# 机械电子工程专业国际学生本科指导性培养计划

表一

| 课程类别 | 课程性质 | 课程编号 | 课程名称 | 总学分 | 总学时(学周) | 理论授课学时 | 实践教学 | | | | 各学期学时（学周） | | | | | | | | 考核方式 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 实验学时 | 上机学时 | 实践学时 | 实践学周 | 一 | 二 | 三 | 四 | 五 | 六 | 七 | 八 | |
| 通识与公共基础课程 | 必修课 | 112306-8 | 汉语1-3 | 12.0 | 196 | 196 | | | | | 64 | 64 | 64 | | | | | | 闭卷 |
| | | 112309-10 | 中国概况1-2 | 4.0 | 64 | 64 | | | | | 32 | 32 | | | | | | | 闭卷 |
| | | 113101-4 | 体育1-4 | 4.0 | 144 | 120 | | | 24 | | 36 | 36 | 36 | 36 | | | | | 综合测评 |
| | | 109133-4 | 高等数学B1-2 | 11.0 | 176 | 176 | | | | | 80 | 96 | | | | | | | 闭卷 |
| | | 109115 | 线性代数 | 2.0 | 32 | 32 | | | | | | 32 | | | | | | | 闭卷 |
| | | 109102 | 概率与数理统计 | 3.0 | 48 | 48 | | | | | | | 48 | | | | | | 闭卷 |
| | | 109211 | 大学物理B | 5.0 | 80 | 80 | | | | | | | 80 | | | | | | 闭卷 |
| | | 109208 | 大学物理实验 | 1.5 | 36 | | 36 | | | | | | | 36 | | | | | 综合测评 |
| | | 203104 | 工程化学 | 2.5 | 40 | 32 | 8 | | | | 40 | | | | | | | | 闭卷 |
| | | 116327 | 计算机与C程序设计基础 | 2.0 | 32 | 24 | | 8 | | | 40 | | | | | | | | 闭卷 |
| | | 116328 | C程序设计 | 3.0 | 48 | 28 | | 20 | | | | 40 | | | | | | | 闭卷 |
| | | 免修课程 | | 14.0 | 军训、军事理论、思想道德修养与法律基础、中国近现代史纲要、马克思主义基本原理、毛泽东思想和中国特色社会主义理论体系概论、形势与政策。 | | | | | | | | | | | | | | |
| | | 小　　计 | | 50.0 | 896 | 800 | 44 | 28 | 24 | 0 | 292 | 300 | 228 | 72 | | | | | |
| | 选修课 | 见公共选修课一览表 | | 8.0 | 160 | 选修《跨文化交流与国际视野》《西方文化概论》《中国文化概论》和其他5门跨学科门类课程。 | | | | | | | | | | | | | |

# 机械电子工程专业国际学生本科指导性培养计划

表二

| 课程类别 | 课程性质 | 课程编号 | 课程名称 | 总学分 | 总学时(学周) | 理论授课学时 | 实践教学 | | | | 各学期学时（学周） | | | | | | | | 考核方式 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 实验学时 | 上机学时 | 实践学时 | 实践学周 | 一 | 二 | 三 | 四 | 五 | 六 | 七 | 八 | |
| 学科基础课程 | 必修课 | 202214 | 工程图学基础A | 3.0 | 48 | 48 | | | | | 48 | | | | | | | | 闭卷 |
| | | 202215 | 机械制图及CAD | 3.0 | 48 | 40 | | 8 | | | | 48 | | | | | | | 闭卷 |
| | | 209307 | 理论力学 | 4.5 | 72 | 72 | | | | | | | 72 | | | | | | 闭卷 |
| | | 209301 | 材料力学 | 4.5 | 72 | 64 | 8 | | | | | | | 72 | | | | | 闭卷 |
| | | 202107 | 机械原理 | 4.0 | 64 | 60 | 4 | | | | | | | 64 | | | | | 闭卷 |
| | | 202101 | 机械设计 | 4.0 | 64 | 58 | 6 | | | | | | | | 64 | | | | 闭卷 |
| | | 205162 | 电工技术 | 4.0 | 64 | 52 | 12 | | | | | | | 64 | | | | | 闭卷 |
| | | 205163 | 电子技术 | 4.0 | 64 | 52 | 12 | | | | | | | | 64 | | | | 闭卷 |
| | | 205141 | 微机原理与应用 | 4.0 | 64 | 52 | 12 | | | | | | | | | 64 | | | 闭卷 |
| | | 204111 | 液压流体力学 | 3.5 | 56 | 52 | 4 | | | | | | | | 56 | | | | 闭卷 |
| | | 304319 | 流体控制工程 | 3.5 | 56 | 56 | | | | | | | | | | 56 | | | 闭卷 |
| | | 209103 | 复变函数与积分变换 | 3.0 | 48 | 48 | | | | | | | 48 | | | | | | 闭卷 |
| | | 201312 | 工程材料 | 2.5 | 40 | 36 | 4 | | | | | | | | 40 | | | | 闭卷 |
| | | 202505 | 互换性与技术测量 | 2.0 | 32 | 28 | 4 | | | | | | | | 32 | | | | 闭卷 |
| | | 204321 | 流体控制工程实验 | 1.0 | 24 | | 24 | | | | | | | | | 24 | | | 综合测评 |
| | | 033110-1 | 金工实习A1-2 | 4.0 | 4周 | | | | | 4 | | 2周 | 2周 | | | | | | 综合测评 |
| | | 002203 | 机械工程综合测绘A | 2.0 | 2周 | | | | | 2 | | | | 2周 | | | | | 综合测评 |
| | | 002102 | 机械原理课程设计 | 2.0 | 2周 | | | | | 2 | | | | 2周 | | | | | 综合测评 |

