**电气与计算机工程学院**

**2019级电子信息科学与技术专业本科人才培养方案**

**一、专业介绍**

**（一）专业名称（中英文）： 电子信息科学与技术（Electronic Information Science and Technology）**

人才培养需求及定位：本专业紧密结合国家建设需要对电子专业人才方面的需求，培养德、智、体全面发展,适应21世纪电子信息产业科技与社会经济发展需要，知识、能力、素质综合协调发展，理论联系实际、基础扎实、动手能力强，掌握电子信息系统的基础理论与分析设计方法，能在电子信息工程、电信、计算机网络通信等相关企事业单位从事电子产品与项目设计开发，技术改造，电子与通信设备运行、维护和管理等方面的工作，具有市场竞争力和一定创新和实践能力的应用型高级技术人才。

电子信息科学与技术主要涵盖物理电子学、电路与系统、电子电路设计以及信息处理，研究如何使用电子元器件解决简单的工程应用问题，包括了电路板的设计、集成芯片的使用、微处理器的应用以及电子设计开发软件的使用。

**（二）专业代码 ：080714T**

**（三）学制：学分制3至7年**

**二、培养目标和毕业要求**

**（一）培养目标**

培养目标定位在学生毕业后5年应该能达到的目标。电子信息科学与技术专业培养的学生应具备良好的数学、电子信息科学与技术学科基础及专业知识和基本实践技能；具有一定的跨学科发展的技术储备；具备独立完成课程实验、团队合作和沟通协调的能力，以能适应电子信息技术发展及就业需求；具备一定的电子电路分析、设计、规划及解决实际工程问题，以及管理和创新的能力；具备持续学习的能力；具备良好的职业道德、人文素养和社会责任意识。

**（二）毕业要求**

通过四年系统的学习和训练，学生应达到以下要求，即专业核心能力：

（1）运用数学、基础科学及电子信息科学与技术基础知识能力；

（2）独立完成电子信息科学与技术相关实验，以及分析与解释数据的能力；

（3）具备电子信息科学与技术相关领域所需基本技术、技巧及使用软硬件工具的能力；

（4）具备基本的电子信息系统分析、设计、制作、调试及检测的实践能力；

（5）项目管理、有效沟通、领域整合与团队合作的能力；

（6）具发掘、分析及解决复杂性电子信息工程问题的能力；

（7）了解电子信息技术的发展动态，具备持续学习的能力；

（8）具备良好的职业道德、人文素养和社会责任意识。

**三、主修专业毕业条件和学位授予**

**毕业学分结构表**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **毕业总学分** | **公共必修课** | **通识及成长教育课** | | **专业课** | | |
| **通识选修课** | **成长教育必修课** | **专业必修课** | | **多元化选修课** |
| **数学与科学基础课** | **专业核心课** |
| 156 | 40 | 6 | 9 | 33 | 45 | 23 |

备注：该学分结构表显示了本专业学生毕业的最低修读总学分要求和各类课程下的最低修读学分组成，专业必修课与多元化选修课各模块按照附表3的说明设置，其中专业必修课共计78学分，多元化专业选修课23学分。**数学与科学基础课包括数学、科学基础、和学科基础模块，专业核心课包括国标中对学生能力培养的相关特色课程、重要课程，多元化选修课体现电气学院学科交叉人才培养。**

**（一）毕业条件**

学生申请以电子信息科学与技术专业毕业，须符合以下全部条件后，才准予毕业，并发给毕业证书：

1.在学院允许的学习年限内，即3~7年。

2.取得电子信息科学与技术专业规定的最低毕业总学分156学分，其中：

公共必修课40学分；公共选修课6学分；数学和科学基础课33学分；专业核心课45学分；多元化选修课23学分；成长必修课9学分。

**（二）获得学位**

普通全日制本科生在取得毕业资格的前提下，按现行的绩点制，其必修课、专业选修课的平均学分绩点达到2.0及以上者，可授予理学学士或者工学学位。

**四、专业课程**

自然与科学基础课：高等数学、线性代数、复变函数与积分变换、概率论与数理统计、大学物理、大学物理实验、高级语言程序设计、电路基础、计算机应用基础。

专业课分为专业必修课与多元化选修课，其中专业必修课分为自然与科学基础课与专业核心课，学科基础课包括了数学与自然科学课程以及基础必修课程，专业核心课为专业的核心内容，涵盖了电子信息技术导论、模拟电子技术、电路与模拟电子实验、数字电路与逻辑设计、数字电路与逻辑设计实验、信号与系统、数字信号处理、通信原理、高频电子线路、电子工艺、微机原理与接口、传感器原理等课程。

多元选修课程：Matlab语言初步、面向对象程序设计、工程制图与CAD、计算机视觉、单片机原理及应用、嵌入式系统及应用、数据库系统及应用、数据结构、计算机网络、虚拟仪器技术、电气与控制系统设计等。

**五、公共教育课程计划进程表**

**请详见附表一。**

**六、通识与成长教育课程计划进程表**

**请详见附表二。**

**七、专业核心课程计划进程表**

**请详见附表三。**

**八、专业各学期学分分配表**

**请详见附表四。**

**九、理论、实践教学学时占比一览表**

**请详见附表五。**

**十、三实课程教学环节一览表**

**请详见附表六。**

**十一、辅修课程、辅修专业、辅修专业学位课程计划进程表**

**请详见附表七。**

**（一）辅修课程**

辅修课程是指修满电子信息科学与技术专业辅修教学计划规定的30学分，其中必修课14学分，选修课16学分，可以取得电子信息科学与技术专业《辅修证明书》。

电子信息科学与技术专业辅修课程人才培养方案详见分表一。

**（二）辅修专业**

辅修专业是指修满电子信息科学与技术业辅修教学计划规定的50学分，其中必修课32学分，选修课18学分，可以取得电子信息科学与技术专业的辅修毕业资格。

电子信息科学与技术专业辅修专业人才培养方案详见分表二。

**（三）辅修专业学位**

辅修专业学位规定，学生原主修专业与计划进行辅修专业学位的专业不能属于同一学科门类。在此前提下，非本学科门类专业学生修满本专业辅修专业学位教学计划中规定的60学分，其中必修课38学分，选修课22学分，且符合两个专业要求的学位授予条件，在取得主修专业学士学位的同时，可同时取得理学学士或者工学学位。

电子信息科学与技术专业辅修专业学位人才培养方案详见分表三。

附表一

**公共教育课程计划进程表**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **课程性质** | | **课程中文名称** | **课程英文名称** | **课程学时、学分及分配** | | | | **各学年、学期每周课内学时** | | | | | | | |
| **学分** | **总学时** | **讲授学时** | **实践学时** | **1学年** | | **2学年** | | **3学年** | | **4学年** | |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| 公共必修课 |  | 大学体育 | Physical Education | 4 | 144 | 2 | 142 | 2 | 2 | 2 | 2 |  |  |  |  |
| 大学英语 | College English | 16 | 324 | 288 | 36 | 4 | 4 | 4 | 4 |  |  |  |  |
| 思想道德修养与法律基础 | Ideological and Moral Cultivation and Legal Basis | 3 | 54 | 54 | 0 |  | 3 |  |  |  |  |  |  |
| 中国近现代史纲要 | Outline of Modern History of China | 3 | 54 | 54 | 0 |  |  | 3 |  |  |  |  |  |
| 毛泽东思想和中国特色社会主义理论体系概论 | Mao Zedong Thought and Theoretical System of Socialism with Chinese Characteristics | 3 | 54 | 54 | 0 |  |  |  | 4 |  |  |  |  |
| 毛泽东思想和中国特色社会主义理论体系概论（实践） | Introduction to Mao zedong thought and Chinese characteristic socialism theory system (practice) | 2 | 48 | 0 | 48 |  |  |  | 3 |  |  |  |  |
| 马克思主义基本原理概论 | Introduction to the Basic Principle of Marxism | 3 | 54 | 54 | 0 |  |  |  |  | 3 |  |  |  |
| 形势与政策 | Situation and Policy | 2 | 36 | 36 | 0 |  |  |  |  |  | 4（10-18周） |  |  |
| 人文通识模块 | Humanities Module | 4 | 72 | 72 | 修读要求：学生在每个模块下都修有学分，通识必修课一共修读4个学分；建议在第1-2学期修读完。 | | | | | | | | |
| 自然科学模块 | Natural Module |
| 合计 | | 40 | 840 | 614 | 226 | 10 | 13 | 9 | 13 | 3 | 4 | 0 | 0 |

备注：1、本专业第四学期增设《专业英语（信息技术）》，学生按相关规定和结合自身情况选择修读《综合英语（四级）》、《高级综合英语（六级）》、《跨文化沟通与交流》或者《专业英语（信息技术）》。

2、《思想道德修养与法律基础》授课内容原为思想道德修养基本理论、马克思主义法学基本理论、中国特色社会主义法律基本理论等内容，现增加职业道德修养、礼仪素养、行业相关法律法规知识相关内容；

