# 园艺学院

# 园艺专业人才培养方案

一、专业名称与代码

专业名称：园艺（Horticulture）

专业代码：090102

二、培养目标

本专业旨在培养德、智、体全面发展，掌握现代园艺科学基本知识、基本理论和基本技能；能在园艺相关领域或部门从事创业、推广、管理、经营、教学、科研工作的应用型或创业型人才。

三、培养要求

本专业学生主要学习园艺学的基本理论、基本知识，接受园艺植物生产、育种、采后保鲜全过程、管理和科研方面的基本训练，具有园艺植物生产、技术开发和推广、园艺企业经营管理方面的基本技能和从事相邻专业领域工作的适应能力。

四、专业准入课程

专业准入课程为植物生理学和遗传学，共4.5学分。

五、专业准出课程

专业准出课程共5门，14.5学分。包括试验统计学、土壤肥料学、园艺植物栽培学原理、园艺植物育种学原理和园艺植物植物保护学。

六、修业年限及授予学位

学制4年；授予农学学士学位。

七、毕业要求

本专业教学计划中，课内学时数为2360学时，学生毕业应取得总学分为160学分，其中通识教育课程45学分，专业教育课程39学分，专业拓展课程18学分，个性拓展课程10学分。实践教育48学分。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 学时分配与毕业学分要求 | 课程类别 | 学分 | 学时 | 实践周数 |
| 总数 | 理论 | 实验 |  |
| 通识教育课程小计 | 45 | 752 | 752 |  |  |
| 专业教育课程小计 | 39 | 632 | 617 | 15 |  |
| 拓展教育课程 | 专业拓展课程 | 18 | 288 | 288 |  |  |
| 个性拓展课程 | 10 | 160 | 160 |  |  |
| 实践教育课程 | 整合实验 | 果树方向 | 17 | 544 |  | 544 |  |
| 蔬菜方向 | 17 | 544 |  | 544 |  |
| 花卉与景观设计方向 | 17 | 544 |  | 544 |  |
| 园艺产品贮藏与流通方向 | 16 | 512 |  | 512 |  |
| 园艺生物技术方 | 16 | 512 |  | 512 |  |
| 种子科学与工程方向 | 16 | 512 |  | 512 |  |
| 整合实习 | 果树方向 | 5 |  |  |  | 5 |
| 蔬菜方向 | 5 |  |  |  | 5 |
| 花卉与景观设计方向 | 5 |  |  |  | 5 |
| 园艺产品贮藏与流通方向 | 6 |  |  |  | 6 |
| 园艺生物技术方 | 6 |  |  |  | 6 |
| 种子科学与工程方向 | 6 |  |  |  | 6 |
| 毕业要求 | 其它实践 | 26 |  |  |  | 27 |
| 果树方向 | 160 | 2360 | 1817 | 543 | 30 |
| 蔬菜方向 | 160 | 2360 | 1817 | 543 | 30 |
| 花卉与景观设计方向 | 160 | 2360 | 1817 | 543 | 31 |
| 园艺产品贮藏与流通方向 | 160 | 2360 | 1817 | 543 | 30 |
| 园艺生物技术方向 | 160 | 2360 | 1817 | 543 | 31 |
| 种子科学与工程方向 | 160 | 2360 | 1817 | 543 | 30 |
| 果树方向 | 选修课比例 | 25% | 实践环节比例 | 29% |
| 蔬菜方向统计 | 选修课比例 | 25% | 实践环节比例 | 29% |
| 花卉与景观设计方向统计 | 选修课比例 | 24% | 实践环节比例 | 29% |
| 园艺产品贮藏与流通方向统计 | 选修课比例 | 24% | 实践环节比例 | 29% |
| 园艺生物技术方统计 | 选修课比例 | 25% | 实践环节比例 | 29% |
| 种子科学与工程方向统计 | 选修课比例 | 24% | 实践环节比例 | 29% |

 专业主任：雷建军

八、教学计划进程表

**园艺专业教学计划进程表I**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | 课程代码 | 课程名称 | 学分 | 学 时 | 各学期学分分配 | 开课学院 | 备注 |
| 总数 | 理论 | 实验 | 实习 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 理论教育环节 | 通识教育课程 | 必修 | 8301001 | 马克思主义基本原理Fundamentalof Marxist | 2.0 | 32 | 32 |  |  |  |  | 2 |  |  |  |  |  | 思政部 |  |
| 8301005 | 毛泽东思想和中国特色社会主义理论体系概论 | 4.0 | 64 | 64 |  |  |  |  |  | 4 |  |  |  |  | 思政部 |  |
| 8301004 | 中国近现代史纲要The outline of Chinese Modern history | 2.0 | 32 | 32 |  |  | 2 |  |  |  |  |  |  |  | 思政部 |  |
| 8301003 | 思想道德修养与法律基础（含廉洁修身）Morals & Ethics and fundamental of Law | 2.0 | 32 | 32 |  |  |  | 2 |  |  |  |  |  |  | 思政部 |  |
| 8301006 | 形势政策教育ⅠSituation and Policy Education Ⅰ | 0.5 | 8 | 8 |  |  |  | 1 |  |  |  |  |  |  | 思政部 |  |
| 8301007 | 形势政策教育ⅡSituation and Policy Education Ⅱ | 0.5 | 8 | 8 |  |  |  |  |  | 1 |  |  |  |  | 思政部 |  |
| 8301008 | 形势政策教育ⅢSituation and Policy EducationⅢ | 0.5 | 8 | 8 |  |  |  |  |  |  |  | 0.5 |  |  | 思政部 |  |
| 8301009 | 形势政策教育ⅣSituation and Policy Education Ⅳ | 0.5 | 8 | 8 |  |  |  |  |  |  |  |  |  | 0.5 | 思政部 |  |
| 8241080 | 大学英语ⅠCollege EnglishⅠ | 2.5 | 40 | 40 |  |  | 3 |  |  |  |  |  |  |  | 外国语学院 |  |
| 8241081 | 大学英语ⅡCollege EnglishⅡ | 2.5 | 40 | 40 |  |  |  | 3 |  |  |  |  |  |  | 外国语学院 |  |
| 8241082 | 大学英语ⅢCollege EnglishⅢ | 2.5 | 40 | 40 |  |  |  |  | 3 |  |  |  |  |  | 外国语学院 |  |
| 8241083 | 大学英语ⅣCollege EnglishⅣ | 2.5 | 40 | 40 |  |  |  |  |  | 3 |  |  |  |  | 外国语学院 |  |
| 8251101 | 大学计算机基础Introduction of Computer | 2.0 | 32 | 32 |  |  |  | 2 |  |  |  |  |  |  | 数信学院 |  |
| 8251105 | Java程序设计Java programme design | 2.0 | 32 | 32 |  |  |  |  | 2 |  |  |  |  |  | 数信学院 |  |
| 8311001 | 体育ⅠPhysical Education Ⅰ | 0.5 | 8 | 8 |  |  | 1 |  |  |  |  |  |  |  | 体育部 |  |
| 8311002 | 体育ⅡPhysical EducationⅡ | 0.5 | 8 | 8 |  |  |  | 1 |  |  |  |  |  |  | 体育部 |  |
| 8311003 | 体育ⅢPhysical Education Ⅲ | 0.5 | 8 | 8 |  |  |  |  | 1 |  |  |  |  |  | 体育部 |  |
| 8311004 | 体育ⅣPhysical Education Ⅳ | 0.5 | 8 | 8 |  |  |  |  |  | 1 |  |  |  |  | 体育部 |  |
| 8321001 | 军事理论Military Theory | 2.0 | 32 | 32 |  |  |  | 2 |  |  |  |  |  |  | 武装部 |  |
| 8321003 | 大学生职业生涯规划 | 1.0 | 16 | 16 |  |  | 1 |  |  |  |  |  |  |  | 学生处 |  |
| 8321006 | 职业素养提升与就业指导 | 2.0 | 32 | 32 |  |  |  |  |  |  |  | 2 |  |  | 学生处 |  |
| 选修 | 8242101 | 英语选修课程 | 2.0 | 32 | 32 |  |  |  |  | 2 |  |  |  |  |  | 外国语学院 |  |
| 8112101 | 汉语选修课程 | 2.0 | 32 | 32 |  |  | 2 |  |  |  |  |  |  |  | 人文与法学学院 |  |
|  | A系列选修课程 | 8.0 | 128 | 128 |  |  |  | 2 | 2 | 2 | 2 |  |  |  |  |  |
| 通识教育课程小计 | 45.0 | 720 | 720 |  |  | 8 | 11 | 11 | 9 | 2 | 2 | 2 |  |  |  |
| 园艺专业教学计划进程表II |
| 理论教育环节 | 专业教育课程 | 专业平台课程 | 8121112 | 大学数学ⅠCollege Mathematics Ⅰ | 4.0 | 64 | 64 |  |  | 4 |  |  |  |  |  |  |  | 数信学院 |  |
| 8121113 | 大学数学ⅡCollege Mathematics Ⅱ | 3.0 | 48 | 48 |  |  |  | 3 |  |  |  |  |  |  | 数信学院 |  |
| 8121126 | 无机及分析化学BInorganic and Analysis Chemistry B | 3.0 | 48 | 48 |  |  | 3 |  |  |  |  |  |  |  | 材能学院 |  |
| 8121121 | 有机化学Organic Chemistry | 3.0 | 48 | 48 |  |  |  | 3 |  |  |  |  |  |  | 材能学院 |  |
| 8151121 | 植物学Bbotany B | 2.0 | 32 | 32 |  |  | 2 |  |  |  |  |  |  |  | 生科 |  |
| 8151161 | 生物化学Bbiochemistry B | 2.0 | 32 | 32 |  |  |  |  | 2 |  |  |  |  |  | 生科 | (双） |

