水利水电工程专业集中实践课程归属**

| **实践性质** | **序号** | **课程（组）**  **编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- |
| 必 修 | 67 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 68 | 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 |  |
| 69 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 70 | 00000D3 | 信息技术应用基础实践  Application and Practice of Information Technology | 1 |  | 电信院 |
| 71 | 00000B1 | VB程序设计实践  VB Programming Practice | 1 |  |
| 72 | 0000012D | 物理实验（水利土木类）  Physics Experiments I | 1.5 |  | 基础部 |
| 73 | 0700012 | 测量实习  Field Work for Surveying | 1.5 |  | 土木院 |
| 74 | 1404055 | 水力学实验  Experiment for Hydraulics | 1 | **√** |  |
| 75 | 0700058 | 工程材料实验※  Experiment for Engineering  Material | 1 |  | 土木院 |
| 76 | 1300007 | 力学实验  Experiment for Mechanics | 1 |  |
| 77 | 2106024 | 认识实习  Study Trip I | 2 | **√** |  |
| 78 | 04060131A | 土力学实验※  Experiment for Soil Mechanics | 1 |  | 土木院 |
| 79 | 0700064 | 工程地质实验实习  Field Work and Experiment for Engineering Geology | 0.5 |  |
| 80 | 0700043 | 钢结构课程设计  Course Project for Steel Structure | 1 | **√** |  |
| 81 | 0401068 | 钢筋混凝土课程设计  Courses Project for Reinforced Concrete Structure | 2 | **√** |  |
| 82 | 2106023 | 水资源规划课程设计  Course Project for Water Resources Planning and Development | 1.5 | **√** |  |
| 83 | 0600001 | 坝工课程设计  Course Project for Hydraulic Structure(水工建筑物) | 2 | **√** |  |
| 84 | 2106022 | 水电站课程设计  Course Project for Hydropower Station | 2 | **√** |  |
| 85 | 2106018 | 水利工程施工课程设计  Course Project for Hydraulic Engineering Construction | 2 | **√** |  |
| 86 | 0100001 | 水工实训※  Study Trip for Hydraulic Structure | 2 | **√** |  |
| 87 | 0600503 | 水利院毕业实习  Study Trip Ⅱ | 3 | **√** |  |
| 88 | 0600502 | 水利院毕业设计  Undergraduate Paper | 14 | **√** |  |

港口航道与海岸工程专业课程归属

**表1：港口航道与海岸工程专业课程归属（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 Languages Ⅰ | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  College Languages Ⅱ | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  College Languages 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 |  |
| 16 | 0000018 | 高等数学I  Advanced Mathematics I | 5 |  | 基础部 |
| 17  必修  公共基础 | 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 & 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 |  |
| 公共基础 | 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：港口航道与海岸工程专业课程归属（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** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 专业基础课 | 必修 | 33 | 0301001 | 工程制图Ⅰ  Engineering DrawingⅠ | 3 | **√** |  |
| 34 | 0301003 | 工程制图Ⅱ  Engineering Drawing Ⅱ | 2 | **√** |  |
| 35 | 0700015 | 测量学  Survey | 2 |  | 土木院 |
| 36 | 0402001 | 理论力学  Theoretical Mechanics | 4 |  |
| 37 | 0700007 | 材料力学  Material Mechanics | 4 |  |
| 38 | 0700120 | 结构力学  Structural Mechanics | 4 |  |
| 39 | 0700154 | 土力学  Soil Mechanics | 3 |  |
| 40 | 06000312 | 水力学  Hydraulics | 4 | **√** |  |
| 41 | 0700B46 | 钢筋混凝土结构  Reinforced Concrete  Structures | 4 | **√** |  |
| 42 | 0600007A | 工程水文学  Engineering Hydrology | 1.5 | **√** |  |
| 43 | 0302003 | 海岸动力学\*  Coastal Hydrodynamics | 2 | **√** |  |
| 44 | 0201053 | 河流动力学（双语）\*  River Hydrodynamics | 2 | **√** |  |
| 45 | 0201042 | 水利工程概论  Introduction to Hydraulic Engineering | 2 | **√** |  |