附表二

**通识及成长教育课程计划进程表**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **课程性质** | **开课院系** | **课程中文名称** | | | **课程英文名称** | **课程学时、学分及分配** | | | | | | | | **各学年、学期每周课内学时** | | | | | | | | | | | | | |
| **学分** | | **总学时** | | | **讲授学时** | | **实践学时** | **1学年** | | | | **2学年** | | | **3学年** | | | | **4学年** | | |
| **1** | | **2** | | **3** | | **4** | **5** | | | **6** | **7** | | **8** |
| **公 共 选 修 课** | 外国语学院（18门） | 法语语言与文化 | | | French language and culture | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 西方艺术史 | | | Western Art History | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 韩语语言与文化 | | | Korean Language and Culture | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | | 2 |  | |  |
| 中国古典诗歌欣赏与写作 | | | Appreciation and Writing of Classical Chinese Poetry | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | |  | 2 | |  |
| 日本语言与文化 | | | Japanese Language and Culture | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 思维导图设计与制作 | | | Mind-map Design and Drawing | 1 | | 18 | | | 9 | | 9 |  | |  | | 1 | |  |  | | |  |  | |  |
| 世界主要旅游国文化 | | | Culture of the Major Tourist Countries | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 日本文学与电影赏析 | | | Appreciation of Japanese Literature and Movies | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | | 2 |  | |  |
| 旅游法语 | | | tourism french | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 法国文学作品选读 | | | french literature | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 法语电影鉴赏 | | | french film | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | | 2 |  | |  |
| 即兴演讲 | | | Improvisational Speech | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  |  | | |  | 2 | |  |
| 东南亚文化研究 | | | National Social Culture of South-East Asia | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  |  | | |  | 2 | |  |
| 中华文化与传播 | | | Chinese Cultural and Its Promotion | 2 | | 36 | | | 18 | | 18 | 3 | |  | |  | |  |  | | |  |  | |  |
| 儿童文学—从《伊索寓言》到《哈利波特》 | | | Children's Literature ：FromAesop's Fables to Harry Potter | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 博雅人文阅读 | | | Boya Humanities Reading | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 中外影视文化 | | | Chinese and foreign film and television culture | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | |  | 2 | |  |
| 东亚（中日韩）文化比较 | | | Comparison of East Asian culture | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | | 2 |  | |  |
| 艺术设计与创意产业系（13门） | 创意思维训练 | | | Creative thinking training | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 图形语言与平面设计赏析 | | | Appreciation of Graphic Language and Graphic Design | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 现代礼仪 | | | Modern Etiquette | 2 | | 36 | | | 36 | | 0 | 3 | |  | |  | |  |  | | |  |  | |  |
| 设计美学 | | | Design aesthetics | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 军用品设计与赏析 | | | Design and Appreciation of Military Supplies | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 奥斯卡百年经典电影赏析 | | | Appreciation of Academy Awards Centennial Classic Films | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 纪录片评析 | | | Comments on Documentary Films | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 漫画赏析 | | | Cartoons appreciation | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 经典动画赏析 | | | Appreciation of Classical Animation | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 经典名画赏析 | | | Appreciation of Classical Paintings | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 摄影经典作品赏析 | | | Appreciation of Classical Photographic Works | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 网红短视频发展赏析 | | | Appreciation of the Development of Netred Short Video | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 非物质文化遗产赏析 | | | Appreciation of intangible cultural heritage | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 音乐系（8门） | 音乐欣赏 | | | Music appreciation | 2 | | 36 | | | 18 | | 18 |  | | 2 | |  | |  |  | | |  |  | |  |
| 艺术概论 | | | Art introduction | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 聆听音乐 | | | Listening To Music | 2 | | 36 | | | 6 | | 30 |  | |  | |  | | 2 |  | | |  |  | |  |
| 基本乐理 | | | Music Theory | 2 | | 36 | | | 14 | | 22 |  | |  | |  | |  | 2 | | |  |  | |  |
| 即兴乐舞 | | | Improvisational Dance and Music | 1 | | 18 | | | 2 | | 16 |  | |  | |  | |  |  | | | 1 |  | |  |
| 安格隆（Angklung） | | | Angklung | 1 | | 18 | | | 2 | | 16 |  | |  | |  | |  |  | | |  | 2 | |  |
| 舞蹈鉴赏 | | | Dance appreciation | 2 | | 36 | | | 20 | | 16 |  | | 2 | |  | |  |  | | |  |  | |  |
| 演出经纪人 | | | Performing Arts Broker | 2 | | 36 | | | 20 | | 16 |  | |  | |  | |  |  | | |  | 2 | |  |
| 大英中心（9门） | 跨文化沟通与交流 | | | Intercultural communication and communication | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 英语国家社会与文化 | | | Society and culture in English speaking countries | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | | 2 |  | |  |
| 英美文学赏析 | | | English and American Literature Appreciation | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | |  | 2 | |  |
| 商务英语 | | | Business English | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 英语演讲 | | | English speech | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | | 2 |  | |  |
| 高级综合英语（考研英语） | | | Advanced English （NETEM） | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | |  | 2 | |  |
| 雅思与英国语言教育 | | | IELTS and English Language Education of the U.K | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | |  | 2 | |  |
| 托福与美国语言教育 | | | TOEFL and American Language Education | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 求职英语 | | | Cambridge English for Job-hunting | 1 | | 18 | | | 18 | | 0 |  | |  | |  | |  |  | | |  | 2 | |  |
| 综合素养学部（6门） | 中国外交与世界 | | | Chinese Diplomacy and the World | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 文化传承与文明视野 | | | Culture Heritage and the View of Civilization | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 国史与国情 | | | History and National Conditions of China | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 经典著作阅读与赏析 | | | The Appreciation of Classical Works | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 哲学思辨与科学方法 | | | Philosophical Thoughts and Research Methods | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 中国当代社会与文化探究 | | | The Study of Contemporary Chinese Society and Culture | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | | 2 |  | |  |
| 文学与传媒学院（12门） | 中国文化 | | | Chinese culture | 2 | | 36 | | | 36 | | 0 | 2 | |  | |  | |  |  | | |  |  | |  |
| 欧洲文化艺术 | | | Culture & Arts in Europe | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 现代名作导读 | | | Introduction to modern masterpieces | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 中外文艺电影欣赏 | | | Appreciation of Chinese and foreign literary films | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 经典摄影作品分析 | | | Analysing classical photography | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  | 2 | | |  |  | |  |
| 大学生创意思维与创意素养 | | | College students' creative thinking and creative quality | 2 | | 36 | | | 18 | | 18 |  | |  | | 2 | |  |  | | |  |  | |  |
| 当代表演艺术赏析 | | | Performing Arts in Modern Times | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  | 2 | | |  |  | |  |
| 中国画 | | | Chinese Painting | 2 | | 36 | | | 18 | | 18 |  | | 2 | |  | |  |  | | |  |  | |  |
| 言语交际艺术 | | | Arts of Verbal Communication | 2 | | 36 | | | 18 | | 18 |  | | 2 | |  | |  |  | | |  |  | |  |
| 平台经济与数字驱动创新 | | | Platform Economy and Data-Driven Innovations | 3 | | 54 | | | 36 | | 18 | 3 | |  | |  | |  |  | | |  |  | |  |
| 科技、娱乐与设计 | | | Technology, Entertainment, and Design | 2 | | 36 | | | 30 | | 6 |  | | 2 | |  | |  |  | | |  |  | |  |
| 机器学习与人工智能之API经济 | | | API Econom of Machine Learning and Artificial Intelligence | 3 | | 54 | | | 36 | | 18 |  | |  | | 3 | |  |  | | |  |  | |  |
| 公共管理学系（8门） | 人力资源管理导论 | | | Introduction to Human Resource Management | 3 | | 54 | | | 36 | | 18 | 3 | |  | |  | |  |  | | |  |  | |  |
| 组织行为学 | | | Organizational Behavior | 3 | | 54 | | | 36 | | 18 |  | | 3 | |  | |  |  | | |  |  | |  |
| 文化产业概论 | | | Introduction of Cultural Industry | 3 | | 54 | | | 36 | | 18 |  | |  | | 3 | |  |  | | |  |  | |  |
| 中国传统文化概论 | | | Introduction of Chinese Traditional Culture | 3 | | 54 | | | 36 | | 18 |  | | 3 | |  | |  |  | | |  |  | |  |
| 公共关系学 | | | Public Relations | 3 | | 54 | | | 36 | | 18 |  | |  | | 3 | |  |  | | |  |  | |  |
| 媒介素养 | | | Media Literacy | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 当代中国政治与外交 | | | Politics and Diplomacy of Contemporary China | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 道德情操论 | | | The Theory of Moral Sentiments | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 会计学院（33门） | 趣味会计学：基础与案例 | | | Interesting Accounting： Principles and Cases | 3 | | 54 | | | 36 | | 18 | 3 | |  | |  | |  |  | | |  |  | |  |
| 生活中的会计 | | | Accounting in life | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 读懂财务语言 | | | Understand financial language | 2 | | 36 | | | 18 | | 18 |  | | 2 | |  | |  |  | | |  |  | |  |
| 读懂财务报表 | | | Understand financial statements | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 会计与经济 | | | Accounting and Economics | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 企业经营与财务 | | | Business operations and finance | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 互联网与会计 | | | Internet and Accounting | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 预算管理基础与艺术 | | | Budget Management Foundation and Art | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 企业绩效评价与职工激励 | | | Enterprise Performance Evaluation and Staff Incentives | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 内部控制与风险管理 | | | Internal Control and Risk Management | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 管理会计实务 | | | Management accounting practices | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 成本控制方法与案例 | | | Cost control methods and cases | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 资本市场与企业融资 | | | Capital market and corporate finance | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 投资决策技术与案例 | | | Investment decision technology and cases | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 企业理财攻略 | | | Corporate financial strategy | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 内部审计案例解剖 | | | Internal audit case anatomy | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 经济责任审计案例剖析 | | | Analysis of Economic Responsibility Audit Cases | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 企业绩效管理与案例 | | | Enterprise performance management and cases | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | |  | 2 | |  |
