

土木工程专业本科联合培养课程设置及培养计划一览表 Joint Undergraduate Program of Civil Engineering

| 学年Year | 学期Term | 课程类别Course Type | 课程名称Course Name | 引进或共建的澳方课程名称UniSA Course Name | 冲抵澳方课程名称UniSA Course Name | 外方课程代码UniSA Course Code | 中方课程代码XAUAT Course Code | 学分Credit | 学时(Teaching Hour) | | | 考核方式Assessment | 授课语言Teaching Language | 课程性质Character |
|--------------------|--|---|---|-------------------------------|---------------------------|-------------------------|-------------------------|----------|-------------------|----------|------------|--------------------|-----------------------|---------------|
| | | | | | | | | | 总学时Total | 理论Theory | 实践Practice | | | |
| 第一学年 First Year | 1 | 实践教学 Practice | 军事训练(含军事理论) Military Traininng | | | | 115001 | 3.0 | 2K | 0 | 2K | 考查 Non-Exam | 中文Chinese | |
| | | 通识必修课 Compulsory General Courses | 思想道德修养与法律 Ideological and Moral Recreation and Legal Basis | | | | 111006 | 3.0 | 48 | 48 | 0 | 考试 Exam | 中文Chinese | |
| | | 形势与政策1 Situation and Policy I | | | | 111240 | 0.5 | 8 | 8 | 0 | 考试 Exam | 中文Chinese | | |
| | | 大学体育1 Physical Education I | | | | 113107 | 1.0 | 36 | 32 | 4 | 考试 Exam | 中文Chinese | | |
| | | 学术英语1 | | | EAP1 | 316067 | 3.0 | 150 | 150 | 0 | 考试 Exam | 英文English | | |
| | | 大学计算机基础 Computer Basis | | Computer Techniques | | 106233 | 2.0 | 32 | 24 | 8 | 考试 Exam | 中文Chinese | | |
| | | 大学化学+大学化学实验 College Chemistry+ Experiment of College Chemistry | | Water Chemistry | | 110109 | 3.5 | 56 | 40 | 16 | 考试 Exam | 中文Chinese | | |
| | | 高等数学 I 1 Advanced Mathematics I 1 | | Mathematical Methods for | | 110035 | 5.5 | 88 | 88 | 0 | 考试 Exam | 中文Chinese | | |
| | | 工程制图基础 Fundamentals of Engineering Drawing | | | | 110238 | 3.5 | 56 | 48 | 8 | 考试 Exam | 中文Chinese | | |
| | 专业核心课 Compulsory Professional Courses | 土木工程概论 Introduction to Civil Engineering | | | | 102034 | 1.0 | 16 | 16 | 0 | 考试 Exam | 双语 Bilingualism | | |
| 2 | 通识必修课 Compulsory General Courses | 中国近现代史纲要 Outline of Chinese Modern History | | | | 111001 | 3.0 | 48 | 32 | 16 | 考试 Exam | 中文Chinese | | |

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| | | | | | | | | | 总学时Total | 理论Theory | 实践Practice | | | |
| 第一学年 First Year | 2 | | 大学体育2 Physical Education II | | | | 113108 | 1.0 | 36 | 32 | 4 | 考试Exam | 中文Chinese | |
| | | | 简明物理基础 | | | | 110348 | 4.5 | 72 | 60 | 12 | 考试Exam | 双语Bilingualism | |
| | | | 学术英语2 | | | EAP2 | 316019 | 3.0 | 150 | 150 | 0 | 考试Exam | 英文English | |
| | | | 高等数学 I 2 Advanced Mathematics I 2 | | Mathematical Methods for | | 110036 | 6.0 | 96 | 96 | 0 | 考试Exam | 中文Chinese | |
| | | 专业核心课 Compulsory Professional Courses | 土木工程实践与创新 Engineering Design and Innovation | Civil Engineering Design and | | ENGG1004 | 316072 | 1.0 | 40 | 16 | 24 (T) | 考试Exam | 英文English | 引进课程 (Import Course) |
| | | 理论力学Theoretical Mechanics | | Engineering Mechanics | | 110236 | 4.0 | 64 | 64 | 0 | 考试Exam | 中文Chinese | | |
| | | 土木工程制图Civil Engineering Drawing | | Civil Engineering Practice | | 110240 | 3.0 | 48 | 32 | 16 | 考试Exam | 中文Chinese | | |
| 工程测量III Engineering Survey III | | Geospatial Science for Engineers | | 101567 | 2.0 | 48 | 32 | 16 | 考试Exam | 双语Bilingualism | | | | |
| 第二学年 Second Year | 3 | 实践教学 Practice | 土木工程材料实验 Experiment of Engineering Materials | | | | 105238 | 1.0 | 16 | 0 | 16 (P) | 实践Practice | 中文Chinese | |
| | | | 工程地质实习 Engineering Geology | | | | 102181 | 1.0 | 16 | 0 | 16 | 考查Non- | 英文English | |
| | | 通识必修课 Compulsory General Courses | 马克思主义基本原理 Basic Principle of Marxism | | | | 111003 | 4.0 | 64 | 48 | 16 | 考试Exam | 中文Chinese | |
| | | | 形势与政策2 Situation and Policy II | | | | 111241 | 0.5 | 8 | 8 | 0 | 考试Exam | 中文Chinese | |
| | | | 学术英语3 | | | EAP3 | 316020 | 2.5 | 120 | 120 | 0 | 考试Exam | 英文English | |
| | | | 大学体育3 Physical Education III | | | | 113109 | 1.0 | 36 | 32 | 4 | 考试Exam | 中文Chinese | |
| | | | 概率论与数理统计+线性代数 Probability and Mathematical Statistics+Linear Algebra | | | | | 4.0 | 64 | 64 | 0 | 考试Exam | 中文Chinese | |