**园艺专业教学计划进程表Ⅱ**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | 课程代码 | 课程名称 | 学分 | 学 时 | 各学期学分分配 | 开课学院 | 备注 |
| 总数 | 理论 | 实验 | 实习 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  |  | 8161069 | 微生物学Microbiology | 2.0 | 32 | 24 | 8 |  |  |  | 2 | 2 |  |  |  |  | 园艺 | (双）生技、采后和花卉第3学期开，其它方向第4学期开） |
| 8131069 | 气象学Climatology | 2.0 | 32 | 32 |  |  |  |  | 2 |  |  |  |  |  | 农学 | （双） |
| 专业准入课程 | 8131093 | 遗传学Genetics | 2.5 | 40 | 40 |  |  |  |  |  | 3 |  |  |  |  | 农学 | (辅、双） |
| 8151141 | 植物生理学BPlant Physiology B | 2.0 | 32 | 32 |  |  |  |  | 2 |  |  |  |  |  | 生科 | (辅、双） |
| 专业准出课程 | 8131091 | 试验统计学Experimental Statistics | 2.0 | 32 | 32 |  |  |  |  |  |  | 2 |  |  |  | 农学 | (辅、双） |
| 8141052 | 土壤肥料学Soil Fertilizer Science | 2.5 | 40 | 40 |  |  |  |  |  | 3 |  |  |  |  | 资环 | (辅、双） |
| 8161062 | 园艺植物栽培学原理Principle of Horticultural Crop Culture | 3.0 | 48 | 48 |  |  |  |  |  | 3 |  |  |  |  | 园艺 | (辅、双） |
|  |  |  | 8161063 | 园艺植物育种学原理Principle of Horticultural Plant Breeding | 3.0 | 48 | 48 |  |  |  |  |  |  | 3 | 3 |  |  | 园艺 | (辅、双)果树、蔬菜和种子方向第5学期开，其它方向第6学期开 |
| 8161050 | 园艺植物保护学Horticultural Plant Protection | 3.0 | 48 | 48 |  |  |  |  |  |  | 3 | 3 |  |  | 园艺 | (辅、双)果树、蔬菜和种子方向第6学期开，其它方向第5学期开 |
| 专业教育课程小计 | 39.0 | 624 | 616 | 8 |  | 9 | 6 | 6或8 | 8或10 | 2或5 | 3或6 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 园艺专业教学计划进程表III |
| 理论教育环节 | 专业拓展课程 | 果树方向 | 8163130 | 园艺植物生物技术Horticultural Plant Biotechnology | 2.0 | 32 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺 | 必选(双) |
| 8163119 | 园艺产品贮运学ⅡHorticultural Product Storage and Shipment Ⅱ | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 | 必选(双) |
| 8163026 | 果树栽培学（各论）Pomology(Particular Crops) | 2.0 | 32 | 32 |  |  |  |  |  |  | 2 |  |  |  | 园艺 | 必选(双) |
| 8163131 | 果树育种学（各论）Fruit Breeding(of Particular Crops) | 2.0 | 32 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺 | 必选(双) |
| 8163060 | 园艺概论General Horticulture | 1.0 | 16 | 16 |  |  | 1 |  |  |  |  |  |  |  | 园艺 | 必选1学分 |
| 8163126 | 园艺研究法Horticultural Research Methods | 1.5 | 24 | 24 |  |  |  |  |  |  | *2* |  |  |  | 园艺 | 任选组Ⅰ选4.5学分 |
| 8163132 | 园艺植物栽培生理Cultivation Physiology of Horticultural Crops | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163133 | 芳香植物学Aromatic Botany | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163134 | 果品营养与保健Fruit Nutrition and Health | 1.5 | 24 | 24 |  |  |  |  |  |  | *2* |  |  |  | 园艺 |
| 8163135 | 园艺设施栽培学Horticultural Greenhouse Cultivation | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163136 | 热带亚热带果树学Tropical and Subtropical Fruits | 1.5 | 24 | 24 |  |  |  |  |  |  |  | 1.5 |  |  | 园艺 | 任选组Ⅱ选2.5-3学分 |
| 8163130 | 园艺生物技术双语课Horticultural Plant Biotechnology（English） | 选修 | 2 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺 |