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| 课程类别 | 课程性质 | 课程编号 | 课程名称 | 总学分 | 总学时(学周) | 理论授课学时 | 实践教学 | | | | 各学期学时（学周） | | | | | | | | 考核方式 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 实验学时 | 上机学时 | 实践学时 | 实践学周 | 一 | 二 | 三 | 四 | 五 | 六 | 七 | 八 | |
| | | 002108 | 机械设计课程设计 | 3.0 | 3 周 | | | | | 3 | | | | | 3周 | | | | 综合测评 |
| | | 209106 | 计算方法 | 2.0 | 32 | 24 | | 8 | | | | | | | 32 | | | | 闭卷 |
| | | 204204 | 热工基础 | 2.0 | 32 | 32 | | | | | | | | | 32 | | | | 闭卷 |
| | | 005109 | 微机原理及应用课程设计 | 2.0 | 2周 | | | | | 2 | | | | | | 2周 | | | 综合测评 |
| | | 小　　计 | | 67.5 | 880+13周 | 774 | 90 | 16 | | 13 | 48 | 48+2周 | 120+2周 | 200+4周 | 320+3周 | 144+2周 | | | |
| 专业课程 | 必修课 | 304239 | 液压元件 | 3.5 | 56 | 52 | 4 | | | | | | | | | 56 | | | 闭卷 |
| | | 304318 | 液压传动系统 | 2.5 | 40 | 36 | 4 | | | | | | | | | | 40 | | 闭卷 |
| | | 304307 | 气压传动与控制A | 2.5 | 40 | 38 | 2 | | | | | | | | | | 40 | | 闭卷 |
| | | 304326 | 液压控制系统 | 2.5 | 40 | 40 | | | | | | | | | | | 40 | | 闭卷 |
| | | 304311 | 液压系统测试与微机控制 | 2.0 | 32 | 32 | | | | | | | | | | | 32 | | 闭卷 |
| | | 304353 | 液压元件与系统制造工艺学 | 2.0 | 32 | 32 | | | | | | | | | | 32 | | | 综合测评 |
| | | 304262 | 专业导论 | 1.0 | 16 | 8 | | | 8 | | 16 | | | | | | | | 综合测评 |
| | | 004236 | 专业课程设计 | 4.0 | 4周 | | | | | 4 | | | | | | | 4周 | | 综合测评 |
| | | 004237 | 生产实习 | 2.0 | 2周 | | | | | 2 | | | | | | 2周 | | | 综合测评 |
| | | 004215 | 毕业设计与实践 | 15.0 | 15周 | | | | | 15 | | | | | | | | 15周 | 综合测评 |
| | | 小　　计 | | 37.0 | 256+21周 | 238 | 10 | | 8 | 21 | 16 | | | | | 88+2周 | 152+4周 | 15周 | |