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| 第二学年 Second Year | 3 | 专业核心课 Compulsory Professional Courses | 材料力学 Mechanics of Materials | | Mechanics of Materials | | 110237 | 5.5 | 88 | 78 | 10 (P) | 考试 Exam | 中文Chinese | |
| | | | 土木工程材料 Engineering Materials | Engineering | | RENG1005 | 316015 | 2.0 | 47 | 32 | 13 (T) 2 (P) | 考试 Exam | 双语 Bilingualism | 共建课程 (J.C.) |
| | | | 水工程概论 Introduction to Water Engineering | Introduction to Water | | CIVE2010 | 316009 | 3.0 | 72 | 24 | 24 (T) 24 (P) | 考试 Exam | 英文English | 引进课程 (I.C.) |
| | | | 土力学Soil Mechanics | Soil Mechanics | | CIVE2005 | 316011 | 3.0 | 72 | 48 | 24 (P) | 考试 Exam | 英文English | 引进课程 (I.C.) |
| | 4 | 通识必修课 Compulsory General Courses | 毛泽东思想和中国特色社会主义理论体系概论 Introduction to Mao Zedong Thought and Theoretical System of Socialism with Chinese Characteristics | | | | 111002 | 4.0 | 64 | 48 | 16 | 考试 Exam | 中文Chinese | |
| | | | 大学体育4Physical Education IV | | | | 113110 | 1.0 | 36 | 32 | 4 | 考试 Exam | 中文Chinese | |
| | | | 学术英语4 | | | EAP4 | 316021 | 2.5 | 120 | 120 | 0 | 考试 Exam | 英文English | |
| | | 专业核心课 Compulsory Professional Courses | 流体力学Fluid Mechanics (Hydraulics and Hydrology) | Hydraulics and Hydrology | | CIVE3009 | 316012 | 2.5 | 68 | 32 | 24 (T) 12 (P) | 考试 Exam | 英文English | 引进课程 (I.C.) |
| | | | 房屋建筑学III Building Construction III | | | | 101568 | 4.0 | 64 | 48 | 16 (P) | 考试 Exam | 中文Chinese | |
| | | | 可持续工程实践 Sustainable Engineering Practice | Sustainable Engineering | | ENGG1003 | 316007 | 1.0 | 40 | 16 | 24 (T) | 考试 Exam | 英文English | 引进课程 (I.C.) |
| 第三学年 Third Year | 5 | 通识必修课 Compulsory General Courses | 形势与政策3 Situation and Policy III | | | | 111242 | 0.5 | 8 | 8 | 0 | 考试 Exam | 中文Chinese | |
| | | 专业核心课 Compulsory Professional Courses | 地质工程Geotechnical Engineering | Geotechnical Engineering | | CIVE3008 | 316014 | 2.5 | 64 | 40 | 24 (T) | 考试 Exam | 英文English | 引进课程 (I.C.) |