| 全面预算ABC | | | Comprehensive budget ABC | 1 | | 18 | | | 18 | | 0 |  | |  | |  | |  |  | | | 1 |  | |  |
| 生活中的税收 | | | Taxation in life | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 税务筹划方法与技巧 | | | Tax Planning methods and skills | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 税务筹划实务 | | | Tax Planning practices | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 妙趣横生经济法 | | | Interesting economic law | 3 | | 54 | | | 54 | | 0 | 3 | |  | |  | |  |  | | |  |  | |  |
| 案说经济与法 | | | Case study of Economics and Law | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 生活中的投资理财 | | | Investment and financial planning in life | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 公司理财实务 | | | Corporate finance practices | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 证券投资方法与技巧 | | | Securities investment methods and skills | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | | 2 |  | |  |
| 商务沟通技巧与实务 | | | Business communication skills and practices | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  |  | | |  | 2 | |  |
| 财务分析与估值 | | | Financial analysis and valuation | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 公司治理案例分析 | | | Case analysis of corporate governance | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 财务舞弊案例剖析 | | | Financial fraud case analysis | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | | 2 |  | |  |
| 透析风控看企业 | | | Knowing Enterprise through Internal control | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 企业IPO上市案例解读 | | | Interpretation of IPO cases of enterprises | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 商学院（54门） | 新媒体营销 | | | New Media Marketing | 3 | | 54 | | | 27 | | 27 |  | |  | | 3 | |  |  | | |  |  | |  |
| 互联网创业 | | | Internet Entrepreneurship | 3 | | 54 | | | 27 | | 27 |  | | 3 | |  | |  |  | | |  |  | |  |
| 质量管理学 | | | Quality Managament | 3 | | 54 | | | 48 | | 6 | 3 | |  | |  | |  |  | | |  |  | |  |
| 家族企业发展与传承 | | | The Development & Inheritance of the Family Business | 3 | | 54 | | | 48 | | 6 |  | |  | |  | |  |  | | | 3 |  | |  |
| 中国经济专题 | | | China's Economic Theme | 3 | | 54 | | | 54 | | 0 |  | |  | |  | |  | 3 | | |  |  | |  |
| 《论语》通解 | | | General interpretation of the Analects of Confucius | 3 | | 54 | | | 54 | | 0 |  | |  | |  | |  |  | | | 3 |  | |  |
| 战略管理 | | | Strategic Management | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  |  | | |  | 2 | |  |
| 微观经济学 | | | Microeconomics | 2 | | 36 | | | 36 | | 0 | 2 | |  | |  | |  |  | | |  |  | |  |
| 区域经济学 | | | Regional Economics | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 证券投资与理财 | | | Securities Investment and Financial Management | 2 | | 36 | | | 18 | | 18 |  | |  | | 2 | |  |  | | |  |  | |  |
| EXCEL进阶教程 | | | Advanced EXCEL COURSE | 2 | | 36 | | | 18 | | 18 |  | |  | |  | | 2 |  | | |  |  | |  |
| 细读张爱玲 | | | A Close Reading of Zhang Ailing | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  | 2 | | |  |  | |  |
| 人际关系沟通 | | | Interpersonal Communication | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  |  | | | 2 |  | |  |
| 英美电影赏析 | | | British and American Films Appreciation | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  |  | | |  | 2 | |  |
| 演讲与口才 | | | Speech and Eloquence | 2 | | 36 | | | 18 | | 18 |  | | 2 | |  | |  |  | | |  |  | |  |
| 时尚买手 | | | Psychology and Life | 2 | | 36 | | | 18 | | 18 |  | |  | | 2 | |  |  | | |  |  | |  |
| 在线旅游运作与创业 | | | Online Tourism Operations and Entrepreneurship | 2 | | 36 | | | 30 | | 6 |  | |  | |  | |  |  | | | 2 |  | |  |
| 园林艺术 | | | Art of Landscape | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 创业计划书写作 | | | Preparing Effective Business Plans | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 旅游线路设计与营销 | | | Tour Design and Marketing | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 健康与养生旅游 | | | Health and Wellness Tourism | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 主题活动策划与实施 | | | Theme Activities Planning | 2 | | 36 | | | 24 | | 12 |  | |  | |  | |  |  | | | 2 |  | |  |
| 多元思维训练 | | | Multiple Thinking Training | 2 | | 36 | | | 24 | | 12 |  | |  | |  | | 2 |  | | |  |  | |  |
| 公司法与公司股权结构设计 | | | Law of Corporation | 3 | | 54 | | | 54 | | 0 |  | |  | | 3 | |  |  | | |  |  | |  |
| 民事诉讼法 | | | Law of Civil Procedure | 3 | | 54 | | | 54 | | 0 |  | |  | |  | | 3 |  | | |  |  | |  |
| 跨国公司跨文化管理 | | | Interculture Management | 3 | | 54 | | | 36 | | 18 |  | |  | |  | |  |  | | |  | 3 | |  |
| 个人与家庭理财 | | | Personal and Family Financial Management | 3 | | 54 | | | 54 | | 0 |  | |  | |  | |  |  | | |  | 3 | |  |
| Photoshop | | | Photoshop | 2 | | 36 | | | 18 | | 18 |  | | 2 | |  | |  |  | | |  |  | |  |
| Python程序设计 | | | Python Programming | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  | 2 | | |  |  | |  |
| 《道德经》导读 | | | Introduction to the Tao Te Jing | 1 | | 18 | | | 18 | | 0 |  | |  | |  | | 1 |  | | |  |  | |  |
| 日语入门 | | | Introduction to Japanese | 2 | | 36 | | | 18 | | 18 |  | |  | | 2 | |  |  | | |  |  | |  |
| 国际贸易案例精选——以欺诈与风险防范为主线 | | | Selection of International Trade Cases | 3 | | 54 | | | 36 | | 18 |  | | 3 | |  | |  |  | | |  |  | |  |
| 国际奢侈品管理 | | | International Luxury Management | 3 | | 54 | | | 36 | | 18 |  | |  | |  | |  | 3 | | |  |  | |  |
| 品牌策划 | | | Brand Planning | 3 | | 54 | | | 36 | | 18 |  | |  | | 3 | |  |  | | |  |  | |  |
| 爱情经济学 | | | Economics of Love | 3 | | 54 | | | 36 | | 18 |  | |  | | 3 | |  |  | | |  |  | |  |
| 婚姻家庭法 | | | A Law of Marriage and Family | 2 | | 36 | | | 18 | | 18 |  | |  | |  | | 2 |  | | |  |  | |  |
| 商品包装与广告设计 | | | Commodity Packaging and Advertising Design | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  | 2 | | |  |  | |  |
| 时尚与奢侈品企业管理 | | | Managing Fashion and Luxury Companies | 2 | | 36 | | | 18 | | 18 |  | | 2 | |  | |  |  | | |  |  | |  |
| 股市淘金——散户策略与操作 | | | Gold Rush in Stock Market-Individual Investor Strategy and Operation | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  |  | | | 2 |  | |  |
| 简单投资 | | | Easy Financial Planning | 3 | | 54 | | | 36 | | 18 |  | |  | | 3 | |  |  | | |  |  | |  |
| 广告策划与欣赏 | | | Advertising Planning | 2 | | 36 | | | 30 | | 6 |  | |  | |  | | 2 |  | | |  |  | |  |
| 酒水概论与酒文化 | | | Wine Technology and Culture | 2 | | 36 | | | 24 | | 12 |  | |  | |  | |  |  | | | 2 |  | |  |
| 市场环境分析 | | | Market Circumstances Analysis | 3 | | 54 | | | 54 | | 0 |  | |  | |  | |  | 3 | | |  |  | |  |
| 消费心理与行为 | | | Consumer Psychology and Bebavior | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 新事业战略管理 | | | New Business Strategy Management | 2 | | 36 | | | 36 | | 0 |  | |  | |  | | 2 |  | | |  |  | |  |
| 心理学与生活 | | | Sociology and Life | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 大学数学 | | | College Mathematics | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 沟通管理 | | | Communication Management | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  |  | | | 2 |  | |  |
| 劳动合同管理 | | | Labor Contract Management | 2 | | 36 | | | 18 | | 18 |  | |  | |  | |  | 2 | | |  |  | |  |
| 管理案例分析 | | | Management Case Analysis | 2 | | 36 | | | 6 | | 30 |  | |  | |  | | 2 |  | | |  |  | |  |
| 旅游目的地与文化 | | | Tourism Destination and Culture | 2 | | 36 | | | 27 | | 9 |  | |  | | 2 | |  |  | | |  |  | |  |
| 初级会计职称考试之实务 | | | Accounting of Accounting Junior Professional Examination | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 初级会计职称考试之经济法 | | | Economic Law of Accounting Junior Professional Examination | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 区域与空间贸易 | | | Regional and Space Trade | 3 | | 54 | | | 54 | | 0 |  | |  | |  | | 3 |  | | |  |  | |  |
| 健康与护理系（5门） | 女性生理与保健 | | | Female physiology and health care | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
| 常用急救技术-心肺复苏 | | | Common first aid technique - cardiopulmonary resuscitation (CPR) | 1 | | 18 | | | 9 | | 9 |  | |  | |  | |  |  | | | 1 |  | |  |
| 常用药物知识 | | | Common drug knowledge | 1 | | 18 | | | 18 | | 0 |  | |  | |  | |  |  | | |  | 1 | |  |
| 营养与健康 | | | Nutrition and health | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 大学生卫生保健 | | | Health care for College Students | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 云康医学与健康管理学院（4门） | 药妆与药品 | | | Cosmeceuticals and Drugs | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 化学与生活 | | | Chemistry and Life | 2 | | 36 | | | 36 | | 0 |  | |  | | 2 | |  |  | | |  |  | |  |
| 营养学 | | | nutriology | 2 | | 36 | | | 36 | | 0 |  | | 2 | |  | |  |  | | |  |  | |  |
| 人体健康与疾病 | | | The Human Body in Health and Disease | 2 | | 36 | | | 36 | | 0 |  | |  | |  | |  | 2 | | |  |  | |  |
|  | 合计 | | | | | | 358 | | 6444 | 5413 | | 1031 | | | 25 | | 64 | | 91 | 47 | | 61 | | 39 | 35 | | 0 |
| 成长必修课 | 综合素养部 | | 大学生心理健康教育 | Mental Health Education | | | 2 | | 36 | 36 | | 0 | | | 2 | |  | |  |  | |  |  | |  |  | |
| 学工部 | | 军事理论 | Military Theory | | | 2 | | 36 | 36 | | 0 | | | 2 | |  | |  |  | |  |  | |  |  | |
| 政商研究院 | | 创业基础（理论） | Foundation of Establishing a business（Theory） | | | 1 | | 18 | 18 | | 0 | | |  | |  | |  |  | | 2(1-9周) |  | |  |  | |
| 电气与计算机工程学院 | | 创业基础（实践） | Foundation of Establishing a business | | | 2 | | 48 | 0 | | 48 | | |  | |  | |  |  | |  | 12(1-4周) | |  |  | |
| 就业指导（理论+实践） | Employment Guidance（Theory） | | | 2 | | 36 | 18 | | 18 | | |  | |  | |  |  | |  | 2 | | 6(1-3周) |  | |
|  | | 合计 | | | | 9 | | 174 | 108 | | 66 | | | 4 | | 0 | | 0 | 0 | | 2 | 14 | | 6 | 0 | |