**园艺专业教学计划进程表Ⅲ**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | 课程代码 | 课程名称 | 学分 | 学 时 | 各学期学分分配 | 开课学院 | 备注 |
| 总数 | 理论 | 实验 | 实习 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  |  | 8163137 | 压花艺术Arts of Pressed Flowers | 1.0 | 16 | 16 |  |  |  |  |  |  |  | 1 |  |  | 园艺 |  |
| 8163138 | 科技论文写作Scientific Article Writing | 1.0 | 16 | 16 |  |  |  |  |  |  |  | 1 |  |  | 园艺 |
| 8163139 | 南方新优稀水果生产技术Production Techniques for Unique Southern Fruits | 1.5 | 24 | 24 |  |  |  |  |  |  |  | *2* |  |  | 园艺 |
| 8163140 | 园艺植物种质资源与分类Germplasm and Taxonomy of Horticultural Plant | 1.5 | 24 | 24 |  |  |  |  |  |  |  | *2* |  |  | 园艺 |
| 8163141 | 园艺植物产期调节Regulation of Horticultural Production Season | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 | 任选组Ⅲ选3学分 |
| 8163142 | 观光园规划与管理Sightseeing Horticultural Planning and Management | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 |
| 8163143 | 园艺商品学Horticultural Commodity Theory | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 |
| 8163144 | 园艺科学（双语）Horticulrual Science(English) | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 |
| 8163145 | 园艺植物有机栽培（双语）Organic Cultivation of Horticultural Crops(English) | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 |
| 小计 | 18.0 | 288 | 288 |  |  | 1 |  |  |  | 7 | 6 | 4.5 |  |  |  |
| 园艺专业教学计划进程表Ⅳ |
| 理论教育环节 | 专业拓展课程 | 蔬菜方向 | 8163130 | 园艺植物生物技术Horticultural Plant Biotechnology | 2.0 | 32 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺 | 必选(双） |
| 8163119 | 园艺产品贮运学ⅡHorticultural Product Storage and ShipmentⅡ | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 | 必选(双） |
| 8163049 | 蔬菜栽培学(各论)Olericulture ( particular crops) | 2.0 | 32 | 28 | 4 |  |  |  |  |  | 2 |  |  |  | 园艺 | 必选(双） |
| 8163146 | 蔬菜育种学（各论）Vegetable breeding(particular crops) | 2.0 | 32 | 28 | 4 |  |  |  |  |  |  | 2 |  |  | 园艺 | 必选(双） |
| 8163048 | 食用菌栽培学Edible Fungi Cultivation | 2.0 | 32 | 26 | 6 |  |  |  |  |  |  |  | 2 |  | 园艺 | 必选 |
| 8163060 | 园艺概论General Horticulture | 1.0 | 16 | 16 |  |  | 1 |  |  |  |  |  |  |  | 园艺 | 必选1学分 |
| 8163126 | 园艺研究法Horticultural Research Methods | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 | 任选组Ⅰ选3学分 |
| 8163132 | 园艺植物栽培生理Cultivation Physiology of Horticultural Crops | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163135 | 园艺设施栽培学Horticultural Greenhouse Cultivation | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163147 | 园艺植物种子学Horticultural Seed Production | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163148 | 果蔬病虫害防治Fruit and vegetable crops Insect Pests and Disease Control | 1.5 | 24 | 24 |  |  |  |  |  |  |  | 1.5 |  |  | 园艺 | 任选组Ⅱ选2.5-3学分 |
| 8163130 | 园艺生物技术双语课Horticultural Plant Biotechnology（English） | 选修 | 2 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺 |
| 8163137 | 压花艺术Arts of pressed flowers | 1.0 | 16 | 16 |  |  |  |  |  |  |  | 1 |  |  | 园艺 |
| 8163138 | 科技论文写作Scientific Article Writing | 1.0 | 16 | 16 |  |  |  |  |  |  |  | 1 |  |  | 园艺 |
| 8163121 | 蔬菜营养与保健Vegetable Nutrition and Health | 1.5 | 24 | 24 |  |  |  |  |  |  |  | 1.5 |  |  | 园艺 |
| 8163145 | 园艺植物有机栽培（双语）Organic Cultivation of Horticultural Crops(English) | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 | 任选组Ⅲ选3学分 |
| 8163149 | 绿色食品基本原理及技术Principles and Technology of Green Food | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 |

**园艺专业教学计划进程表Ⅳ**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | 课程代码 | 课程名称 | 学分 | 学 时 | 各学期学分分配 | 开课学院 | 备注 |
| 总数 | 理论 | 实验 | 实习 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  |  | 8163144 | 园艺科学（双语）Horticulrual Science(English) | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 |  |
| 8163150 | 种子经营管理Seed market and management | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 |
| 8163151 | 种子法律法规Seed Laws and Regulations | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  |  |
| 小计 | 18.0 | 288 | 288 |  |  | 1 |  |  |  | 5 | 6 | 6 |  |  |  |
| 园艺专业教学计划进程表Ⅴ |
| 理论教育环节 | 专业拓展课程 | 花卉与景观设计方向 | 8163086 | 美术基础（上）（花卉方向）Art Basis of DesignⅠ | 1.0 | 16 | 16 |  |  | 1 |  |  |  |  |  |  |  | 园艺 | 必选 |
| 8163115 | 美术基础（下）（花卉方向）Art Basis of DesignⅡ | 1.0 | 16 | 16 |  |  |  | 1 |  |  |  |  |  |  | 园艺 | 必选 |
| 8163060 | 园艺概论General Horticulture | 1.0 | 16 | 16 |  |  | 1 |  |  |  |  |  |  |  | 园艺 | 必选 |
| 8213170 | 园林制图ALandscape Architectural Drawing | 4.0 | 64 | 64 | 64 | 0 |  |  | 4 |  |  |  |  |  | 工程 | 必选（双） |
| 8283015 | 园林建筑学Landscape Architecture | 3.0 | 48 | 32 | 16 |  |  |  |  | 3 |  |  |  |  | 水利 | 任选组Ⅰ选1.5-3学分 |
| 8163152 | 花卉生理Ornamental Plant Physiology | 1.5 | 24 | 24 |  |  |  |  |  | 2 |  |  |  |  | 园艺 |
| 8163122 | 花卉国际贸易International Floricultural Trade | 1.5 | 24 | 24 |  |  |  |  |  | 2 |  |  |  |  | 园艺 |
| 8163085 | 计算机辅助设计Computer Aided Design | 1.5 | 32 | 32 |  |  |  |  |  |  | 2 |  |  |  | 园艺 | 任选组Ⅱ选3－3.5学分（计算机辅助设计与景观规划设计搭配，花卉学各论与花卉设计与应用搭配） |
| 8163089 | 景观规划设计（上）Landscape Planning and DesignⅠ | 2.0 | 32 | 32 |  |  |  |  |  |  | 2 |  |  |  | 园艺（双） |
| 8163033 | 花卉学（各论）Floriculture (Monograph) | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺（双） |
| 8163153 | 花卉产期调控Florescene Regulation of Ornamental Plants | 1.5 | 24 | 20 | 4 |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163127 | 园林树木学Ornamental Dendrology | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 | 必选（双） |
|  |  |  | 8253217 | 测量学Surveying | 2.0 | 32 | 32 |  |  |  |  |  |  | 2 |  |  |  | 信息 | 任选组Ⅲ选2－4学分 |
| 8163125 | 构成学Design Composition | 1.0 | 16 | 16 |  |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8163154 | 插花艺术Flower Arrangement and Floral Design | 1.0 | 16 | 16 |  |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8163155 | 花卉保鲜学Postharvest Technology of Ornamentals | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163133 | 芳香植物学Aromatic Botany | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163090 | 景观规划设计（下）Landscape Planning and DesignⅡ | 2.0 | 32 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺（双） | 任选组Ⅳ选3－3.5学分（景观规划设计下与景观工程两课搭配，科技论文写作与芳香植物学搭配） |
| 8163128 | 景观工程Landscape Engineering | 1.5 | 24 | 24 |  |  |  |  |  |  |  | 1.5 |  |  | 园艺 |
| 8163130 | 园艺生物技术双语课Horticultural Plant Biotechnology（English） | 选修 | 2 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺 |
| 8163138 | 科技论文写作Scientific Article Writing | 1.0 | 16 | 16 |  |  |  |  |  |  |  | 1 |  |  | 园艺 |
| 8163156 | 花卉设计与应用Design and Application of Ornamental Plants | 1.5 | 24 | 24 |  |  |  |  |  |  |  | 1.5 |  |  | 园艺 |
| 小计 | 18.0 | 288 | 288 |  |  | 2 | 1 | 4 | 1.5－3 | 6.5－9 | 3－3.5 |  |  |  |  |
| 园艺专业教学计划进程表Ⅵ |
| 理论教育环节 | 专业拓展课程 | 园艺产品贮藏与流通方向 | 8163130 | 园艺植物生物技术Biotechnology of Horticultural Plant | 2.0 | 32 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺 | 必选(双） |
| 8163081 | 园艺产品贮运学ⅠHorticultural Product Storage and Shipment Ⅰ | 2.5 | 40 | 40 |  |  |  |  |  |  |  | 2.5 |  |  | 园艺 | 必选（双） |