**表3：港口航道与海岸工程专业课程归属（专业教育必修）**

| **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 | 46 | 0201002 | 土木水利专业导论  Introduction to Civil and  Hydropower Engineering | 1 | **√** |  |
| 47 | 0600074 | 港口海岸水工建筑物\*  Harbor&Coastal  Engineering Hydraulic  Structures | 3 | **√** |  |
| 48 | 0600075 | 航道整治\*  Waterway Regulation | 1.5 | **√** |  |
| 49 | 0600076 | 渠化工程\*  Canalization Engineering | 1.5 | **√** |  |
| 50 | 0600077 | 港口工程规划\*  Port Engineering Planning | 1.5 | **√** |  |
| 51 | 0700057 | 工程材料  Engineering Material | 1.5 |  | 土木院 |
| 52 | 0700072B | 水运工程施工  Engineering Construction | 3.5 | **√** |  |

**表4：港口航道与海岸工程专业课程归属（专业教育选修）**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | | 53 | 1401044 | 环境工程概论  EnvironmentalEngineering | 1.5 | **√** |  |
| 54 | 0700062B | 工程地质  Engineering Geology | 1.5 |  | 土木院 |
| 55 | 0600073 | 水运工程经济  Water Transport  Engineering Economics | 1.5 | **√** |  |
| 56 | 0804001 | 工程项目管理  Project Management | 1.5 | **√** |  |
| 57 | 0700088 | 基础工程  Foundation Engineering | 1.5 |  | 土木院 |
| 58 | 0700030 | 地基处理技术  Improvement Method  Of Foundation | 1.5 |  |
| 59 | 0600079 | 港口装卸工艺  Loading & Unloading  Techniques at Harbor | 1 | **√** |  |
| 60 | 0302018 | 道路工程  Road Engineering | 1.5 | **√** |  |
| 61 | 0302019 | 桥梁工程  Bridge Engineering | 1.5 | **√** |  |
| 62 | 0700100 | 建筑工程概论  Building Engineering | 2 | **√** |  |
| 63 | 0302027 | 海岸带开发与利用  Coastal Zone Exploitation& Using | 1 | **√** |  |
| 64 | 0401004 | 工程建设法规  Engineering Laws | 1 | **√** |  |
| 65 | 0302196 | 航道疏浚工程  Waterway Dredge Engineering | 1 | **√** |  |
| 66 | 0302199 | 工程设计软件应用  Application of Engineering  Design Software | 1.5 | **√** |  |
| 67 | 0600078 | 工程模型理论及试验技术（限选）  Navigation Engineering Model Theory  & Experiment | 1.5 | **√** |  |
|  | 68 | | 0600062 | 河道整治（限选） | 1.5 | **√** |  |
| 69 | | 0600511 | 水利专业英语  Water Conservancy  Professional English | 1.5 | **√** |  |
| 70 | | 0700045 | 钢结构原理  Steel Structures | 2 | **√** |  |