说明：公共选修课从指定的模块中至少选修6学分，成长教育必修课共9学分。

附表三

**专业课程计划进程表**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **课程性质** | | **课程中文名称** | **课程英文名称** | **课程学时、学分及分配** | | | | **各学年、学期每周课内学时** | | | | | | | | | |
| **学分** | **总学时** | **讲授学时** | **实践学时** | **1学年** | | | **2学年** | | **3学年** | | **4学年** | | |
| **1** | **2** | **3** | | **4** | **5** | **6** | **7** | **8** |
| 专业必修课 | 数学与科学基础 | 高等数学(1) | Advanced Mathematics (1) | 4 | 72 | 72 | 0 | 5 |  |  | |  |  |  |  |  |
| 高等数学(2) | Advanced Mathematics (2) | 4 | 72 | 72 | 0 |  | 4 |  | |  |  |  |  |  |
| 线性代数 | Linear Algebra | 3 | 54 | 54 | 0 | 4 |  |  | |  |  |  |  |  |
| 高级语言程序设计(1) | Advance Language Programming (1) | 4 | 72 | 36 | 36 | 3+3 |  |  | |  |  |  |  |  |
| 高级语言程序设计(2) | Advance Language Programming (2) | 3 | 54 | 27 | 27 |  | 3 |  | |  |  |  |  |  |
| 计算机基础 | Computer Foundation | 2 | 36 | 18 | 18 |  | 3 |  | |  |  |  |  |  |
| 大学物理(1) | College Physics (1) | 3 | 54 | 54 | 0 |  | 3 |  | |  |  |  |  |  |
| 大学物理(2) | College Physics (2) | 2 | 36 | 36 | 0 |  |  | 2 | |  |  |  |  |  |
| 大学物理实验 | College Physics Experiments | 1 | 24 | 0 | 24 |  |  | 3 | |  |  |  |  |  |
| 复变函数与积分变换 | Complex Function and Integral transformation | 2 | 36 | 36 | 0 |  |  | 2 | |  |  |  |  |  |
| 工程电磁场 | Engineering Electromagnetic Field | 2 | 36 | 36 | 0 |  |  |  | | 2 |  |  |  |  |
| 概率论与数理统计 | Probability Theory and Mathematical Statistics | 3 | 54 | 54 | 0 |  |  |  | | 3 |  |  |  |  |
| 合计 | | 33 | 600 | 495 | 105 | 15 | 13 | 7 | | 5 | 0 | 0 | 0 | 0 |
| 专业核心 | 电子信息技术导论 | Introduction of Electronic and Communication | 1 | 18 | 18 | 0 | 3 |  |  | |  |  |  |  |  |
| 电路基础 | Fundamental of Circuit | 4 | 72 | 54 | 18 |  | 4 |  | |  |  |  |  |  |
| 电子工艺设计与实训 | Electronic Process Design and Training | 2 | 48 | 0 | 48 |  |  | 3 | |  |  |  |  |  |
| 模拟电子技术 | Analog Electronics Technology | 3 | 54 | 54 | 0 |  |  | 3 | |  |  |  |  |  |
| 电路与模拟电子技术实践 | Circuit and Analog Electronic Technology Practice | 2 | 48 | 0 | 48 |  |  | 3 | |  |  |  |  |  |
| 数字电路与逻辑设计 | Digital Circuit and Logic Design | 3 | 54 | 54 | 0 |  |  | 3 | |  |  |  |  |  |
| 信号与系统 | Signals and Systems | 3 | 54 | 36 | 18 |  |  | 3 | |  |  |  |  |  |
| 微机原理与接口技术 | Computer Principle and Interface Technology | 3 | 54 | 36 | 18 |  |  |  | | 3 |  |  |  |  |
| 数字电路与逻辑设计实验 | Digital Circuit and Logic Design Experiments | 1 | 24 | 0 | 24 |  |  |  | | 3 |  |  |  |  |
| 电子技术课程设计 | Electronic Technology Curriculum Design | 2 | 36 | 12 | 24 |  |  |  | | 3 |  |  |  |  |
| 高频电子线路 | High Frequency Electronic Circuit | 3 | 54 | 54 | 0 |  |  |  | | 3 |  |  |  |  |
| 数字信号处理 | Digital Signal Processing | 3 | 54 | 36 | 18 |  |  |  | |  | 3 |  |  |  |
| 传感器原理及应用 | Sensors Principle and Application | 2 | 36 | 36 | 0 |  |  |  | |  | 3 |  |  |  |
| 通信原理 | Principle of Communication Systems | 3 | 54 | 54 | 0 |  |  |  | |  | 3 |  |  |  |
| 通信原理与系统实验 | Communication Principle and System Experiments | 1 | 24 | 0 | 24 |  |  |  | |  | 3 |  |  |  |
| 电子综合设计与实训 | Electronic Integrated Design and Training | 2 | 48 | 0 | 48 |  |  |  | |  |  | 3 |  |  |
| 毕业实习 | Practical Training | 3 |  |  |  |  |  |  | |  |  |  |  |  |
| 毕业论文 | Graduation Project | 4 |  |  |  |  |  |  | |  |  |  |  |  |
| 合计 | | 45 | 732 | 444 | 288 | 3 | 4 | 15 | | 12 | 12 | 3 | 0 | 0 |
| 多元化选修课 | | MATLAB语言初步 | MATLAB Preliminary language | 1 | 24 | 0 | 24 | 3 |  |  | |  |  |  |  |  |
| 大学人文基础 | Foundation of university humanity | 2 | 36 | 36 | 0 |  | 2 |  | |  |  |  |  |  |
| 工程制图与CAD | Engineering Drawing and CAD | 2 | 36 | 12 | 24 |  |  |  | | 3 |  |  |  |  |
| 自动控制原理 | Principle of Automatic Control | 3 | 54 | 36 | 18 |  |  |  | | 3 |  |  |  |  |
| 计算机视觉及应用 | Computer Vision and Application | 2 | 36 | 12 | 24 |  |  |  | | 2 |  |  |  |  |
| 管理学基础 | Foundations of Management | 2 | 36 | 36 | 0 |  |  |  | | 2 |  |  |  |  |
| 单片机原理及应用 | Microchip Principles and Application | 3 | 54 | 18 | 36 |  |  |  | |  | 3 |  |  |  |
| 嵌入式系统与应用 | Embedded System and Application | 3 | 54 | 30 | 24 |  |  |  | |  | 3 |  |  |  |
| 电气与控制系统设计 | Electric and Control Systems Design | 3 | 54 | 36 | 18 |  |  |  | |  | 3 |  |  |  |
| 数据库系统与应用 | [Database](javascript:void(0);) [System](javascript:void(0);) [and](javascript:void(0);) [Applications](javascript:void(0);) | 3 | 54 | 30 | 24 |  |  |  | |  | 3 |  |  |  |
| 计算机网络 | Computer Network | 3 | 54 | 36 | 18 |  |  |  | |  | 3 |  |  |  |
| 虚拟仪器技术 | Virtual Instrument Technology | 2 | 36 | 18 | 18 |  |  |  | |  | 4 |  |  |  |
| CMOS集成电路设计 | CMOS Integrated Circuit Design | 3 | 54 | 36 | 18 |  |  |  | |  | 3 |  |  |  |
| 数字图像处理 | Digital Image Processing | 2 | 36 | 18 | 18 |  |  |  | |  | 3 |  |  |  |
| 创新创业项目及学科竞赛 | Innovative Entrepreneurship Programs and Disciplines Competition | 1 | 24 | 0 | 24 |  |  |  | |  | 1 |  |  |  |
| 网站设计 | Website Design | 2 | 36 | 12 | 24 |  |  |  | |  |  | 3 |  |  |
| 数据结构 | Data Structure | 3 | 54 | 30 | 24 |  |  |  | |  |  | 3 |  |  |
| 软件配置与质量管理 | The Software Configuration and Quality Management | 2 | 36 | 18 | 18 |  |  |  | |  |  | 4 |  |  |
| 移动互联网技术 | Mobile Internet Technology | 3 | 54 | 30 | 24 |  |  |  | |  |  | 3 |  |  |
| 软件设计与实训 | Software Design and Training | 2 | 48 | 0 | 48 |  |  |  | |  |  | 3 |  |  |
| 多媒体信息处理 | Multimedia Information Processing | 2 | 36 | 18 | 18 |  |  |  | |  |  | 3 |  |  |
| 企业家论坛 | Business Forum | 1 | 24 | 0 | 24 |  |  |  | |  |  |  | 6(1-4周) |  |
| 企业项目实践 | Enterprise Project Practice | 1 | 24 | 0 | 24 |  |  |  | |  |  |  | 6(1-4周) |  |
| 合计 | | 51 | 954 | 462 | 492 | 3 | 2 | 0 | | 10 | 26 | 19 | 12 | 0 |