**园艺专业教学计划进程表Ⅴ**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | 课程代码 | 课程名称 | 学分 | 学 时 | 各学期学分分配 | 开课学院 | 备注 |
| 总数 | 理论 | 实验 | 实习 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  |  | 8163046 | 食品安全与质量控制Food Safety and Quality Control | 2.0 | 32 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺 | 必选(双） |
| 8223065 | 园艺产品加工学Horticultural Products Processing | 2.0 | 32 | 24 | 8 |  |  |  |  |  |  |  | 2 |  | 食品 | 必选 |
| 8163094 | 园艺产品信息学Informatics of Horticultural Products | 2.0 | 32 | 24 | 8 |  |  |  |  |  | 2 |  |  |  | 园艺 | 必选 |
| 8163056 | 园艺产品包装学Packaging of Horticultural Products | 2.0 | 32 | 32 |  |  |  |  |  |  |  |  | 2 |  | 园艺 | 必选（双） |
| 8163060 | 园艺概论General Horticulture | 1.0 | 16 | 16 |  |  | 1 |  |  |  |  |  |  |  | 园艺 | 必选1学分 |
| 8231185 | 物流管理Logistics | 3.0 | 48 | 48 |  |  |  |  |  |  | 3 |  |  |  | 经管 | 任选组Ⅰ选3-4.5学分 |
| 8163143 | 园艺商品学Horticultural Commodity Theory | 1.5 | 24 | 24 |  |  |  |  |  |  | *2* |  |  |  | 园艺 |
| 8163134 | 果品营养与保健Fruit Nutrition and Health | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163126 | 园艺研究法Horticultural Research Methods | 1.5 | 24 | 24 |  |  |  |  |  |  | *2* |  |  |  | 园艺 |
| 8163155 | 花卉保鲜学Postharvest Technology of Ornamentals | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163130 | 园艺生物技术双语课Horticultural Plant Biotechnology（English） | 选修 | 2 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺 | 任选组Ⅱ选1-2学分 |
| 8163138 | 科技论文写作Scientific Article Writing | 1.0 | 16 | 16 |  |  |  |  |  |  |  | 1 |  |  | 园艺 |
| 8163136 | 热带亚热带果树学Tropical and Subtropical Fruits | 1.5 | 24 | 24 |  |  |  |  |  |  |  | 1.5 |  |  | 园艺 |
| 小计 | 18.0 | 288 | 288 |  |  | 1 |  |  |  | 6 | 7.5 | 4 |  |  |  |
| 园艺生物技术方 | 8163130 | 园艺植物生物技术Biotechnology of Horticultural Plant | 2.0 | 32 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺 | 必选(双） |
| 8163119 | 园艺产品贮运学ⅡHorticultural Product Storage and ShipmentⅡ | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 | 必选(双） |
| 8163157 | 植物细胞工程Plant Cell Engineering | 2.0 | 32 | 32 |  |  |  |  |  |  | 2 |  |  |  | 园艺 | 必选（双） |
| 8163158 | 植物基因工程Plant Gene Engineering | 2.0 | 32 | 28 | 4 |  |  |  |  |  | 2 |  |  |  | 园艺 | 必选（双） |
| 8193024 | 细胞生物学Cell Biaology | 2.0 | 32 | 28 | 4 |  |  |  |  |  | 2 |  |  |  | 动医 | 必选 |
| 8153087 | 分子生物学Molecular Biology | 2.5 | 40 | 32 | 8 |  |  |  |  | 3 |  |  |  |  | 生科 | 必选 |
| 8163060 | 园艺概论General Horticulture | 1.0 | 16 | 16 |  |  | 1 |  |  |  |  |  |  |  | 园艺 | 必选1学分 |
| 8163142 | 观光园规划与管理Sightseeing Horticultural Planning and Management | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 | 任选组Ⅰ选1.5学分 |
| 8163126 | 园艺研究法Horticultural Research Methods | 1.5 | 24 | 24 |  |  |  |  |  |  | *2* |  |  |  | 园艺 |
|  |  |  | 8163132 | 园艺植物栽培生理Cultivation Physiology of Horticultural Crops | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |  |
| 8163144 | 园艺科学（双语）Horticulrual Science(English) | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 | 任选组Ⅱ选2.5-3学分 |
| 8163159 | 农业生物技术进展Advance of Agriculrual biology | 1.0 | 16 | 16 |  |  |  |  |  |  |  |  | 1 |  | 园艺 |
| 8163143 | 园艺商品学Horticultural Commodity Theory | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 |
| 8163140 | 园艺植物种质资源与分类Germplasm and Taxonomy of Horticultural Plant | 1.5 | 24 | 24 |  |  |  |  |  |  |  | *2* |  |  | 园艺 | 任选组Ⅲ选1-2学分 |
| 8163130 | 园艺生物技术双语课Horticultural Plant Biotechnology（English） | 选修 | 2 | 32 |  |  |  |  |  |  |  | *2* |  |  | 园艺 |
| 8163137 | 压花艺术Arts of Pressed Flowers | 1.0 | 16 | 16 |  |  |  |  |  |  |  | 1 |  |  | 园艺 |

**园艺专业教学计划进程表Ⅵ**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | 课程代码 | 课程名称 | 学分 | 学 时 | 各学期学分分配 | 开课学院 | 备注 |
| 总数 | 理论 | 实验 | 实习 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  |  | 8163138 | 科技论文写作Scientific Article Writing | 1.0 | 16 | 16 |  |  |  |  |  |  |  | 1 |  |  | 园艺 |  |
| 小计 | 18.0 | 288 | 288 |  |  | 1 |  |  | 3 | 8 | 3-3.5 | 4-4.5 |  |  |  |
| 园艺专业教学计划进程表Ⅶ |
| 理论教育环节 | 专业拓展课程 | 种子科学与工程方向 | 8163130 | 园艺植物生物技术Biotechnology of Horticultural Plant | 2.0 | 32 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺 | 必选(双） |
| 8163119 | 园艺产品贮运学ⅡHorticultural Product Storage and ShipmentⅡ | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 | 必选(双） |
| 8163160 | 种子生产技术Seed Producing | 2.0 | 32 | 32 |  |  |  |  |  |  | 2 |  |  |  | 园艺学院 | 必选（双） |
| 8133166 | 种子加工与贮藏学Seed processing and storage | 2.0 | 32 | 32 |  |  |  |  |  |  |  |  | 2 |  | 农学 | 必选（双） |
| 8163161 | 种子检验Seed testing | 2.0 | 32 | 32 |  |  |  |  |  |  |  | 2 |  |  | 园艺 | 必选（双） |
| 8163120 | 种子生物学Seed Biology | 2.0 | 32 | 32 |  |  |  |  |  |  | 2 |  |  |  | 园艺 | 必选 |
| 8163060 | 园艺概论General Horticulture | 1.0 | 16 | 16 |  |  | 1 |  |  |  |  |  |  |  | 园艺 | 必选1学分 |
| 8163162 | 种传病虫害Seed-born Disease and Insect | 1.5 | 24 | 24 |  |  |  |  |  |  |  | 1.5 |  |  | 园艺 | 任选组Ⅰ选1.5-2学分 |
| 8163163 | 园艺植物繁殖学Horticulrual Plant propagation | 1.5 | 24 | 24 |  |  |  |  |  |  |  | 1.5 |  |  | 园艺 |
| 8613146 | 蔬菜育种学（各论）Vegetable breeding(particular crops) | 2 | 32 | 28 | 4 |  |  |  |  |  |  | 2 |  |  | 园艺 |
| 8163130 | 园艺生物技术双语课Horticultural Plant Biotechnology（English） | 选修 | 2 | 32 |  |  |  |  |  |  | 2 |  |  |  | 园艺 | 任选组Ⅱ选2 |
| 8163132 | 园艺植物栽培生理Cultivation Physiology of Horticultural Crops | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163126 | 园艺研究法Horticultural Research Methods | 1.5 | 24 | 24 |  |  |  |  |  |  | 2 |  |  |  | 园艺 |
| 8163144 | 园艺科学（双语）Horticulrual Science(English) | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 | 任选组Ⅲ选3-3.5学分 |
| 8163150 | 种子经营管理Seed market and management | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 |
| 8163151 | 种子法律法规Seed Laws and Regulations | 1.5 | 24 | 24 |  |  |  |  |  |  |  |  | 1.5 |  | 园艺 |
| 8133084 | 植物新品种DUS测试技术Test of Plant New Variety DUS | 2.0 | 24 | 20 | 12 |  |  |  |  |  |  |  | 2 |  | 农学 |
| 小计 | 18.0 | 288 | 288 |  |  | 1 |  |  |  | 6 | 6 | 5.5 |  |  |  |
|  | 专业拓展教育小计（果树方向） | 18.0 | 288 | 288 |  |  | 1 |  |  |  | 7 | 6 | 4.5 |  |  |  |
|  | 专业拓展教育小计（蔬菜方向） | 18.0 | 288 | 288 |  |  | 1 |  |  |  | 5 | 6 | 6 |  |  |  |
|  | 专业拓展教育小计（花卉与景观设计方向） | 18.0 | 288 | 288 |  |  | 2 | 1 | 4 | 1.5－3 | 6.5－9 | 3－3.5 |  |  |  |  |
|  | 专业拓展教育小计（园艺产品贮藏与流通与方向） | 18.0 | 288 | 288 |  |  | 1 |  |  |  | 6 | 7.5 | 4 |  |  |  |
|  | 专业拓展教育小计（园艺生物技术方向） | 18.0 | 288 | 288 |  |  | 1 |  |  | 3 | 8 | 3-3.5 | 4-4.5 |  |  |  |
|  | 专业拓展教育小计（种子科学与工程方向） | 18.0 | 288 | 288 |  |  | 1 |  |  |  | 6 | 6 | 5.5 |  |  |  |
| 个性拓展课程 | 花卉与景观设计方向 | 8163164 | 庭园设计Garden Design | 1.0 | 16 | 16 |  |  |  |  |  |  |  | 1 |  |  | 园艺 | 任选组选Ⅴ选1－3学分 |
| 8163165 | 景观生态学Landscape Ecology | 1.5 | 24 | 24 |  |  |  |  |  |  |  | 1.5 |  |  | 园艺 |
| 8163166 | 草坪学Turf Science | 1.5 | 24 | 20 | 4 |  |  |  |  |  |  | 1.5 |  |  | 园艺 |
| 8163137 | 压花艺术Arts of Pressed Flowers | 1.0 | 16 | 16 |  |  |  |  |  |  |  | 1 |  |  | 园艺 |
| 8163167 | 盆景艺术Penjing | 1.0 | 16 | 16 |  |  |  |  |  |  |  |  | 1 |  | 园艺 | 任选组Ⅵ选1-1.5学分 |
| 8163168 | 城市公共空间景观设计Landscape Design of Urban Open Space | 1.0 | 16 | 16 |  |  |  |  |  |  |  |  | 1 |  | 园艺 |