**表5：港口航道与海岸工程专业集中实践课程归属**

| **实践性质** | **序号** | **课程（组）**  **编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- |
| 必 修 | 71 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 72 | 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 |  |
| 73 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 74 | 0000012D | 物理实验(水利土木类)  Physics Experiments I | 1.5 |  | 基础部 |
| 75 | 00000D3 | 信息技术应用基础实践  Application and Practice of Information Technology | 1 |  | 电信院 |
| 76 | 00000B1 | VB程序设计实践  VB Programming Practice | 1 |  |
| 77 | 0300007 | 力学实验  Mechanics Experiments | 1 |  | 土木院 |
| 78 | 04060131A | 土力学实验※  Soil Mechanics Experiments | 1 |  |
| 79 | 1404055 | 水力学实验  Hydraulic Experiment | 1 | **√** |  |
| 80 | 0700059 | 工程材料实验※  Experiment of Engineering Materials | 1 |  | 土木院 |
| 81 | 2106024 | 认识实习  Realizing Practice | 2 | **√** |  |
| 82 | 0700047 | 钢筋混凝土课程设计  Courses Design for Reinforced  Concrete Structure | 1.5 | **√** |  |
| 83 | 0302218 | 港口工程规划课程设计  Course Design of Port Engineering  Planning | 1 | **√** |  |
| 84 | 0700012 | 测量实习  Practice on Surveying | 1.5 |  | 土木院 |
| 85 | 0302030 | 港航工程综合实验※  Comprehensive Experiment of  Harbor & Waterway Engineering | 1.5 |  |
| 86 | 0700074 | 工程施工课程设计  Course Design of Engineering  Construction | 1.5 | **√** |  |
| 87 | 0302203 | 航道整治课程设计  Course Design of Waterway  Regulation | 1 | **√** |  |
| 88 | 0302204 | 码头、船闸课程设计  Course Design of Navigation Lock & Dock | 2 | **√** |  |
| 89 | 0401042 | 生产实习  Graduation Practice | 3 |  | 土木院 |
| 90 | 0600502 | 毕业设计（论文）  Graduation Design | 14 | **√** |  |

水文与水资源工程专业课程归属

**表1：水文与水资源工程专业课程归属（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 Languages Ⅰ | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  College Languages Ⅱ | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  College Languages 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 |  |
| 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 | 0000083 | 工程数学  Engineering Mathematics | 2 | **√** |  |
| 20 | 0000010D | 大学物理I（水利土木类）  Physics I | 2 |  | 基础部 |
| 21 | 0000011D | 大学物理II（水利土木类）  PhysicsII | 2 |  |
| 公共基础 | 限选 | 22 | GXK0126 | 大学生心理健康教育  College Students 'Mental Health Education | 1 |  |
| 23 | Z000086 | 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 |  |
| 选 修 | 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：水文与水资源工程专业课程归属（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 | 1 | 2106009 | 水文与水资源工程导论  Introduction to Hydrology and Water Resources Engineering | 1 | **√** |  |
| 2 | 00000A2 | 大学化学（2学分）  College Chemistry | 2 | **√** |  |
| 3 | 0103101 | 自然地理学  Physical Geography | 2.5 | **√** |  |
| 4 | 0700015 | 测量学  Survey | 2 |  | 土木院 |
| 5 | 0102105A | 水资源系统优化方法  Method of Optimal Allocation for Water Resources | 2 | **√** |  |
| 6 | 06000312 | 水力学  Hydraulics | 4 | **√** |  |
| 7 | 0201042 | 水利工程概论  Introduction to Hydraulic Engineering | 2 | **√** |  |
| 8 | 0103102 | 遥感与GIS  Remote Sensing and GIS | 2.5 | **√** |  |
| 9 | 0102102 | 生态学概论  Introduction to Ecology | 2 | **√** |  |
| 10 | 0101003 | 水文学原理\*  Principle of Hydrology | 5 | **√** |  |
| 11 | 0101004 | 水文统计\*  Hydrologic Statistics | 5 | **√** |  |
| 12 | 0101005 | 气象学  Meteorology | 3 | **√** |  |
| 13 | 0102121 | 水环境监测与分析  Water Environment Monitoring and Analyzing | 2.5 | **√** |  |
| 14 | 0101002 | 水利经济  Hydraulic Economics | 2 | **√** |  |