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| | | | | | | | | | 总学时Total | 理论Theory | 实践Practice | | | | |
| 第三学年 Third Year | 5 | | 混凝土结构设计原理 Principle of Concrete Structure Design | Reinforced Concrete Design | | CIVE3003 | 316018 | 4.0 | 64 | 64 | 0 | 考试Exam | 双语Bilingualism | 共建课程(J.C.) | |
| | | | 钢结构设计原理 Principle of Steel Structure Design | Steel and Timber Design | | CIVE3013 | 316017 | 3.0 | 48 | 48 | 0 | 考试Exam | 双语Bilingualism | 共建课程(J.C.) | |
| | | | 结构力学I Structure Mechanics I | Structural analysis | | CIVE3011 | 102008 | 4.0 | 64.0 | 64.0 | 0.0 | 考试Exam | 双语Bilingualism | 共建课程(J.C.) | |
| | | | 荷载效应与设计方法 Load Effect and Design Methods | | | | | 4.5 | 72 | 72 | 0 | 考试Exam | 双语Bilingualism | | |
| | | 专业选修课 Elective Professional Courses | 土木工程施工 Civil Engineering Construction | | | | 102088 | 4.0 | 64 | 64 | 0 | 考试Exam | 中文Chinese | | |
| | | 计算机辅助设计 Computer Assistant Design | | Engineering Modelling | | | 102003 | 2.0 | 48 | 32 | 16 | 考试Exam | 中文Chinese | | |
| | | 工程经济与项目管理 Engineering Economics and Project | | | | | 102084 | 2.5 | 40 | 40 | 0 | 考试Exam | 双语Bilingualism | | |
| | 建设法规 Construction Law and Regulation | | | | | 102085 | 2.0 | 32 | 32 | 0 | 考试Exam | 中文Chinese | | | |
| | 6 | 实践教学 Practice | 混凝土楼盖课程设计 Course Design of Concrete Floor | | | | 14 | 2.0 | 2K | 0 | 2K | 报告Report | 中文Chinese | | |
| | | 专业核心课 Compulsory Professional Courses | 工程与环境地质学 Engineering and Environmental Geology | Engineering and Environmental | | | EART3012 | 316010 | 2.0 | 48 | 24 | 24 (P) | 考试Exam | 英文English | 引进课程(I.C.) |
| | | 钢结构设计+认识实习 Steel Structure Design +Cognition | | | | | 102015 | 3.0 | 48 | 40 | 8 (P) | 考试Exam | 中文Chinese | | |
| | | 结构力学2 Structure Mechanics II | | | | | 102009 | 2.0 | 32 | 32 | 0 | 考试Exam | 中文Chinese | | |
| 混凝土结构设计+认识实习 Concrete Structure Design +Cognition Practice | | | | | | 102025 | 3.0 | 48 | 40 | 8 (P) | 考试Exam | 中文Chinese | | | |

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|--|-------------------------------|--|--|-------------------------------|-----------------------------------|-------------------------|-------------------------|----------|-------------------|----------|----------------|-------------------------|-----------------------|-------------------------|
| | | | | | | | | | 总学时Total | 理论Theory | 实践Practice | | | |
| 第三学年 Third Year | 6 | | 结构试验与检测加固 Structural Experiment, Inspection and Rehabilitation (Experimental and Detection Techniques in Civil Engineering) | | | | 102031 | 2.5 | 40 | 28 | 12 (P) | 考试Exam | 中文Chinese | |
| | | 专业选修课 Elective Professional Courses | 基础工程Foundation Engineering | | Advanced Geotechnical Engineering | | 102041 | 2.0 | 32 | 32 | 0 | 考试Exam | 双语Bilingualism | 澳方选修课 UniSA Elective |
| | | | 预应力混凝土结构设计原理 Prestressed Concrete Design | | Prestressed Concrete Design | | 102164 | 1.5 | 24 | 24 | 0 | 考试Exam | 双语Bilingualism | 澳方选修课 UniSA Elective |
| 第四学年 Forth Year | 7 | 实践教学 Practice | 生产实习Production Practice | | Construction on Site | | 102152 | 6.0 | 4K | 0 | 4K | 报告Report | 中文Chinese | 澳方选修课 UniSA Elective |
| | | | 单层厂房课程设计 Course Design of Single-Storey Factory | | | | 15 | 2.0 | 2K | 0 | 2K | 报告Report | 中文Chinese | |
| | | | 基础工程课程设计 Course Design of Basic Construction | | Research Theory and Practice | | 18 | 1.0 | 1K | 0 | 1K | 报告Report | 中文Chinese | |
| | | | 钢屋架课程设计 Course Design of Steel Roof Truss | | | | 16 | 1.5 | 1.5K | 0 | 1.5K | 报告Report | 中文Chinese | |
| | | | 施工技术课程设计 Course Design of Construction | | Construction on site澳方选修课 | | 12 | 1.0 | 1K | 0 | 1K | 报告Report | 中文Chinese | |
| | | | 施工组织课程设计 Course Design of Construction | | | | 13 | 1.0 | 1K | 0 | 1K | 报告Report | 中文Chinese | |
| | | 通识必修课 Compulsory General Courses | 形势与政策4 Situation and Policy IV | | | | 111243 | 0.5 | 8 | 8 | 0 | 考试Exam | 中文Chinese | |
| 专业核心课 Compulsory Professional Courses | 工程结构抗震 Design of Buildings | | Earthquake and Masonry Engineering | | 102023 | 2.0 | 32 | 32 | 0 | 考试Exam | 双语Bilingualism | 澳方选修课 UniSA Elective | | |