**园艺专业教学计划进程表Ⅶ**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | 课程代码 | 课程名称 | 学分 | 学 时 | 各学期学分分配 | 开课学院 | 备注 |
| 总数 | 理论 | 实验 | 实习 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  |  | 8163123 | 城市园林绿化养护与管理Maintenance and Management of Urban Landscape | 1.5 | 16 | 12 | 4 |  |  |  |  |  |  |  | 1.5 |  | 园艺 |  |
|  | 全校公选课 | 10.0 |  |  |  |  |  |  |  |  |  | 4 | 4 |  | 任何学院 |  |
| 小计 | 10.0 |  |  |  |  |  |  |  |  |  | 5.0-7 | 5-7.5 |  |  |  |
| 其它方向 |  | 全校公选课 | 10.0 |  |  |  |  |  |  |  |  |  | 4 | 6 |  | 任何学院 |  |
| 园艺专业教学计划进程表Ⅷ |
| 实践教育环节 | 整合实验 | 所有方向（公共部分） | 8256065 | 大学计算机基础实验College computer Basis Experiments | 0.5 | 16 |  | 16 |  |  | 1 |  |  |  |  |  |  | 数信 | 必修 |
| 8256067 | Java程序设计实验Java Programme Design Experiments | 0.5 | 16 |  | 16 |  |  |  | 1 |  |  |  |  |  | 数信 | 必修 |
| 8126114 | 数学实验College Mathematics experiments | 1.0 | 32 |  | 32 |  |  | 1 |  |  |  |  |  |  | 数信 | 必修 |
| 8126127 | 基础化学实验BⅠBasic chemical Experiments BⅠ | 1.0 | 32 |  | 32 |  | 1 |  |  |  |  |  |  |  | 材能 | 必修 |
| 8126128 | 基础化学实验BⅡBasic chemical Experiment BⅡ | 1.0 | 32 |  | 32 |  |  | 1 |  |  |  |  |  |  | 材能 | 必修 |
| 8156121 | 植物学实验Bbotany Experiments B | 1.0 | 32 |  | 32 |  | 1 |  |  |  |  |  |  |  | 生科 | 必修 |
| 8156161 | 生物化学实验BBichemical experiments B | 0.5 | 16 |  | 16 |  |  |  | 1 |  |  |  |  |  | 材能 | 必修（双） |
| 8156141 | 植物生理学实验BPlant Physiology Experiments B | 0.5 | 16 |  | 16 |  |  |  | 1 |  |  |  |  |  | 生科 | 必修（辅、双） |
| 8136066 | 气象学实验Climatology Experiments | 0.5 | 16 |  | 16 |  |  |  | 1 |  |  |  |  |  | 农学 | 必修（双） |
| 8146022 | 土壤肥料学实验Soil Fertilizer Science Experiments | 1.0 | 32 |  | 32 |  |  |  |  | 1 |  |  |  |  | 资环 | 必修（辅、双） |
| 8136068 | 遗传学实验Genetics Experiments | 1.0 | 32 |  | 32 |  |  |  |  | 1 |  |  |  |  | 农学 | 必修（辅、双） |
| 8166070 | 园艺植物栽培学实验Experiments Horticultural Crop Culture | 1.0 | 32 |  | 32 |  |  |  |  | 1 |  |  |  |  | 园艺 | 必修（辅、双） |
| 8161055 | 园艺植物育种学实验Experiments of Horticultrual Plant breeding | 1.0 | 32 |  | 32 |  |  |  |  |  | 1 | 1 |  |  | 园艺 | 必修（辅、双）果树、蔬菜和种子方向第5学期开，其它第6学期开 |
| 8166071 | 园艺植物保护学实验Experiments of Horticultrual Plant Protection | 1.0 | 32 |  | 32 |  |  |  |  |  | 1 | 1 |  |  | 园艺 | 必修（辅、双）生技、采后和花卉分析第5学期开，其他方向第6学期开 |
| 8136067 | 试验统计学实验Experimental Statistics Experiment | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 农学 | 必修（辅、双） |
| 小计 | 12.0 | 384 |  | 384 |  | 2 | 3 | 2 | 3 | 2 | 1 |  |  |  |  |
| 园艺专业教学计划进程表Ⅸ |
| 实践教育环节 | 整合实验 | 果树方向 | 8166072 | 园艺植物生物技术实验Experiments ofHorticultural Plant Biotechnology | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 必选（双） |
| 8166074 | 园艺产品贮运学Ⅱ实验Experiments of Horticultural Product Storage and Shipment Ⅱ | 0.5 | 16 |  | 16 |  |  |  |  |  |  |  | 0.5 |  | 园艺 | 必选（双） |
| 8166075 | 果树栽培学（各论）实验Pomology(Particular Crops) Experiments | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 | 必选（双） |