**表3：水文与水资源工程专业课程归属（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 | 15 | 0101059A | 水文测验学\*  Hydrometry | 2.5 | **√** |  |
| 16 | 0101019 | 水文预报\*  Hydrologic Forecasting | 2 | **√** |  |
| 17 | 0101036 | 水文计算\*  Hydrological Design | 2 | **√** |  |
| 18 | 0600071 | 水利计算\*  Water Conservancy Computation | 2 | **√** |  |
| 19 | 0102105 | 水资源利用\*  Water Resources Utilization | 2 | **√** |  |
| 20 | 0101021 | 水环境保护\*  Protection Of Water Environment | 2 | **√** |  |
| 21 | 0101007 | 地下水水文学（双语）  Groundwater Hydrology | 2 | **√** |  |
| 选修 | 22 | 0700001 | AUTO CAD 及应用  AUTO CAD and Application | 2 | **√** |  |
| 23 | 0100002 | 数据库技术及应用  Database and Application | 1 | **√** |  |
| 24 | 0600061 | 水灾害防治  Flood Disaster Prevention | 1.5 | **√** |  |
| 25 | 0101052 | 水政管理（限选）  Management of Water Policy | 1.5 | **√** |  |
| 26 | 0600053 | 水质模型（限选）  Water Quality Models | 2 | **√** |  |
| 27 | 0600081 | 水处理技术  Wasterwater Treatment Engineering | 1.5 | **√** |  |
| 28 | 0600049 | 水土保持原理与技术  Water and Soil Conservation Principle and Technology | 2 | **√** |  |
| 29 | 0600511 | 水利专业英语  Professional English For Hydraulic Engineering | 1.5 | **√** |  |
| 30 | 0201053 | 河流动力学  River Dynamics | 2 | **√** |  |
| 31 | 0101053 | 中长期水文预报  Long and Middle Term Hydrological Forecasting | 1.5 | **√** |  |
| 32 | 0101013 | 随机水文学  Stochastic Hydrology | 2 | **√** |  |
| 33 | 0101041 | 水库群优化调度  Optimal Operation of Reservoirs Systems | 1 | **√** |  |
| 34 | 2106010 | 节水技术与管理  Water Saving Technology and Management | 1.5 | **√** |  |
| 35 | 2106008 | 江河治理与防洪工程  River Governing & Flood Defence Engineering | 2 | **√** |  |

**表4：水文与水资源工程专业集中实践课程归属**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **实践性质** | **序号** | **课程（组）**  **编号** | **课程名称** | **学分** | **本院** | **外院** |
| 必修 | 1 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 2 | 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 |  |
| 3 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 4 | 0000012D | 物理实验（水利土木类）  Physics Experiments | 1.5 |  | 基础部 |
| 5 | 1403010 | 化学实验（1学分）  Chemistry Experiments | 1 |  |
| 6 | 0700012 | 测量实习  Practice of Surveying | 1.5 |  | 土木院 |
| 7 | 0101031 | 自然地理学实习  Field Practice of Physical Geography | 1 | **√** |  |
| 8 | 1404055 | 水力学实验  Hydraulic Experiments | 1 | **√** |  |
| 9 | 0101061 | 遥感与GIS实习  Remote Sensing and GIS Practice | 1 | **√** |  |
| 10 | 2106017 | 水文水资源认识实习  Realizing Practice on Hydrology and Water Resources | 2 | **√** |  |
| 11 | 0101033 | 气象实习  Meteorological Practice | 1 | **√** |  |
| 12 | 00000D3 | 信息技术应用基础实践  Application and Practice of Information Technology | 1 |  | 电信院 |
| 13 | 00000B1 | VB程序设计实践  VB Programming Practice | 1 |  |

**续表4：水文与水资源工程专业集中实践课程归属**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **实践性质** | **序号** | **课程（组）**  **编号** | **课程名称** | **学分** | **本院** | **外院** |
| 必修 | 14 | 0101034 | 水文测验实习(含整编课设) ※  Hydrometry Field Practice and Data Processing | 2 | **√** |  |
| 15 | 0101035 | 水资源利用课程设计  Course Design for Water Resources Utilization | 1 | **√** |  |
| 16 | 0101032 | 水文预报课程设计  Course Design for Hydrological Forecasting | 1 | **√** |  |
| 17 | 0101037 | 水文计算课程设计  Course Design for Hydrological Design | 1 | **√** |  |
| 18 | 0600072 | 水利计算课程设计  Course Design for Water Conservancy Computation | 1 | **√** |  |
| 19 | 0102107 | 水环境保护课程设计  Course Design for Water Environment Protection | 1 | **√** |  |
| 20 | 2106016 | 水文水资源综合实习  Comprehensive Practice on Hydrology and Water Resources | 3 | **√** |  |
| 21 | 0600502 | 水利院毕业设计（论文）  Undergraduate Paper | 14 | **√** |  |