说明：

（1）专业必修课程总学分为78学分，其中，数学与科学基础课程包括：数学类、科学基础、学科基础课程，共33学分；专业核心课程共45学分。

（2）专业选修课共需要修读23学分，其中《大学人文基础》、《管理学基础》为指定选修课，必须修读；《创新创业项目及学科竞赛》为学生参加学科竞赛、大学生创新创业训练项目、教师科研项目等认定学分；《企业项目实践》为企业在校内举办的课程实训。

（3）实习为期3周，在第7学期开展，其中1周集中，其余2周学生自主安排。毕业设计为期12周，在第7学期开展。

附表四

**专业各学期学分分配表**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **课程性质** | | **总学分** | **总学时** | **学分与学期分配** | | | | | | | |
| **一** | **二** | **三** | **四** | **五** | **六** | **七** | **八** |
| 公共教育课 | 必修课 | 40 | 840 | 7 | 10 | 8 | 10 | 3 | 2 | 0 | 0 |
| 通识与成长教育课 | 通识选修课 | 358 | 6444 | 18 | 61 | 86 | 47 | 59 | 37 | 34 | 0 |
| 成长教育必修 | 9 | 174 | 4 | 0 | 0 | 0 | 1 | 3 | 1 | 0 |
| 专业必修 | 数学与科学基础 | 33 | 600 | 11 | 12 | 5 | 5 | 0 | 0 | 0 | 0 |
| 专业核心课 | 45 | 732 | 1 | 4 | 13 | 9 | 9 | 2 | 0 | 0 |
| 多元化选修课 | 专业选修 | 51 | 954 | 1 | 2 | 0 | 9 | 23 | 14 | 2 | 0 |
| 总计 | | 536 | 9744 | 42 | 89 | 112 | 80 | 95 | 58 | 37 | 0 |
| **特别说明** | | 电子信息科学与技术专业实习学期为第（7）学期，除实习学期和第八学期外，第一学期修读的各类课程总学分不高于24学分，其他学期不高于28学分。 | | | | | | | | | |

附表五

**理论、实践教学学时占比一览表**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **课程性质** | | **学时数** | | **占总学时比例** |
| **理论学时** | **实践学时** |
| 公共教育课 | 公共必修课 | 614 | 226 | 8.25% |
| 合计 | 614 | 226 | 8.25% |
| 通识与成长教育课 | 通识选修课 | 5413 | 1031 | 67.00% |
| 成长教育必修 | 108 | 66 | 1.75% |
| 合计 | 5521 | 1097 | 68.75% |
| 专业必修课 | 数学与科学基础课 | 495 | 105 | 6.04% |
| 专业核心课 | 444 | 288 | 7.36% |
| 合计 | 939 | 393 | 13.40% |
| 多元化选修课 | 专业选修 | 462 | 492 | 9.60% |
| 合计 | 462 | 492 | 9.60% |
| 总计 | | 7536 | 2208 | 100% |

附表六

**三实课程教学环节一览表**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **实践项目名称** | **学期** | **学分** | **总学时** | **内容** | **备注** |
| 体育(一) | 1 | 1 | 34 | 学习所选体育项目专项技能 |  |
| 体育(二) | 2 | 1 | 36 | 学习所选体育项目专项技能 |  |
| 体育(三) | 3 | 1 | 36 | 学习所选体育项目专项技能 |  |
| 体育(四) | 4 | 1 | 36 | 学习所选体育项目专项技能 |  |
| 办公软件 | 1 | 1 | 24 | Office软件应用 |  |
| 高级语言程序设计 | 1 | 1 | 24 | C语言的基本技能及实践 |  |
| MATLAB语言初步 | 1 | 1 | 24 | MATLAB软件的基本技能与实践 |  |
| 大学英语（自主学习） | 1、2 | 1 | 32 | 在教师指导下完成相应的学习和测试任务 |  |
| 大学物理实验 | 2 | 1 | 24 | 大学物理实验 |  |
| 电子工艺设计与实训 | 2 | 2 | 48 | 电子工艺设计与实训 |  |
| 面向对象的程序设计 | 3 | 2 | 48 | 面向对象程序设计Java语言的基本技能及实践 |  |
| 电路与模拟电子技术实践 | 3 | 2 | 48 | 电路基础知识与实践，模拟电子技术课程相关操作和实践 |  |
| 电路实验 | 2 | 1 | 18 | 电路基础知识 |  |
| 毛泽东思想和中国特色社会理论体系概论（实践） | 3-4 | 2 | 48 | 认识国情，接触社会，提升综合素质，促进自我成长 |  |
| 单片机原理及应用 | 5 | 2 | 36 | 单片机原理实践与应用 |  |
| 电子技术课程设计 | 4 | 1 | 24 | 电子电路的制图基本技能与实践 |  |
| 计算机视觉及应用 | 4 | 1 | 24 | 视频信息处理与智能控制 |  |
| 创新创业项目及学科竞赛 | 5 | 1 | 24 | 创新创业项目及学科竞赛 |  |
| 计算机网络及实训 | 5 | 1 | 18 | 计算机网络基本知识与通信原理 |  |
| 嵌入式系统与应用 | 5 | 1 | 24 | 嵌入式系统与应用 |  |
| 电气与控制系统设计 | 5 | 1 | 18 | 电气与控制系统设计实训 |  |
| 通信系统实验 | 5 | 1 | 24 | 通信系统实验 |  |
| 电子综合设计与实训 | 6 | 2 | 48 | 电子综合设计与实训 |  |
| 创业基础（实践） | 6 | 2 | 48 | 进行创新实践训练 |  |
| 多媒体信息处理 | 6 | 1 | 18 | 多媒体信息处理 |  |
| 软件设计与实训 | 6 | 1 | 24 | 软件项目开发与设计实践 |  |
| 就业指导（理论+实践） | 6、7 | 2 | 36 | 进行就业实践训练 |  |
| 企业家论坛 | 7 | 1 | 24 | 企业专家论坛 |  |
| 企业项目实践 | 7 | 1 | 24 | 企业在校内举办的课程实训 |  |
| 毕业实习 | 7-8 | 3 |  | 其中1周集中，其余2周学生自主安排 |  |
| 毕业论文 | 7-8 | 4 |  | 毕业设计及毕业论文 |  |
| 合计 |  | 44 | 894 |  |  |