**园艺专业教学计划进程表Ⅷ**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | 课程代码 | 课程名称 | 学分 | 学 时 | 各学期学分分配 | 开课学院 | 备注 |
| 总数 | 理论 | 实验 | 实习 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  |  | 8166077 | 果树育种学（各论）实验Fruit Breeding (particular crops) Experiments | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 必选（双） |
| 8166091 | 园艺研究法实验Experiments of Horticultural Research Methods | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 | 实验Ⅰ组选1.5学分 |
| 8166093 | 园艺植物栽培生理实验Experimentsof Cultivation Physiology of Horticultural Crops | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166102 | 园艺设施栽培学实验Experiments of Horticultural Greenhouse Cultivation | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166107 | 果品营养与保健实验Fruit Experiments of Nutrition and Health | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166097 | 芳香植物学实验Aromatic Botany Experiments | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166092 | 科技论文写作实验Experiments of Scientific Article Writing | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 实验Ⅱ组选1-1.5学分 |
| 8166109 | 压花艺术实验Experiments of Arts of Pressed Flowers | 1.0 | 32 |  | 32 |  |  |  |  |  |  | 1 |  |  | 园艺 |
| 8166094 | 热带亚热带果树学实验Experiments of Tropical and Subtropical Fruits | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 |
| 8166111 | 南方新优稀水果生产技术实验Experiments of Production Techniques for Unique Southern Fruits | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 1 |  |  | 园艺 |
| 8166112 | 园艺植物种质资源与分类实验Germplasm and Taxonomy of Horticultural Plant Experiments of | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 1 |  |  | 园艺 |
| 8166098 | 观光园规划与管理实验Sightseeing Horticultural Planning and Management Experiments of | 0.5 | 16 |  | 16 |  |  |  |  |  |  |  | 0.5 |  | 园艺 | 实验Ⅲ组选0-0.5学分 |
| 小计 | 5.0 | 160 |  | 160 |  |  |  |  |  | 2 | 2.5 | 0.5-1 |  |  |  |
| 园艺专业教学计划进程表V |
| 实践教育环节 | 整合实验 | 蔬菜方向 | 8166072 | 园艺植物生物技术实验Experimentsof Horticultural Plant Biotechnology | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 必选（双） |
| 8166074 | 园艺产品贮运学Ⅱ实验Experimentsof Horticultural Product Storage and ShipmentⅡ | 0.5 | 16 |  | 16 |  |  |  |  |  |  |  | 0.5 |  | 园艺 | 必选（双） |
| 8166076 | 蔬菜栽培学(各论)实验Experimentsof Olericulture ( particular crops) | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 | 必选(双） |
| 8166078 | 蔬菜育种学（各论）实验Experimentsof Vegetable breeding(particular crops) | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 必选(辅、双） |
| 8166079 | 食用菌栽培学实验Experiments of Edible Fungi Cultivation | 0.5 | 16 |  | 16 |  |  |  |  |  |  |  | 0.5 |  | 园艺 | 必选 |
| 8166091 | 园艺研究法实验Experiments of Horticultural Research Methods | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 | 实践选实验Ⅰ组选1学分 |
| 8166093 | 园艺植物栽培生理实验Experimentsof Cultivation Physiology of Horticultural Crops | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166102 | 园艺设施栽培学实验Experimentsof Horticultural Greenhouse Cultivation | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166099 | 园艺植物种子学实验Experimentsof Horticultural Seed Production | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |

**园艺专业教学计划进程表Ⅸ**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | 课程代码 | 课程名称 | 学分 | 学 时 | 各学期学分分配 | 开课学院 | 备注 |
| 总数 | 理论 | 实验 | 实习 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  |  | 8166095 | 果蔬病虫害防治实验Experimentsof Fruit and vegetable crops Insect Pests and Disease Control | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 实践选实验Ⅱ组选1-1.5学分 |
| 8166109 | 压花艺术实验Experiments of Arts of Pressed Flowers | 1.0 | 32 |  | 32 |  |  |  |  |  |  | 1 |  |  | 园艺 |
| 8166092 | 科技论文写作实验Experimentsof Scientific Article Writing | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 |
| 8166106 | 蔬菜营养与保健实验Experimentsof Vegetable Nutrition and Health | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 |
| 小计 |  | 5.0 | 160 |  | 160 |  |  |  |  |  | 2 | 2.5 | 1 |  |  |  |
|  |  | 花卉与景观设计方向特有部分 | 8166115 | 美术基础（上）实验Arts Basisof Design　I (Practice Based) | 1.0 | 32 |  | 32 |  | 1 |  |  |  |  |  |  |  | 园艺 | 必选 |
| 8166060 | 美术基础（下）实验Arts BasisofDesign　Ⅱ (Practice Based) | 1.0 | 32 |  | 32 |  |  | 1 |  |  |  |  |  |  | 园艺 | 必选 |
| 8166121 | 花卉生理学实验Experiment for Ornamental Plant Physiology | 0.5 | 16 |  | 16 |  |  |  |  | 1 |  |  |  |  | 园艺 | 任选组Ⅰ选0-0.5学分 |
| 8166117 | 景观设计综合实验Ⅰ（景观规划设计上、计算机辅助设计课综合）Landscape Design integrated Experiment Ⅰ (Combined with Landscape Planning and Design and Computer Aided Design) | 1.0 | 32 |  | 32 |  |  |  |  |  | 1 |  |  |  | 园艺（双） | 任选组Ⅱ选1学分（计算机辅助设计与景观规划设计搭配，花卉学各论与花卉花期调控搭配） |
| 8166080 | 花卉学实验（各论）Floriculture (Monograph)(Pratice Based) | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺（双） |
| 8166122 | 花卉产期调控实验Experiment for Florescene Regulation of Ornamental Plants | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166081 | 园林树木学实验Experiment for Ornamental Dendrology (Pratice Based) | 1.0 | 32 |  | 32 |  |  |  |  |  | 1 |  |  |  | 园艺（双） | 必选 |
| 8256069 | 测量学实验Surveying and Mapping Experiments | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 信息学院 | 任选组Ⅲ选0.5－1.5学分 |
| 8166135 | 构成学实验Design Composition (Pratice Based) | 1.0 | 32 |  | 32 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166108 | 插花艺术实验Flower Arrangement and Floral Design(Pratice Based) | 1.0 | 32 |  | 32 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166105 | 花卉保鲜学实验Experiment for Postharvest Technology of Flowers | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166097 | 芳香植物学实验Ornamental Dendrology (Pratice Based) | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166117 | 景观规划设计实验Ⅱ(景观规划设计下、景观工程二门课程综合）Landscape Design integrated Experiment Ⅱ （combined with Landscape Planning II and Landscape Engineering） | 1.0 | 32 |  | 32 |  |  |  |  |  |  | 1 |  |  | 园艺（双） | 任选组Ⅳ选1学分（景观规划设计下与景观工程两课搭配，科技论文写作与花卉设计与应用搭配） |
| 8166092 | 科技论文写作实验Practice for Scientific Article Writing | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 |
| 8166103 | 花卉设计与应用实验Design and Application of Ornamental Plants (Pratice Based) | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 |
| 专业拓展课实验小计 | 5.0 | 160 |  | 160 |  | 1 | 1 |  | 0－0.5 | 2.5－3 | 1 |  |  |  |  |
| 园艺专业教学计划进程表Ⅺ |