水务工程专业课程归属

**表1： 水务工程专业教学课程归属（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 Languages Ⅰ | 3 |  | 基础部 |
| 8 | 0000006 | 大学英语II  College Languages Ⅱ | 4 |  |
| 9 | 0000007 | 大学英语Ⅲ  College Languages 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 |  |
| 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 |  | 基础部 |
| 19  必修  公共基础 | 0000017 | 概率论与数理统计  Probability & 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 |  |
| 公共基础 | 限选 | 22 | GXK0126 | 大学生心理健康教育  College Students 'Mental Health Education | 1 |  |
| 23 | Z000086 | 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 | 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：水务工程专业课程归属（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 | 1 | 00000A2 | 大学化学（2学分）  College Chemistry | 2 |  | 基础部 |
| 2 | 0301002 | 工程制图  Engineering Drawing | 2 | **√** |  |
| 3 | 0700015 | 测量学  Survey | 2 |  | 土木院 |
| 4 | 0700056 | 工程材料  Engineering Materials | 1.5 |  |
| 5 | 0700001 | AUTO CAD 及应用  AUTO CAD and Application | 2 | **√** |  |
| 6 | 0600048 | 生态环境概论  General Ecological Environment Introduction | 2 | **√** |  |
| 7 | 06000312 | 水力学\*  Hydraulics | 4 | **√** |  |
| 8 | 0700070 | 工程力学  Engineering Mechanics | 4 |  | 土木院 |
| 9 | 0600046 | 水利工程经济学  Engineering Economics | 2 | **√** |  |
| 10 | 0600083A | 水文地质及工程地质  Hydrogeology and Engineering Geology | 2 |  | 土木院 |
| 11 | 0600007 | 工程水文学  Engineering Hydrology | 2 | **√** |  |
| 12 | 0600056A | 城市水利工程  Urban Hydraulic Engineering | 2 | **√** |  |
| 13 | 0700154 | 土力学  Soil Mechanics | 3 |  | 土木院 |
| 14 | 2106011 | 钢筋混凝土结构  Reinforced Concrete Structure | 3 | **√** |  |
| 15 | 0600047 | 城市水资源利用与管理  Urban Water Resources Utilization and Management | 2 | **√** |  |

**表3：水务工程专业课程归属（专业教育必修）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 1 | 0600060 | 水环境评价与保护  Water Environment Assessment and Protection | 1.5 | **√** |  |
| 2 | 0100003 | 农田水利学\*  Farmland water conservancy | 3 | **√** |  |
| 3 | 1402023B | 水泵与泵站\*  Water Pumps & Pump Stations | 2.5 | **√** |  |
| 4 | 0600055A | 节水技术  Technique of Water Saving | 2 | **√** |  |
| 5 | 0600057 | 给水排水工程\*  Water Supply and Drainage Engineering | 3 |  | 土木院 |
| 6 | 0600A58 | 水处理工程  Water Treatment Engineering | 2 | **√** |  |

**表4：水务工程专业课程归属（专业教育选修）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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  （  含  限  选  ） | 7 | 0600051 | 地理信息系统  Geographical Information System | 2 | **√** |  |
| 8 | 0300076 | 数据库技术及应用  Database and Application | 2 | **√** |  |
| 9 | 2106019 | 流域水文模型  Basin Hydrological Model | 2 | **√** |  |
| 10 | 0600061 | 水灾害防治  Flood Disaster Prevention | 1.5 | **√** |  |
| 11 | 0100004 | 地下水利用（双语）  Groundwater utilization | 1.5 | **√** |  |
| 12 | 0600052 | 计算机网络  Computer networks | 2 | **√** |  |
| 13 | 0600064 | 水利法规（限选） Water Law | 1 | **√** |  |
| 14 | 0600071 | 水利计算  Hydraulic calculation | 2 | **√** |  |
| 15 | 0600049 | 水土保持原理与技术  Water and Soil Conservation Principle and Technology | 1.5 | **√** |  |
| 16 | 0600053 | 水质模型（限选）  Water Quality Models | 2 | **√** |  |
| 17 | 0600511 | 水利专业英语  Professional English For Hydraulic Engineering | 1.5 | **√** |  |
| 18 | 0600054 | 遥感原理及应用  Remote Sensing Technology and Application | 1 | **√** |  |
| 19 | 0700072A | 工程施工（限选） Construction of works | 1.5 | **√** |  |
| 20 | 0600063 | 水务信息系统  Information System For Water Management | 1.5 | **√** |  |
| 21 | 0600062 | 河道整治 River Harness | 1.5 | **√** |  |
|  | 22 | 0600059 | 水务规划与管理  Water Engineering Planning and Management | 1.5 | **√** |  |