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表二

| 课程类别 | 课程性质 | 课程编号 | 课程名称 | 总学分 | 总学时(学周) | 理论授课学时 | 实践教学 | | | | 各学期学时（学周） | | | | | | | | 考核方式 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 实验学时 | 上机学时 | 实践学时 | 实践学周 | 一 | 二 | 三 | 四 | 五 | 六 | 七 | 八 | |
| | 选修课 | 304354 | 液压技术进展 | 1.5 | 24 | 24 | | | | | | | | | | | 24 | | 综合测评 |
| | | 304252 | 新能源概论 | 2.0 | 32 | 32 | | | | | | | | | | | 32 | | 综合测评 |
| | | 小　　计 | | 3.5 | 56 | 56 | | | | | | | | | | | 56 | | |
| | | 至少选 1.5 学分，《液压技术进展》必选，《新能源概论》任选。 | | | | | | | | | | | | | | | | | |

# 机械电子工程专业国际学生本科指导性培养计划

表三

| 课程类别 | 课程性质 | 课程编号 | 课程名称 | 总学分 | 总学时 | 理论授课学时 | 实践教学 | | | | 各学期学时 | | | | | | | | 考核方式 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 实验学时 | 上机学时 | 实践学时 | 实践学周 | 一 | 二 | 三 | 四 | 五 | 六 | 七 | 八 | |
| 创新与创业教育 | 必修课 | Y10010 | 创新创业基础 | 1.0 | 32 | 20 | | | 12 | | | | 32 | | | | | | 综合测评 |
| | 选修课 | | 创新课程 | 1.0 | | | | | | | 至少选修 3.0 学分。<br>学生可在第3-7学期选修科研创新训练Ⅰ-Ⅴ五个阶段的部分训练。 | | | | | | | | 综合测评 |
| | | | 开放实验 | 1.0 | | | | | | | | | | | | | | | 综合测评 |
| | | | 科研创新训练Ⅰ | 0.5 | | | | | | | | | | | | | | | 综合测评 |
| | | | 科研创新训练Ⅱ | 0.5 | | | | | | | | | | | | | | | 综合测评 |
| | | | 科研创新训练Ⅲ | 0.5 | | | | | | | | | | | | | | | 综合测评 |
| | | | 科研创新训练Ⅳ | 0.5 | | | | | | | | | | | | | | | 综合测评 |
| | | | 科研创新训练Ⅴ | 0.5 | | | | | | | | | | | | | | | 综合测评 |
| | | | 创新创业项目 | 2.0 | | | | | | | 至少获得 2.0 学分，不占总学分 | | | | | | | | |
| 第二课堂 | | | | 2.0 | | | | | | | 至少获得 2.0 学分，不占总学分 | | | | | | | | |

# Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Mechatronic Engineering*

Table 1

| Course Category | Course type | Course code | Course name | Course credits | Hours (Weeks) | Theore-tical teaching hours | Experiment & Internship | | | | Semester hours(weeks) | | | | | | | | Assessment method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Experimental hours | Computer study hours | Field practice hours | Field practice weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| General and public courses | Compu-lsory | 112306-8 | Chinese Language 1-3 | 12.0 | 196 | 196 | | | | | 64 | 64 | 64 | | | | | | Test |
| | | 112309-10 | A Survey of China 1-2 | 4.0 | 64 | 64 | | | | | 32 | 32 | | | | | | | Test |
| | | 113101-4 | Physical Education 1-4 | 4.0 | 144 | 120 | | | 24 | | 36 | 36 | 36 | 36 | | | | | Comprehensive assessment |
| | | 109133-4 | Advanced MathematicsB1-2 | 11.0 | 176 | 176 | | | | | 80 | 96 | | | | | | | Test |
| | | 109115 | linear algebra | 2.0 | 32 | 32 | | | | | | 32 | | | | | | | Test |
| | | 109102 | Probability and mathematical statistics | 3.0 | 48 | 48 | | | | | | | 48 | | | | | | Test |
| | | 109211 | college physics B | 5.0 | 80 | 80 | | | | | | | 80 | | | | | | Test |
| | | 109208 | Physical Experiment of College | 1.5 | 36 | | 36 | | | | | | | 36 | | | | | Comprehensive assessment |
| | | 203104 | Engineering chemistry | 2.5 | 40 | 32 | 8 | | | | 40 | | | | | | | | Test |
| | | 116327 | Computer and C Programming Language Basis | 2.0 | 32 | 24 | | 8 | | | 40 | | | | | | | | Test |
| | | 116328 | Programming in C | 3.0 | 48 | 28 | | 20 | | | | 40 | | | | | | | Test |
| | | Exemption | | 14.0 | Military Training, Military theory, Ideological and moral cultivation and legal basis, The outline of modern Chinese history, The fundamental tenets of Marxism, An introduction to Mao Zedong thought and the theoretical system of socialism with Chinese characteristics, Situation and Policy. | | | | | | | | | | | | | | |
| | | Sub-total | | 50.0 | 896 | 800 | 44 | 28 | 24 | | 293 | 302 | 231 | 76 | | | | | |
| | Option-al | Select from the list of public optional courses | | 8.0 | 160 | Select <Cross-cultural Communication and International Vision> <An Introduction to Western Culture> <An Introduction to Chinese Culture> and other 5 interdisciplinary courses | | | | | | | | | | | | | |

# Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Mechatronic Engineering*

Table 2

| Course Category | Course type | Course code | Course name | Course credits | Hours (Weeks) | Theore-tical teaching hours | Experiment & Internship | | | | Semester hours(weeks) | | | | | | | | Assessment method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Experimental hours | Computer study hours | Field practice hours | Field practice weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Discipline Basic Courses | Compu-lsory | 202214 | Fundamentals of Engineering Graphics A | 3.0 | 48 | 48 | | | | | 48 | | | | | | | | Test |
| | | 202215 | Engine Drawing and CAD | 3.0 | 48 | 40 | | 8 | | | | 48 | | | | | | | Test |
| | | 209307 | Theoretical Mechanics | 4.5 | 72 | 72 | | | | | | | 72 | | | | | | Test |
| | | 209301 | Mechanics of Materials | 4.5 | 72 | 64 | 8 | | | | | | | 72 | | | | | Test |
| | | 202107 | Principle of Mechanics | 4.0 | 64 | 60 | 4 | | | | | | | 64 | | | | | Test |
| | | 202101 | Mechanical Design | 4.0 | 64 | 58 | 6 | | | | | | | | 64 | | | | Test |
| | | 205162 | Electrotechnical | 4.0 | 64 | 52 | 12 | | | | | | | 64 | | | | | Test |
| | | 205163 | Electronic technology | 4.0 | 64 | 52 | 12 | | | | | | | | 64 | | | | Test |
| | | 205141 | Microcomputer principle and application | 4.0 | 64 | 52 | 12 | | | | | | | | | 64 | | | Test |
| | | 204111 | Hydro-mechanics | 3.5 | 56 | 52 | 4 | | | | | | | | 56 | | | | Test |
| | | 304319 | Fluid Control Engineering | 3.5 | 56 | 56 | | | | | | | | | | 56 | | | Test |
| | | 209103 | Complex variable function and integral transformation | 3.0 | 48 | 48 | | | | | | | 48 | | | | | | Test |
| | | 201312 | Engineering Material | 2.5 | 40 | 36 | 4 | | | | | | | | 40 | | | | Test |
| | | 202505 | Elementary Technology of Exchangeability Measurement | 2.0 | 32 | 28 | 4 | | | | | | | | 32 | | | | Test |
| | | 204321 | Fluid control engineering experiment | 1.0 | 24 | | 24 | | | | | | | | | 24 | | | Comprehensive assessment |
| | | 033110-1 | Metalworking PracticeA1-2 | 4.0 | 4 | | | | | 4 | | 2 weeks | 2 weeks | | | | | | Comprehensive assessment |
| | | 002203 | Comprehensive Surveying of Mechanical Engineering A | 2.0 | 2 | | | | | 2 | | | | 2 weeks | | | | | Comprehensive assessment |
| | | 002102 | Course Exercise of Mechanical Principle | 2.0 | 2 | | | | | 2 | | | | 2 weeks | | | | | Comprehensive assessment |

# Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Mechatronic Engineering*

Table 2

| Course Category | Course type | Course code | Course name | Course credits | Hours (Weeks) | Theore-tical teaching hours | Experiment & Internship | | | | Semester hours(weeks) | | | | | | | | Assessment method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Experimental hours | Computer study hours | Field practice hours | Field practice weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | 002108 | Course Exercise in Mechanical Design | 3.0 | 3 | | | | | 3 | | | | | 3 weeks | | | | Comprehensive assessment |
| | | | Calculation method | 2.0 | 32 | 24 | | 8 | | | | | | | 32 | | | | Test |
| | | 204204 | Basis of Heat Engineering | 2.0 | 32 | 32 | | | | | | | | | 32 | | | | Test |
| | | 005109 | Microcomputer principle and application course design | 2.0 | 2 | | | | | 2 | | | | | | 2 weeks | | | Comprehensive assessment |
| | | Sub-total | | 67.5 | 880+13 weeks | 774 | 90 | 16 | | 13 | 48 | 48+2 weeks | 120+2 weeks | 200+4 weeks | 320+3 weeks | 144+2 weeks | | | |
| Special-ized Course | Compu-lsory | 304239 | Hydraulic Components | 3.5 | 56 | 52 | 4 | | | | | | | | | 56 | | | Test |
| | | 304318 | Hydraulic Transmission System | 2.5 | 40 | 36 | 4 | | | | | | | | | | 40 | | Test |
| | | 304307 | Pneumatic Transmission and control A | 2.5 | 40 | 38 | 2 | | | | | | | | | | 40 | | Test |
| | | 304326 | Hydraulic Control System | 2.5 | 40 | 40 | | | | | | | | | | | 40 | | Test |
| | | 304311 | Hydraulic system testing and microcomputer control | 2.0 | 32 | 32 | | | | | | | | | | | 32 | | Test |
| | | 304353 | Manufacturing Process of Hydraulic Components and System | 2.0 | 32 | 32 | | | | | | | | | | 32 | | | Comprehensive assessment |
| | | 304262 | Introduction of Major Courses | 1.0 | 16 | 8 | | | 8 | | 16 | | | | | | | | Comprehensive assessment |
| | | 004236 | Course Design for Specialty | 4.0 | 4 | | | | | 4 | | | | | | | 4 weeks | | Comprehensive assessment |
| | | 004237 | Practice on Fluid Power Components | 2.0 | 2 | | | | | 2 | | | | | | 2 weeks | | | Comprehensive assessment |
| | | 004215 | Graduation Project and Practice | 15.0 | 15 | | | | | 15 | | | | | | | | 15 weeks | Comprehensive assessment |

# Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Mechatronic Engineering*

Table 2

| Course Category | Course type | Course code | Course name | Course credits | Hours (Weeks) | Theore-tical teaching hours | Experiment & Internship | | | | Semester hours(weeks) | | | | | | | | Assessment method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Experimental hours | Computer study hours | Field practice hours | Field practice weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | Sub-total | | 37.0 | 256+21 weeks | 238 | 10 | | 8 | 21 | 16 | | | | | 88+2 weeks | 152+4 weeks | 15 weeks | |
| | Option-al | 304354 | Hydraulic Technique Progress | 1.5 | 24 | 24 | | | | | | | | | | | 24 | | Comprehensive assessment |
| | | 304252 | Introduction to New Energy | 2.0 | 32 | 32 | | | | | | | | | | | 32 | | Comprehensive assessment |
| | | Sub-total | | 2.0 | 32 | 32 | | | | | | | | | | | 56 | | |
| | | Choose at least 1.5 credits,Compulsory Course:《Hydraulic Technique Progress》,OptionalCourse:《Introduction to New Energy》. | | | | | | | | | | | | | | | | | |

# Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Mechatronic Engineering*

Table 3

| Course Category | Course type | Course code | Course name | Course credits | Hours (Weeks) | Theore-tical teaching hours | Experiment & Internship | | | | Semester hours(weeks) | | | | | | | | Assessment method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Experimental hours | Computer study hours | Field practice hours | Field practice weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Innovation and Entrepreneurship | Compu-lsory | Y10010 | Foundation of Innovation and Entrepreneurship | 1.0 | 32 | 20 | | | 12 | | | | 32 | | | | | | Comprehensive assessment |
| | Option-al | | Innovation Courses | 1.0 | | | | | | | Earn at least 3.0 credits.<br>Students can take part in part or all of Research Training Ⅰ-Ⅴ in semester 3-7. | | | | | | | | Comprehensive assessment |
| | | | Open Experiments | 1.0 | | | | | | | | | | | | | | | Comprehensive assessment |
| | | | Research Training Ⅰ | 0.5 | | | | | | | | | | | | | | | Comprehensive assessment |
| | | | Research Training Ⅱ | 0.5 | | | | | | | | | | | | | | | Comprehensive assessment |
| | | | Research Training Ⅲ | 0.5 | | | | | | | | | | | | | | | Comprehensive assessment |
| | | | Research Training Ⅳ | 0.5 | | | | | | | | | | | | | | | Comprehensive assessment |
| | | | Research Training Ⅴ | 0.5 | | | | | | | | | | | | | | | Comprehensive assessment |
| | | | Innovation and Entrepreneurship Projects | 2.0 | | | | | | | Earn at least 2.0 credits. BUT those credits are not included in the graduation credits. | | | | | | | | |
| Second Classroom Activities | | | | 2.0 | | | | | | | Earn at least 2.0 credits. BUT those credits are not included in the graduation credits. | | | | | | | | |