**园艺专业教学计划进程表Ⅸ**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | 课程代码 | 课程名称 | 学分 | 学 时 | 各学期学分分配 | 开课学院 | 备注 |
| 总数 | 理论 | 实验 | 实习 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 实践教育环节 | 整合实验 | 花卉与景观设计特有部分 | 8166136 | 庭园设计实验Garden Design (Practice Based) | 1.0 | 32 |  | 32 |  |  |  |  |  |  | 1 |  |  | 园艺 | 任选组选Ⅴ选0－1学分 |
| 8166137 | 景观生态学实验Landscape Ecology(Practice Based) | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 |
| 8166109 | 压花艺术实验Experiments of Arts of Pressed Flowers | 1.0 | 32 |  | 32 |  |  |  |  |  |  | 1 |  |  | 园艺 |
| 8166104 | 盆景艺术实验Penjing (Practice Based) | 1.0 | 32 |  | 32 |  |  |  |  |  |  |  | 1 |  | 园艺 | 任选组Ⅵ选0-1学分 |
| 8166120 | 城市公共空间景观设计实验Landscape Design of Urban Space (Pratice Based) | 1.0 | 32 |  | 32 |  |  |  |  |  |  |  | 1 |  | 园艺 |
| 个性拓展课实验小计 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 园艺产品贮藏与流通方向 | 8166072 | 园艺植物生物技术实验Experiments of Biotechnology of Horticultural Plant | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 必选（双） |
| 8166073 | 园艺产品贮运学Ⅰ实验Experiments of Horticultural Product Storage and Shipment ⅠHorticultural Product Storage and Shipment Ⅰ | 1.0 | 32 |  | 32 |  |  |  |  |  |  | 1 |  |  | 园艺 | 必选（辅、双） |
|  |  |  | 8166082 | 食品安全与质量控制实验Experiments of Food Safety and Quality Control | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 必选（双） |
| 8166085 | 园艺产品包装学实验Experiments of Packaging of Horticultural Products | 0.5 | 16 |  | 16 |  |  |  |  |  |  |  | 0.5 |  | 园艺 | 必选（双） |
| 8166107 | 果品营养与保健实验Experiments of Fruit Nutrition and Health | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 | 实验Ⅰ组选1学分 |
| 8166091 | 园艺研究法实验Experiments of Horticultural Research Methods | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166105 | 花卉保鲜学实验Experiments of Postharvest Technology of Flowers | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166094 | 热带亚热带果树学实验Experiments of Tropical and Subtropical Fruits | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 实验Ⅱ组选0.5学分 |
| 8166092 | 科技论文写作实验Experiments of Scientific Article Writing | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 |
| 小计 | 4.0 | 128 |  | 128 |  |  |  |  |  | 1 | 2.5 | 0.5 |  |  |  |
| 园艺生物技术方向 | 8166072 | 园艺植物生物技术实验Experimentsof Biotechnology of HorticulturalPlant | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 必选（双） |
| 8166074 | 园艺产品贮运学Ⅱ实验Experiments of Horticultural Product Storage and ShipmentⅡ | 0.5 | 16 |  | 16 |  |  |  |  |  |  |  | 0.5 |  | 园艺 | 必选（双） |
| 8166086 | 植物细胞工程实验Experiments of Plant Cell Engineering | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 | 必选（双） |
| 8166087 | 植物基因工程实验Experiments of Plant Gene Engineering | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 | 必选（双） |
| 8196090 | 细胞生物学实验Experiments of Cell Biology | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 动医 | 必选（双） |
| 8166093 | 园艺植物栽培生理实验Experiments of Cultivation Physiology of Horticultural Crops | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 | 实验Ⅰ组选0.5学分 |
| 8166091 | 园艺研究法实验Experiments of Horticultural Research Methods | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166098 | 观光园规划与管理实验Experiments of Sightseeing Horticultural Planning and Management | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 8166112 | 园艺植物种质资源与分类实验Experiments of Germplasm and Taxonomy of Horticultural Plant | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 1 |  |  | 园艺 | 实验Ⅱ组选0.5-1学分 |

**园艺专业教学计划进程表Ⅹ**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | 课程代码 | 课程名称 | 学分 | 学 时 | 各学期学分分配 | 开课学院 | 备注 |
| 总数 | 理论 | 实验 | 实习 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  |  | 8166109 | 压花艺术实验Experiments of Arts of Pressed Flowers | 1.0 | 32 |  | 32 |  |  |  |  |  |  | 1 |  |  | 园艺 |  |
| 8166092 | 科技论文写作实验Experiments of Scientific Article Writing | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 |
| 小计 | 4.0 | 128 |  | 128 |  |  |  |  |  | 2 | 1-1.5 | 0.5 |  |  |  |
| 园艺专业教学计划进程表Ⅻ |
| 实践教育环节 | 整合实验 | 种子科学与工程方向 | 8166072 | 园艺植物生物技术实验Experimentsof Biotechnology of HorticulturalPlant | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 必选（双） |
| 8166074 | 园艺产品贮运学Ⅱ实验Experimentsof Horticultural Product Storage and ShipmentⅡ | 0.5 | 16 |  | 16 |  |  |  |  |  |  |  | 0.5 |  | 园艺 | 必选（双） |
| 8166088 | 种子生产技术实验Experiments of Seed Production | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 | 必选（双） |
| 8136074 | 种子加工与贮藏学实验Experiments of Seed processing and storage | 0.5 | 16 |  | 16 |  |  |  |  |  |  |  | 0.5 |  | 农学 | 必选（双） |
| 8166089 | 种子检验实验Experiments of Seed testing | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 必选（双） |
| 8166090 | 种子生物学实验Experiments of Seed Biology | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 | 必选（双） |
| 8166100 | 种传病虫害实验Experiments of Seed-born Disease and Insect | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 | 实验Ⅰ组选0.5学分 |
| 8166101 | 园艺植物繁殖学实验Experiments of Horticulrual Plant propagation | 0.5 | 16 |  | 16 |  |  |  |  |  |  | 0.5 |  |  | 园艺 |
|  |  |  | 8166093 | 园艺植物栽培生理实验Experiments of Cultivation Physiology of Horticultural Crops | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 | 实验Ⅱ组选0.5学分 |
| 8166091 | 园艺研究法实验Experiments of Horticultural Research Methods | 0.5 | 16 |  | 16 |  |  |  |  |  | 1 |  |  |  | 园艺 |
| 小计 | 4.0 | 128 |  | 128 |  |  |  |  |  | 2 | 1.5 | 1 |  |  |  |
| 整合实验小计（果树方向） |  |  | 17.0 | 544 |  | 544 |  | 2 | 3 | 2 | 3 | 4 | 3.5 | 0.5-1 |  |  |  |
| 整合实验小计（蔬菜方向） | 17.0 | 544 |  | 544 |  | 2 | 3 | 2 | 3 | 3 | 3.5 | 1 |  |  |  |
| 整合实验小计（花卉与景观设计方向） | 17.0 | 544 |  | 544 |  | 3 | 4 | 2 | 3-3.5 | 3.5-4.5 | 2 |  |  |  |  |
| 整合实验小计（园艺产品贮藏与流通方向） | 16.0 | 512 |  | 512 |  | 2 | 3 | 2 | 3 | 3 | 3.5 | 0.5 |  |  |  |
| 整合实验小计（园艺生物技术方向） | 16.0 | 512 |  | 512 |  | 2 | 3 | 2 | 3 | 4 | 2-2.5 | 0.5 |  |  |  |
| 整合实验小计（种子科学与工程方向） | 16.0 | 512 |  | 512 |  | 2 | 3 | 2 | 3 | 3 | 2.5 | 1 |  |  |  |
| 整合实习 | 所有方向 | 8166036 | 园艺植物栽培课程实习Horticultural Crop Culture Practice | 1.0 |  |  |  | 1 |  |  |  | 1 |  |  |  |  | 园艺 | 双 |
| 8166035 | 园艺植物育种学原理实习（果树、蔬菜和种子方向） | 1.0 |  |  |  | 1 |  |  |  |  | 1 | 1 |  |  | 园艺 | 双(果树、蔬菜和种子方向第5学期开，其它方向第6学期开） |
| 果树方向 | 8166034 | 园艺植物生物技术课程实习 | 2.0 |  |  |  | 1 |  |  |  |  |  |  | 1 |  | 园艺 | 双 |
| 8166019 | 专业综合实习 |  |  |  |  | 2 |  |  |  |  |  |  | 2 |  | 园艺 | 必选 |
| 蔬菜方向 | 8166034 | 园艺植物生物技术课程实习Horticultural PlantBiotechnology Practice | 1.0 |  |  |  | 1 |  |  |  |  |  | 1 |  |  | 园艺 | 双 |
| 8166019 | 专业综合实习 |  |  |  |  | 2 |  |  |  |  |  |  | 2 |  | 园艺 | 必选 |