**表5：水务工程专业集中实践课程归属**

| **集**  **中**  **实**  **践** | **实**  **践**  **性**  **质** | **序号** | **课程（组）**  **编号** | **课 程 名 称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 必  修 | 1 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 2 | 0000029 | 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 | 1.5 |  |
| 3 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 4 | 1403010 | 化学实验（1学分）  Chemistry Experiments | 1 |  | 基础部 |
| 5 | 00000D3 | 信息技术应用基础实践  Application and Practice of Information Technology | 1 |  | 电信院 |
| 6 | 00000B1 | VB程序设计实践  VB Programming Practice | 1 |  |
| 7 | 0000012D | 物理实验(水利土木类) Physics Experiments I | 1.5 |  | 基础部 |
| 8 | 0700012 | 测量实习  Practice on Surveying | 1.5 |  | 土木院 |
| 9 | 1404055 | 水力学实验※  Hydraulic Experiments | 1 |  |
| 10 | 0600509 | 工程水文学课程设计  Course Design of Engineering Hydrology | 1 | **√** |  |
| 11 | 04060131A | 土力学实验※  Soil Mechanics | 1 |  | 土木院 |
| 12 | 2106066 | 水务工程认识实习  Practice for Broadening Water Engineering Knowledge | 2 | **√** |  |
| 13 | 0600505 | 农田水利学课程设计  Course Design of farmland water conservancy | 1.5 | **√** |  |
| 14 | 1402036A | 水泵与泵站课程设计  Course Design of Water Pumps & Pump Stations | 1.5 | **√** |  |
|  | 15 | 0600070 | 给水排水工程课程设计  Course Design of Water Supply and Drainage Engineering | 1.5 |  | 土木院 |
| 16 | 0600068 | 城市水资源利用与管理课程设计  Course Design for Water Resources Utilization and Management | 1 | **√** |  |
| 17 | 2106065 | 水环境评价与保护课程设计  Course Design for Water Environment Assessment and Protection | 1 | **√** |  |
| 18 | 0600501A | 专业综合实习 | 3 | **√** |  |
| 19 | 0600502A | 毕业设计（论文）  Undergraduate Paper | 14 | **√** |  |