说明：包括课内实验、单独开设的实验、集中实训与实践。

附表七

**辅修课程、辅修专业、辅修专业学位课程计划进程表**

分表一

**电子信息科学与技术专业辅修课程人才培养方案**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **课程性质** | | **课程中文名称** | **课程英文名称** | **课程学时、学分及分配** | | | | **各学年、学期每周课内学时** | | | | | | | | | | | |
| **学分** | **总学时** | **讲授学时** | **实践学时** | **1学年** | | | **2学年** | | | **3学年** | | | **4学年** | | |
| **1** | **2** | **3** | | **4** | **5** | | **6** | **7** | | **8** |
| 专业必修课 | 数学与科学基础 | 高等数学(1) | Advanced Mathematics (1) | 4 | 72 | 72 | 0 | 5 |  |  | |  |  | |  |  | |  |
| 高等数学(2) | Advanced Mathematics (2) | 4 | 72 | 72 | 0 |  | 4 |  | |  |  | |  |  | |  |
| 线性代数 | Linear Algebra | 3 | 54 | 54 | 0 | 4 |  |  | |  |  | |  |  | |  |
| 高级语言程序设计(1) | Advance Language Programming (1) | 4 | 72 | 36 | 36 | 3+3 |  |  | |  |  | |  |  | |  |
| 高级语言程序设计(2) | Advance Language Programming (2) | 3 | 54 | 27 | 27 |  | 3 |  | |  |  | |  |  | |  |
| 计算机基础 | Computer Foundation | 2 | 36 | 18 | 18 |  | 3 |  | |  |  | |  |  | |  |
| 大学物理(1) | College Physics (1) | 3 | 54 | 54 | 0 |  | 3 |  | |  |  | |  |  | |  |
| 大学物理(2) | College Physics (2) | 2 | 36 | 36 | 0 |  |  | 2 | |  |  | |  |  | |  |
| 大学物理实验 | College Physics Experiments | 1 | 24 | 0 | 24 |  |  | 3 | |  |  | |  |  | |  |
| 复变函数与积分变换 | Complex Function and Integral transformation | 2 | 36 | 36 | 0 |  |  | 2 | |  |  | |  |  | |  |
| 工程电磁场 | Engineering Electromagnetic Field | 2 | 36 | 36 | 0 |  |  |  | | 2 |  | |  |  | |  |
| 概率论与数理统计 | Probability Theory and Mathematical Statistics | 3 | 54 | 54 | 0 |  |  |  | | 3 |  | |  |  | |  |
| 合计 | | 33 | 600 | 495 | 105 | 15 | 13 | 7 | | 5 | 0 | | 0 | 0 | | 0 |
| 专业核心 | 电子信息技术导论 | Introduction of Electronic and Communication | 1 | 18 | 18 | 0 | 3 |  |  | |  |  | |  |  | |  |
| 电路基础 | Fundamental of Circuit | 4 | 72 | 54 | 18 |  | 4 |  | |  |  | |  |  | |  |
| 电子工艺设计与实训 | Electronic Process Design and Training | 2 | 48 | 0 | 48 |  |  | 3 | |  |  | |  |  | |  |
| 模拟电子技术 | Analog Electronics Technology | 3 | 54 | 54 | 0 |  |  | 3 | |  |  | |  |  | |  |
| 电路与模拟电子技术实践 | Circuit and Analog Electronic Technology Practice | 2 | 48 | 0 | 48 |  |  | 3 | |  |  | |  |  | |  |
| 数字电路与逻辑设计 | Digital Circuit and Logic Design | 3 | 54 | 54 | 0 |  |  | 3 | |  |  | |  |  | |  |
| 信号与系统 | Signals and Systems | 3 | 54 | 36 | 18 |  |  | 3 | |  |  | |  |  | |  |
| 微机原理与接口技术 | Computer Principle and Interface Technology | 3 | 54 | 36 | 18 |  |  |  | | 3 |  | |  |  | |  |
| 数字电路与逻辑设计实验 | Digital Circuit and Logic Design Experiments | 1 | 24 | 0 | 24 |  |  |  | | 3 |  | |  |  | |  |
| 电子技术课程设计 | Electronic Technology Curriculum Design | 2 | 36 | 12 | 24 |  |  |  | | 3 |  | |  |  | |  |
| 高频电子线路 | High Frequency Electronic Circuit | 3 | 54 | 54 | 0 |  |  |  | | 3 |  | |  |  | |  |
| 数字信号处理 | Digital Signal Processing | 3 | 54 | 36 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 传感器原理及应用 | Sensors Principle and Application | 2 | 36 | 36 | 0 |  |  |  | |  | 3 | |  |  | |  |
| 通信原理 | Principle of Communication Systems | 3 | 54 | 54 | 0 |  |  |  | |  | 3 | |  |  | |  |
| 通信原理与系统实验 | Communication Principle and System Experiments | 1 | 24 | 0 | 24 |  |  |  | |  | 3 | |  |  | |  |
| 电子综合设计与实训 | Electronic Integrated Design and Training | 2 | 48 | 0 | 48 |  |  |  | |  |  | | 3 |  | |  |
| 毕业实习 | Practical Training | 3 |  |  |  |  |  |  | |  |  | |  |  | |  |
| 毕业论文 | Graduation Project | 4 |  |  |  |  |  |  | |  |  | |  |  | |  |
| 合计 | | 45 | 732 | 444 | 288 | 3 | 4 | 15 | | 12 | 12 | | 3 | 0 | | 0 |
| 多元化选修课 | | MATLAB语言初步 | MATLAB Preliminary language | 1 | 24 | 0 | 24 | 3 |  |  | |  |  | |  |  | |  |
| 大学人文基础 | Foundation of university humanity | 2 | 36 | 36 | 0 |  | 2 |  | |  |  | |  |  | |  |
| 工程制图与CAD | Engineering Drawing and CAD | 2 | 36 | 12 | 24 |  |  |  | | 3 |  | |  |  | |  |
| 自动控制原理 | Principle of Automatic Control | 3 | 54 | 36 | 18 |  |  |  | | 3 |  | |  |  | |  |
| 计算机视觉及应用 | Computer Vision and Application | 2 | 36 | 12 | 24 |  |  |  | | 2 |  | |  |  | |  |
| 管理学基础 | Foundations of Management | 2 | 36 | 36 | 0 |  |  |  | | 2 |  | |  |  | |  |
| 单片机原理及应用 | Microchip Principles and Application | 3 | 54 | 18 | 36 |  |  |  | |  | 3 | |  |  | |  |
| 嵌入式系统与应用 | Embedded System and Application | 3 | 54 | 30 | 24 |  |  |  | |  | 3 | |  |  | |  |
| 电气与控制系统设计 | Electric and Control Systems Design | 3 | 54 | 36 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 数据库系统与应用 | [Database](javascript:void(0);) [System](javascript:void(0);) [and](javascript:void(0);) [Applications](javascript:void(0);) | 3 | 54 | 30 | 24 |  |  |  | |  | 3 | |  |  | |  |
| 计算机网络 | Computer Network | 3 | 54 | 36 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 虚拟仪器技术 | Virtual Instrument Technology | 2 | 36 | 18 | 18 |  |  |  | |  | 4 | |  |  | |  |
| CMOS集成电路设计 | CMOS Integrated Circuit Design | 3 | 54 | 36 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 数字图像处理 | Digital Image Processing | 2 | 36 | 18 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 创新创业项目及学科竞赛 | Innovative Entrepreneurship Programs and Disciplines Competition | 1 | 24 | 0 | 24 |  |  |  | |  | 1 | |  |  | |  |
| 网站设计 | Website Design | 2 | 36 | 12 | 24 |  |  |  | |  |  | | 3 |  | |  |
| 数据结构 | Data Structure | 3 | 54 | 30 | 24 |  |  |  | |  |  | | 3 |  | |  |
| 软件配置与质量管理 | The Software Configuration and Quality Management | 2 | 36 | 18 | 18 |  |  |  | |  |  | | 4 |  | |  |
| 移动互联网技术 | Mobile Internet Technology | 3 | 54 | 30 | 24 |  |  |  | |  |  | | 3 |  | |  |
| 软件设计与实训 | Software Design and Training | 2 | 48 | 0 | 48 |  |  |  | |  |  | | 3 |  | |  |
| 多媒体信息处理 | Multimedia Information Processing | 2 | 36 | 18 | 18 |  |  |  | |  |  | | 3 |  | |  |
| 企业家论坛 | Business Forum | 1 | 24 | 0 | 24 |  |  |  | |  |  | |  | 6(1-4周) | |  |
| 企业项目实践 | Enterprise Project Practice | 1 | 24 | 0 | 24 |  |  |  | |  |  | |  | 6(1-4周) | |  |
| 合计 | | 51 | 954 | 462 | 492 | 3 | 2 | 0 | | 10 | 26 | | 19 | 12 | | 0 |