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|--|--|---|--|-------------------------------|--------------------------------|-------------------------|-------------------------|----------|-------------------|----------|------------|----------------|-----------------------|----------------------------|
| | | | | | | | | | 总学时Total | 理论Theory | 实践Practice | | | |
| 第四学 年Forth Year | 7 | 专业选修课 Elective Professional Courses | 钢结构稳定Stability of Steel Structure | | Cold-formed Steel Design | | 102017 | 2.0 | 32 | 32 | 0 | 考试 Exam | 双语 Bilingualism | 澳方选修课 UniSA Elective |
| | | | 钢与混凝土组合结构 Steel-Concrete Composite Structure | | | | 102021 | 1.5 | 24 | 24 | 0 | 考试 Exam | 中文Chinese | |
| | | | 高层建筑结构设计 Structure Design of High-Rise Buildings | | | | 102022 | 2.0 | 32 | 32 | 0 | 考试 Exam | 双语 Bilingualism | |
| | 专业选修课 Elective Professional Courses | 工程企业管理 Construction Business Management | Constructi on Business Managemen | | | BUIL4012 | 316032 | 2.0 | 32 | 32 | 0 | 考试 Exam | 双语 Bilingualism | 共建课程 (J. C.) |
| | | Research Theory and Practice | Research Theory and Practice | | | ENGG4005 | 316069 | 2.0 | 32 | 16 | 16 | 报告 Report | 英文English | 引进课程 (I. C.) |
| | 8 | 实践教学 Practice | 毕业实习Graduation practice | | Industrial Experience | | | 102148 | 2.0 | 2K | 0 | 2K | 报告 Report | 中文Chinese |
| 毕业设计(毕业论文) Graduation Design(Graduation Thesis) | | | | | | | | 14 | 14K | 0 | 14K | 报告 Report | 中文Chinese | |

关于通识选修课的要求说明: Request for Elective General Courses:

必修学分164学分, 选修学分要求至少满足6.5学分(共计13.5学分), 总学分170.5学分。

The total credits amount to 170.5, including 164 credits of compulsory courses and no less than 6.5 elective credits.

需要选够4门澳方选修课程, 方可申请澳方学位。

If students want to apply for UniSA degrees, they should select more than 4 UniSA elective courses.

备注: Notes:

1. 专业全部课程65门(包含实践教学课程14门), 引进澳方课程17门, 占专业全部课程的26.2%; (其中: 四个学期的英语课共540学时, 合计11学分, 视为四门非核心类引进课程)。

The total amount of courses is 65, including 17 imported UniSA courses that account for 26.2% of all courses. (The total English study amount to 540 hours and 11 credits.)

注: 扣除14门实践教学课程, 专业全部课程51门, 引进澳方课程17门, 占专业全部课程的33.3%。

2. 专业核心课程23门, 澳方教师担任专业核心课程门数13门(含引进共建课程5门), 占专业核心课程的56.5%;

The total amount of core courses is 22, including 13 courses taught by UniSA teachers that account for 59.1% of all courses.

3. 专业核心课程总计65.5学分, 引进澳方专业核心课程30.5学分(含引进共建课程14学分), 占专业核心课程的46.6%;

The total credits amount of core courses is 65.5, including 30.5 courses taught by UniSA teachers that account for 46.6% of all courses

4. 专业全部教学学时数3527学时, 澳方教学学时数1231学时(含英语和共建课程5门), 占专业全部教学时数的34.9%;

The total amount of teaching hours is 3527, including 1231 hours taught by UniSA teachers that account for 34.9% of all hours.

5. 实践教学学时数977学时, 占专业全部教学时数的27.7%。

The total amount of practice hours is 977 that account for 27.7% of all hours.

6. 1K表示1周, 记为16学时。

1K means 1 week, recorded as 16 hours.

* 中方课程代码为纯数字, 引进的澳方课程代码带英文前缀。XAUAT courses are coded by numbers, and imported UniSA courses are coded with English prefix.