农业资源与环境专业课程归属

**表1： 农业资源与环境专业教学课程归属（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 | 0000091 | 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 | 4 |  |
| 5 | 0000092 | 形势与政策  Situation and Policy | 2 |  |
| 6 | 0000005A | 大学英语I  College Languages Ⅰ | 3 |  | 基础部 |
| 7 | 0000006 | 大学英语II  College Languages Ⅱ | 4 |  |
| 8 | 0000007 | 大学英语Ⅲ  College Languages Ⅲ | 4 |  |
| 9 | 00000A3 | 信息技术应用基础  Application and Practice of Information Technology | 1 |  | 电信院 |
| 10 | 0000001 | VB程序设计  VB Programming | 3 |  |
| 11 | 0000041 | 体育I  Physical Education I | 1 |  | 基础部 |
| 12 | 0000042 | 体育II  Physical Education II | 1 |  |
| 13 | 0000043 | 体育III  Physical Education III | 1 |  |
| 14 | 0000044 | 体育IV  Physical Education IV | 1 |  |
| 15 | 0000018 | 高等数学I  Advanced Mathematics I | 5 |  |
| 16 | 0000019 | 高等数学 II  Advanced Mathematics II | 6 |  | 基础部 |
| 17  必修  公共基础 | 0000048 | 线性代数  Linear Algebra | 2 |  |
| 18 | 0000017 | 概率论与数理统计  Probability & Statistics | 3 |  |
| 19 | 0000010D | 大学物理I  （水利土木类）  Physics I | 2 |  |
| 20 | 0000011D | 大学物理II  （水利土木类）  PhysicsII | 2 |  |
| 公共基础 | 限选 | 21 | 0000101 | 大学生心理健康教育  College Students 'Mental Health Education | 1 |  |
| 22 | 0000102 | 大学生职业生涯规划  Occupational Career Planning of College Students | 1 |  |
| 23 | 0000A85 | 大学生创新创业指导  Innovation and Entrepreneurship Guidance for College Students | 1 |  | 双创院 |
| 24 | 0000084 | 大学生就业指导实务  College Student Vocational Counsel | 1 |  | 基础部 |
| 25 | GXK0119 | 军事理论  Military Theory | 2 |  |
| 26 | GXK0159 | 劳动通论  General Theory of Labor | 2 |  |
| 任选 | 27 |  | 科学技术类 | 1 |  |  |
| 28 |  | 人文社会类 | 1 |  |  |
| 29 |  | 艺术教育类 | 1 |  |  |
| 30 |  | 特色通识类 | 1 |  |  |
| 31 |  | 跨文化交流类 | 1 |  |  |

**表2：农业资源与环境专业课程归属（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 | 32 | 0100005 | 无机及分析化学  Inorganic and Analytical Chemistry | 4 | **√** |  |
| 33 | 0600514 | 有机化学  Organic Chemistry | 3 | **√** |  |
| 34 | 0100006 | 试验化学  Experimental Chemistry | 2 | **√** |  |
| 35 | 0600512 | 基础微生物学  Fundamental Microbiology | 2 | **√** |  |
| 36 | 0600513 | 基础生物化学  Fundamentals of Biochemistry | 2 | **√** |  |
| 37 | 0100008 | 植物学  Botany | 1 | **√** |  |
| 38 | 0100010 | 地质学基础  Basic Geology | 2 | **√** |  |
| 39 | 0100011 | 环境科学概论  Introduction to Environmental Science | 2 | **√** |  |
| 40 | 0100012 | 植物生理学  Plant Physiology | 2 | **√** |  |
| 41 | 0100013 | 土壤学\*  Soil Science | 3 | **√** |  |
| 42 | 0100014 | 普通生态学\*  General Ecology | 2 | **√** |  |
| 43 | 0100015 | 植物营养学\*  Plant Nutrition | 3 | **√** |  |
| 44 | 0600084 | 生物统计与田间试验\*  Biostatistics and Field Experiment | 2 | **√** |  |

**表3：农业资源与环境专业课程归属（专业教育必修）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 0100016 | 水资源与水环境管理  Management of Water Resources and Water Environment | 2 | **√** |  |
| 46 | 0100017 | 资源环境分析\*  Resource and Environmental Analysis | 2 | **√** |  |
| 47 | 0100018 | 肥料工艺与肥料资源利用  Fertilizer Technology and Fertilizer Resource Utilization | 2 | **√** |  |
| 48 | 2106200 | 资源环境生物技术  Biotechnology of Resources and Environment | 2 | **√** |  |
| 49 | 0100019 | 土壤资源调查与评价  Soil Resource Survey and Evaluation | 2 | **√** |  |