备注：修课程要求学生至少修满30学分。其中，必修课14学分，选修课要求学生从上表多元化专业选修课中至少选择16学分修读。

分表二

**电子信息科学与技术专业辅修专业人才培养方案**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **课程性质** | | **课程中文名称** | **课程英文名称** | **课程学时、学分及分配** | | | | **各学年、学期每周课内学时** | | | | | | | | | | | |
| **学分** | **总学时** | **讲授学时** | **实践学时** | **1学年** | | | **2学年** | | | **3学年** | | | **4学年** | | |
| **1** | **2** | **3** | | **4** | **5** | | **6** | **7** | | **8** |
| 专业必修课 | 数学与科学基础 | 高等数学(1) | Advanced Mathematics (1) | 4 | 72 | 72 | 0 | 5 |  |  | |  |  | |  |  | |  |
| 高等数学(2) | Advanced Mathematics (2) | 4 | 72 | 72 | 0 |  | 4 |  | |  |  | |  |  | |  |
| 线性代数 | Linear Algebra | 3 | 54 | 54 | 0 | 4 |  |  | |  |  | |  |  | |  |
| 高级语言程序设计(1) | Advance Language Programming (1) | 4 | 72 | 36 | 36 | 3+3 |  |  | |  |  | |  |  | |  |
| 高级语言程序设计(2) | Advance Language Programming (2) | 3 | 54 | 27 | 27 |  | 3 |  | |  |  | |  |  | |  |
| 计算机基础 | Computer Foundation | 2 | 36 | 18 | 18 |  | 3 |  | |  |  | |  |  | |  |
| 大学物理(1) | College Physics (1) | 3 | 54 | 54 | 0 |  | 3 |  | |  |  | |  |  | |  |
| 大学物理(2) | College Physics (2) | 2 | 36 | 36 | 0 |  |  | 2 | |  |  | |  |  | |  |
| 大学物理实验 | College Physics Experiments | 1 | 24 | 0 | 24 |  |  | 3 | |  |  | |  |  | |  |
| 复变函数与积分变换 | Complex Function and Integral transformation | 2 | 36 | 36 | 0 |  |  | 2 | |  |  | |  |  | |  |
| 工程电磁场 | Engineering Electromagnetic Field | 2 | 36 | 36 | 0 |  |  |  | | 2 |  | |  |  | |  |
| 概率论与数理统计 | Probability Theory and Mathematical Statistics | 3 | 54 | 54 | 0 |  |  |  | | 3 |  | |  |  | |  |
| 合计 | | 33 | 600 | 495 | 105 | 15 | 13 | 7 | | 5 | 0 | | 0 | 0 | | 0 |
| 专业核心 | 电子信息技术导论 | Introduction of Electronic and Communication | 1 | 18 | 18 | 0 | 3 |  |  | |  |  | |  |  | |  |
| 电路基础 | Fundamental of Circuit | 4 | 72 | 54 | 18 |  | 4 |  | |  |  | |  |  | |  |
| 电子工艺设计与实训 | Electronic Process Design and Training | 2 | 48 | 0 | 48 |  |  | 3 | |  |  | |  |  | |  |
| 模拟电子技术 | Analog Electronics Technology | 3 | 54 | 54 | 0 |  |  | 3 | |  |  | |  |  | |  |
| 电路与模拟电子技术实践 | Circuit and Analog Electronic Technology Practice | 2 | 48 | 0 | 48 |  |  | 3 | |  |  | |  |  | |  |
| 数字电路与逻辑设计 | Digital Circuit and Logic Design | 3 | 54 | 54 | 0 |  |  | 3 | |  |  | |  |  | |  |
| 信号与系统 | Signals and Systems | 3 | 54 | 36 | 18 |  |  | 3 | |  |  | |  |  | |  |
| 微机原理与接口技术 | Computer Principle and Interface Technology | 3 | 54 | 36 | 18 |  |  |  | | 3 |  | |  |  | |  |
| 数字电路与逻辑设计实验 | Digital Circuit and Logic Design Experiments | 1 | 24 | 0 | 24 |  |  |  | | 3 |  | |  |  | |  |
| 电子技术课程设计 | Electronic Technology Curriculum Design | 2 | 36 | 12 | 24 |  |  |  | | 3 |  | |  |  | |  |
| 高频电子线路 | High Frequency Electronic Circuit | 3 | 54 | 54 | 0 |  |  |  | | 3 |  | |  |  | |  |
| 数字信号处理 | Digital Signal Processing | 3 | 54 | 36 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 传感器原理及应用 | Sensors Principle and Application | 2 | 36 | 36 | 0 |  |  |  | |  | 3 | |  |  | |  |
| 通信原理 | Principle of Communication Systems | 3 | 54 | 54 | 0 |  |  |  | |  | 3 | |  |  | |  |
| 通信原理与系统实验 | Communication Principle and System Experiments | 1 | 24 | 0 | 24 |  |  |  | |  | 3 | |  |  | |  |
| 电子综合设计与实训 | Electronic Integrated Design and Training | 2 | 48 | 0 | 48 |  |  |  | |  |  | | 3 |  | |  |
| 毕业实习 | Practical Training | 3 |  |  |  |  |  |  | |  |  | |  |  | |  |
| 毕业论文 | Graduation Project | 4 |  |  |  |  |  |  | |  |  | |  |  | |  |
| 合计 | | 45 | 732 | 444 | 288 | 3 | 4 | 15 | | 12 | 12 | | 3 | 0 | | 0 |
| 多元化选修课 | | MATLAB语言初步 | MATLAB Preliminary language | 1 | 24 | 0 | 24 | 3 |  |  | |  |  | |  |  | |  |
| 大学人文基础 | Foundation of university humanity | 2 | 36 | 36 | 0 |  | 2 |  | |  |  | |  |  | |  |
| 工程制图与CAD | Engineering Drawing and CAD | 2 | 36 | 12 | 24 |  |  |  | | 3 |  | |  |  | |  |
| 自动控制原理 | Principle of Automatic Control | 3 | 54 | 36 | 18 |  |  |  | | 3 |  | |  |  | |  |
| 计算机视觉及应用 | Computer Vision and Application | 2 | 36 | 12 | 24 |  |  |  | | 2 |  | |  |  | |  |
| 管理学基础 | Foundations of Management | 2 | 36 | 36 | 0 |  |  |  | | 2 |  | |  |  | |  |
| 单片机原理及应用 | Microchip Principles and Application | 3 | 54 | 18 | 36 |  |  |  | |  | 3 | |  |  | |  |
| 嵌入式系统与应用 | Embedded System and Application | 3 | 54 | 30 | 24 |  |  |  | |  | 3 | |  |  | |  |
| 电气与控制系统设计 | Electric and Control Systems Design | 3 | 54 | 36 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 数据库系统与应用 | [Database](javascript:void(0);) [System](javascript:void(0);) [and](javascript:void(0);) [Applications](javascript:void(0);) | 3 | 54 | 30 | 24 |  |  |  | |  | 3 | |  |  | |  |
| 计算机网络 | Computer Network | 3 | 54 | 36 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 虚拟仪器技术 | Virtual Instrument Technology | 2 | 36 | 18 | 18 |  |  |  | |  | 4 | |  |  | |  |
| CMOS集成电路设计 | CMOS Integrated Circuit Design | 3 | 54 | 36 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 数字图像处理 | Digital Image Processing | 2 | 36 | 18 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 创新创业项目及学科竞赛 | Innovative Entrepreneurship Programs and Disciplines Competition | 1 | 24 | 0 | 24 |  |  |  | |  | 1 | |  |  | |  |
| 网站设计 | Website Design | 2 | 36 | 12 | 24 |  |  |  | |  |  | | 3 |  | |  |
| 数据结构 | Data Structure | 3 | 54 | 30 | 24 |  |  |  | |  |  | | 3 |  | |  |
| 软件配置与质量管理 | The Software Configuration and Quality Management | 2 | 36 | 18 | 18 |  |  |  | |  |  | | 4 |  | |  |
| 移动互联网技术 | Mobile Internet Technology | 3 | 54 | 30 | 24 |  |  |  | |  |  | | 3 |  | |  |
| 软件设计与实训 | Software Design and Training | 2 | 48 | 0 | 48 |  |  |  | |  |  | | 3 |  | |  |
| 多媒体信息处理 | Multimedia Information Processing | 2 | 36 | 18 | 18 |  |  |  | |  |  | | 3 |  | |  |
| 企业家论坛 | Business Forum | 1 | 24 | 0 | 24 |  |  |  | |  |  | |  | 6(1-4周) | |  |
| 企业项目实践 | Enterprise Project Practice | 1 | 24 | 0 | 24 |  |  |  | |  |  | |  | 6(1-4周) | |  |
| 合计 | | 51 | 954 | 462 | 492 | 3 | 2 | 0 | | 10 | 26 | | 19 | 12 | | 0 |