**园艺专业教学计划进程表Ⅺ**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类别 | 课程代码 | 课程名称 | 学分 | 学 时 | 各学期学分分配 | 开课学院 | 备注 |
| 总数 | 理论 | 实验 | 实习 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  | 花卉与景观设计方向 | 8166119 | 花卉与景观设计专业课程（花卉学、园林树木学、景观设计、景观工程、景观生态）综合实习comprehensive Practice for Flower and Landscape | 2.0 |  |  |  | 2 |  |  |  |  |  | 2 |  |  | 园艺 | 双 |
| 8166019 | 专业综合实习 |  |  |  |  | 2 |  |  |  |  |  |  | 2 |  | 园艺 | 必选 |
| 园艺专业教学计划进程表Ⅻ |
| 实践教育环节 | 整合实习 | 园艺产品贮藏与流通方向 | 8166034 | 园艺植物生物技术课程实习Horticultural PlantBiotechnology Practice | 1.0 |  |  |  | 1 |  |  |  |  |  | 1 |  |  | 园艺 | 双 |
| 8166138 | 园艺产品贮运学Ⅰ课程实习Horticultural Product StorageAnd Shipment Practice Ⅰ | 2.0 |  |  |  | 2.0 |  |  |  |  |  | 2.0 |  |  | 园艺 | 双 |
| 8166019 | 专业综合实习 |  |  |  |  | 2 |  |  |  |  |  |  | 2 |  | 园艺 | 必选 |
| 生物技术方向 | 8166033 | 基因工程实习Gene Engineering Practice | 1.0 |  |  |  | 1 |  |  |  |  | 1 |  |  |  | 园艺 | 双 |
| 8166019 | 专业综合实习 |  |  |  |  | 2 |  |  |  |  |  |  | 2 |  | 园艺 | 必选 |
| 8166038 | 细胞工程实习Cell Enigineering Practice | 1.0 |  |  |  | 1 |  |  |  |  | 1 |  |  |  | 园艺 | 双 |
| 种子科学与工程方向 | 8166034 | 园艺植物生物技术课程实习Horticultural PlantBiotechnology Practice | 1.0 |  |  |  | 1 |  |  |  |  |  | 1 |  |  | 园艺 | 双 |
| 8136048 | 种子加工与贮藏技术实习Practice of Seed processing and storage | 1.0 |  |  |  | 1 |  |  |  |  |  |  | 1 |  | 农学 | 必选 |
| 8166019 | 专业综合实习 |  |  |  |  | 2 |  |  |  |  |  |  | 2 |  | 园艺 | 必选 |
| 整合实习小计（果树方向） | 5.0 |  |  |  | 5 |  |  |  | 1 | 1 | 1 | 2 |  |  |  |
| 整合实习小计（蔬菜方向） | 5.0 |  |  |  | 5 |  |  |  | 1 | 1 | 1 | 2 |  |  |  |
| 整合实习小计（花卉与景观设计方向） | 5.0 |  |  |  | 5 |  |  |  | 1 |  | 2 | 2 |  |  |  |
| 整合实习小计（园艺产品贮藏与流通与方向） | 6.0 |  |  |  | 5 |  |  |  | 1 |  | 3 | 2 |  |  |  |
| 整合实习小计（园艺生物技术方向） | 6.0 |  |  |  | 6 |  |  |  | 1 | 2 | 1 | 2 |  |  |  |
| 整合实习小计（种子科学与工程方向） | 6.0 |  |  |  | 6 |  |  |  | 1 | 1 | 2 | 2 |  |  |  |
|  | 社会实践 |  | 社会实践 | 4.0 |  |  |  | 4 |  |  | 1 | 1 | 2 |  |  |  | 思政部 |  |
|  | 创新创业 | 8166057 | 创新创业 | 3.0 |  |  |  | 3 |  |  |  |  |  |  |  | 3 | 园艺 |  |
|  | 学科训练 |  | 学科训练Ⅰ\Ⅱ | 2.0 |  |  |  | 2 |  |  |  | 1 | 1 |  |  |  | 训练中心 |  |
|  | 阳光体育 |  | 阳光体育 | 2.0 |  |  |  | 2 | 1 | 1 | 1 | 1 |  |  |  |  | 体育 |  |
|  | 军训 | 8326001 | 军训 | 1.0 | 1 |  |  | 1 | 1 |  |  |  |  |  |  |  | 武装部 |  |
|  | 毕业实习 | 8166004 | 毕业实习 | 6.0 |  |  |  | 6 |  |  |  |  |  |  |  | 6 | 园艺 | （双） |
|  | 毕业论文/设计 | 8166001 | 毕业论文/设计 | 8.0 |  |  |  | 8 |  |  |  |  |  |  |  | 8 | 园艺 | （双） |
|  | 其他实践课程小计 | 26.0 |  |  |  | 26 | 2 | 1 | 2 | 3 | 3 |  |  | 17 |  |  |
|  | 实践教育环节课程小计（果树方向） | 48 |  |  |  |  | 4 | 3 | 4 | 6 | 7 | 7 | 3 | 17 |  |  |
|  | 实践教育环节课程小计（蔬菜方向） | 48 |  |  |  |  | 4 | 3 | 4 | 6 | 7 | 7 | 3 | 17 |  |  |
|  | 实践教育环节课程小计（花卉与景观设计方向） | 48 |  |  |  |  | 5 | 4 | 4 | 6 | 6 | 5 | 2.5 | 17 |  |  |
|  | 实践教育环节课程小计（园艺产品贮藏与流通方向） | 48.0 |  |  |  |  | 4 | 3 | 4 | 6 | 5 | 8.5 | 2.5 | 17 |  |  |
|  | 实践教育环节课程小计（园艺生物技术方向） | 48 |  |  |  |  | 4 | 3 | 4 | 6 | 8 | 5-5.5 | 2.5 | 17 |  |  |
|  | 实践教育环节课程小计（种子科学与工程方向） | 48 |  |  |  |  | 4 | 3 | 4 | 6 | 5 | 7 | 3.5 | 17 |  |  |
|  | 总计（果树方向） | 160 |  |  |  |  | 20 | 22 | 19 | 26 | 20 | 22 | 16 | 17 |  |  |
|  | 总计（蔬菜方向） | 160 |  |  |  |  | 20 | 22 | 19 | 26 | 18 | 22 | 17 | 17 |  |  |
|  | 总计（花卉与景观设计方向） | 160 |  |  |  |  | 22 | 24 | 25 | 26-26.5 | 20 | 17-17.5 | 11 | 17 |  |  |
|  | 总计（园艺产品贮藏与流通方向） | 160 |  |  |  |  | 20 | 22 | 21 | 25 | 17 | 25 | 15 | 17 |  |  |
|  | 总计（园艺生物技术方向） | 160 |  |  |  |  | 20 | 22 | 21 | 27 | 22 | 17-18 | 14.5-15 | 17 |  |  |
|  | 总计（种子科学与工程方向） | 160 |  |  |  |  | 20 | 22 | 19 | 27 | 18 | 22 | 17 | 17 |  |  |

必修课比例统计：79%；选修课比例统计：21%。辅修：24学分 双学位：果树方向和蔬菜方向均为58学分，花卉与景观设计方向为62学分，园艺产品贮藏与流通方向和园艺生物技术方向均为59.5学分，种子科学与工程方向为61学分。

说明：
1、辅修及双学位的课程请在备注注明，辅修请注“辅”，双学位请注“双”，原则上双学位是在辅修的基础上再增加课程。
2、必修课比例指理论课及实验课中必修课学时占总学时的比例。

3、辅是指辅修专业需要学习的课程，双是指双学位需要学习的课程，双语是指双语教学课程