**表4：农业资源与环境专业课程归属（专业教育选修）**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 50 | 0100020 | 全球变化  Global Changes | 2 | **√** |  |
| 51 | 0100021 | 土壤污染控制与修复\*  Control and Remediation of Soil Pollution | 2 | **√** |  |
| 52 | 0100022 | 应用遥感技术  Application of Remote Sensing Technology | 2 | **√** |  |
| 53 | 0100022A | 应用遥感技术实验  Experiment in Application of Remote Sensing Technology | 2 | **√** |  |
| 54 | 0100023 | 资源学概论  Introduction to Resource Science | 2 | **√** |  |
| 55 | 0100024 | 环境管理学  Environmental Management | 2 | **√** |  |
| 56 | 0104007 | 水土保持原理与技术  Water and Soil Conservation Principle and Technology | 2 | **√** |  |
| 57 | 0100026 | 产地环境与农产品质量管理  Environment of Producing Areas and Quality Control of Farm Products | 2 | **√** |  |
| 58 | 0100027 | 环境质量评价  Environmental Quality Evaluation | 2 | **√** |  |
| 59 | 0100028 | 植物营养研究法  Methodology in Plant Nutrition Research | 2 | **√** |  |
| 60 | 0100029 | 作物施肥理论与实践  Theory and Practice of Crop Fertilization | 2 | **√** |  |
| 61 | 0100030 | 生态工程学  Ecological Engineering | 2 | **√** |  |
| 62 | 0100031 | 节水农业理论与技术  Theory and Technology of Water-Saving Agriculture | 2 | **√** |  |
|  | 63 | 0100032 | 资源环境信息系统  Information System of Resources and Environment | 2 | **√** |  |
| 64 | 0600051 | 地理信息系统  Geographic Information System | 2 | **√** |  |
| 65 | 0600051A | 地理信息系统实验  Experiment in Geographic Information System | 2 | **√** |  |

**表5：农业资源与环境专业集中实践课程归属**

| **实践性质** | **序号** | **课程（组）**  **编号** | **课程名称** | **学分** | **本院** | **外院** |
| --- | --- | --- | --- | --- | --- | --- |
| 必 修 | 66 | 0000095 | 思想道德与法治实践  Ideological Morality and Legal Practice | 1 |  | 马院 |
| 67 | 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 |  |
| 68 | 0000023 | 军事训练  Military Practice | 2 |  | 学工部 |
| 69 | 00000D3 | 信息技术应用基础实践  Application and Practice of Information Technology | 1 |  | 电信院 |
| 70 | 00000B1 | VB程序设计实践  VB Programming Practice | 1 |  |
| 71 | 0000012D | 物理实验（水利土木类）  Physics Experiments | 1.5 |  | 基础部 |
| 72 | 06000512A | 基础微生物学实验  Experiment in Fundamental Microbiology | 1 | **√** |  |
| 73 | 06000513A | 基础生物化学实验  Experiment in Fundamental Biochemistry | 2 | **√** |  |
| 74 | 0100008A | 植物学实验  Experiment in Botany | 1 | **√** |  |
| 75 | 0100012A | 植物生理学实验  Experiment in Plant Physiology | 1.5 | **√** |  |
| 76 | 0100017A | 土壤学与土壤资源调查  Soil Science & Soil Resource Survey | 2 | **√** |  |
| 77 | 0100017B | 资源环境分析系列实验Ⅱ  （植物营养学）※  Experiment in Resource and Environmental Analysis II  （Plant Nutrition ） | 2 | **√** |  |
| 78 | 0100017C | 资源环境分析系列实验III  （资源环境分析）  Experiment in Resource and Environmental Analysis III （Resource and Environmental Analysis） | 2 | **√** |  |
| 79 | 0100010A | 地质学基础实习  Practice in Basic Geology | 1 |  | 土木院 |
| 80 | 0600085 | 土壤、地质与生态学综合实习※  Integrated Practice in Soil, Geology and Ecology | 1 | **√** |  |
| 81 | 2106202 | 水资源与水环境管理实习  Practice in Management of Water Resource and Water Environment | 1 | **√** |  |
| 82 | 0100015A | 植物营养学实习  Practice in Plant Nutrition | 1 | **√** |  |
| 83 | 0600084A | 生物统计与田间试验实习  Practice in Biostatistics and Field Experiment | 1 | **√** |  |
| 84 | 0600501B | 专业综合能力训练※  Comprehensive Specialized Skills Training | 1 | **√** |  |
| 85 | 0600086 | 科研基础训练  Basic Scientific Research Training | 1 | **√** |  |
| 86 | 0600502 | 毕业设计（论文）  Undergraduate Paper | 14 | **√** |  |