备注：辅修专业学分不低于50个学分，其中专业必修课32学分，多元化专业选修课不低于18学分。

分表三

**电子信息科学与技术专业辅修专业学位人才培养方案**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **课程性质** | | **课程中文名称** | **课程英文名称** | **课程学时、学分及分配** | | | | **各学年、学期每周课内学时** | | | | | | | | | | | |
| **学分** | **总学时** | **讲授学时** | **实践学时** | **1学年** | | | **2学年** | | | **3学年** | | | **4学年** | | |
| **1** | **2** | **3** | | **4** | **5** | | **6** | **7** | | **8** |
| 专业必修课 | 数学与科学基础 | 高等数学(1) | Advanced Mathematics (1) | 4 | 72 | 72 | 0 | 5 |  |  | |  |  | |  |  | |  |
| 高等数学(2) | Advanced Mathematics (2) | 4 | 72 | 72 | 0 |  | 4 |  | |  |  | |  |  | |  |
| 线性代数 | Linear Algebra | 3 | 54 | 54 | 0 | 4 |  |  | |  |  | |  |  | |  |
| 高级语言程序设计(1) | Advance Language Programming (1) | 4 | 72 | 36 | 36 | 3+3 |  |  | |  |  | |  |  | |  |
| 高级语言程序设计(2) | Advance Language Programming (2) | 3 | 54 | 27 | 27 |  | 3 |  | |  |  | |  |  | |  |
| 计算机基础 | Computer Foundation | 2 | 36 | 18 | 18 |  | 3 |  | |  |  | |  |  | |  |
| 大学物理(1) | College Physics (1) | 3 | 54 | 54 | 0 |  | 3 |  | |  |  | |  |  | |  |
| 大学物理(2) | College Physics (2) | 2 | 36 | 36 | 0 |  |  | 2 | |  |  | |  |  | |  |
| 大学物理实验 | College Physics Experiments | 1 | 24 | 0 | 24 |  |  | 3 | |  |  | |  |  | |  |
| 复变函数与积分变换 | Complex Function and Integral transformation | 2 | 36 | 36 | 0 |  |  | 2 | |  |  | |  |  | |  |
| 工程电磁场 | Engineering Electromagnetic Field | 2 | 36 | 36 | 0 |  |  |  | | 2 |  | |  |  | |  |
| 概率论与数理统计 | Probability Theory and Mathematical Statistics | 3 | 54 | 54 | 0 |  |  |  | | 3 |  | |  |  | |  |
| 合计 | | 33 | 600 | 495 | 105 | 15 | 13 | 7 | | 5 | 0 | | 0 | 0 | | 0 |
| 专业核心 | 电子信息技术导论 | Introduction of Electronic and Communication | 1 | 18 | 18 | 0 | 3 |  |  | |  |  | |  |  | |  |
| 电路基础 | Fundamental of Circuit | 4 | 72 | 54 | 18 |  | 4 |  | |  |  | |  |  | |  |
| 电子工艺设计与实训 | Electronic Process Design and Training | 2 | 48 | 0 | 48 |  |  | 3 | |  |  | |  |  | |  |
| 模拟电子技术 | Analog Electronics Technology | 3 | 54 | 54 | 0 |  |  | 3 | |  |  | |  |  | |  |
| 电路与模拟电子技术实践 | Circuit and Analog Electronic Technology Practice | 2 | 48 | 0 | 48 |  |  | 3 | |  |  | |  |  | |  |
| 数字电路与逻辑设计 | Digital Circuit and Logic Design | 3 | 54 | 54 | 0 |  |  | 3 | |  |  | |  |  | |  |
| 信号与系统 | Signals and Systems | 3 | 54 | 36 | 18 |  |  | 3 | |  |  | |  |  | |  |
| 微机原理与接口技术 | Computer Principle and Interface Technology | 3 | 54 | 36 | 18 |  |  |  | | 3 |  | |  |  | |  |
| 数字电路与逻辑设计实验 | Digital Circuit and Logic Design Experiments | 1 | 24 | 0 | 24 |  |  |  | | 3 |  | |  |  | |  |
| 电子技术课程设计 | Electronic Technology Curriculum Design | 2 | 36 | 12 | 24 |  |  |  | | 3 |  | |  |  | |  |
| 高频电子线路 | High Frequency Electronic Circuit | 3 | 54 | 54 | 0 |  |  |  | | 3 |  | |  |  | |  |
| 数字信号处理 | Digital Signal Processing | 3 | 54 | 36 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 传感器原理及应用 | Sensors Principle and Application | 2 | 36 | 36 | 0 |  |  |  | |  | 3 | |  |  | |  |
| 通信原理 | Principle of Communication Systems | 3 | 54 | 54 | 0 |  |  |  | |  | 3 | |  |  | |  |
| 通信原理与系统实验 | Communication Principle and System Experiments | 1 | 24 | 0 | 24 |  |  |  | |  | 3 | |  |  | |  |
| 电子综合设计与实训 | Electronic Integrated Design and Training | 2 | 48 | 0 | 48 |  |  |  | |  |  | | 3 |  | |  |
| 毕业实习 | Practical Training | 3 |  |  |  |  |  |  | |  |  | |  |  | |  |
| 毕业论文 | Graduation Project | 4 |  |  |  |  |  |  | |  |  | |  |  | |  |
| 合计 | | 45 | 732 | 444 | 288 | 3 | 4 | 15 | | 12 | 12 | | 3 | 0 | | 0 |
| 多元化选修课 | | MATLAB语言初步 | MATLAB Preliminary language | 1 | 24 | 0 | 24 | 3 |  |  | |  |  | |  |  | |  |
| 大学人文基础 | Foundation of university humanity | 2 | 36 | 36 | 0 |  | 2 |  | |  |  | |  |  | |  |
| 工程制图与CAD | Engineering Drawing and CAD | 2 | 36 | 12 | 24 |  |  |  | | 3 |  | |  |  | |  |
| 自动控制原理 | Principle of Automatic Control | 3 | 54 | 36 | 18 |  |  |  | | 3 |  | |  |  | |  |
| 计算机视觉及应用 | Computer Vision and Application | 2 | 36 | 12 | 24 |  |  |  | | 2 |  | |  |  | |  |
| 管理学基础 | Foundations of Management | 2 | 36 | 36 | 0 |  |  |  | | 2 |  | |  |  | |  |
| 单片机原理及应用 | Microchip Principles and Application | 3 | 54 | 18 | 36 |  |  |  | |  | 3 | |  |  | |  |
| 嵌入式系统与应用 | Embedded System and Application | 3 | 54 | 30 | 24 |  |  |  | |  | 3 | |  |  | |  |
| 电气与控制系统设计 | Electric and Control Systems Design | 3 | 54 | 36 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 数据库系统与应用 | [Database](javascript:void(0);) [System](javascript:void(0);) [and](javascript:void(0);) [Applications](javascript:void(0);) | 3 | 54 | 30 | 24 |  |  |  | |  | 3 | |  |  | |  |
| 计算机网络 | Computer Network | 3 | 54 | 36 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 虚拟仪器技术 | Virtual Instrument Technology | 2 | 36 | 18 | 18 |  |  |  | |  | 4 | |  |  | |  |
| CMOS集成电路设计 | CMOS Integrated Circuit Design | 3 | 54 | 36 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 数字图像处理 | Digital Image Processing | 2 | 36 | 18 | 18 |  |  |  | |  | 3 | |  |  | |  |
| 创新创业项目及学科竞赛 | Innovative Entrepreneurship Programs and Disciplines Competition | 1 | 24 | 0 | 24 |  |  |  | |  | 1 | |  |  | |  |
| 网站设计 | Website Design | 2 | 36 | 12 | 24 |  |  |  | |  |  | | 3 |  | |  |
| 数据结构 | Data Structure | 3 | 54 | 30 | 24 |  |  |  | |  |  | | 3 |  | |  |
| 软件配置与质量管理 | The Software Configuration and Quality Management | 2 | 36 | 18 | 18 |  |  |  | |  |  | | 4 |  | |  |
| 移动互联网技术 | Mobile Internet Technology | 3 | 54 | 30 | 24 |  |  |  | |  |  | | 3 |  | |  |
| 软件设计与实训 | Software Design and Training | 2 | 48 | 0 | 48 |  |  |  | |  |  | | 3 |  | |  |
| 多媒体信息处理 | Multimedia Information Processing | 2 | 36 | 18 | 18 |  |  |  | |  |  | | 3 |  | |  |
| 企业家论坛 | Business Forum | 1 | 24 | 0 | 24 |  |  |  | |  |  | |  | 6(1-4周) | |  |
| 企业项目实践 | Enterprise Project Practice | 1 | 24 | 0 | 24 |  |  |  | |  |  | |  | 6(1-4周) | |  |
| 合计 | | 51 | 954 | 462 | 492 | 3 | 2 | 0 | | 10 | 26 | | 19 | 12 | | 0 |

备注：辅修学位学分不低于60个学分，其中专业必修课不低于38学分，多元化专业选修课不低于22学分。