# 土木工程本科专业培养方案

## 一、培养目标

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## 二、毕业要求

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## 三、主干学科

## 四、专业核心课程

## 五、主要实践环节

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## 六、学制、学位及毕业学分要求

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## 七、毕业要求对培养目标的支撑矩阵

(　　1)

## 八、毕业要求达成矩阵

(　　2)

## 九、专业课程设置与教学进程计划表

(　　3)

## 十、课程学分、学时分布情况表

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## 十一、辅修课程设置一览表

## 十二、课程地图

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| | | | 1.1 | 1.2 | 1.3 | 1.4 | 2.1 | 2.2 | 2.3 | 2.4 | 3.1 | 3.2 | 3.3 | 3.4 | 4.1 | 4.2 | 4.3 | 5.1 | 5.2 | 5.3 | 6.1 | 6.2 | 7.1 | 7.2 | 8.1 | 8.2 | 9.1 | 9.2 | 9.3 | 10.1 | 10.2 | 10.3 | 11.1 | 11.2 | 12.1 | 12.2 |
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| 2 | | A | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | A | | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | H | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | D | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | H | | | | | | | | | | | | | | | | | | H | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | H | H | | | | | | | | H | | | | |
| 9 | | | | | | | | | | | | | | | | H | | H | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | H | | | | | | | | | | | | H | | | | | | |
| 11 | | VB | | | | | | | | | | | | | | | | H | | | | | | | | | | | | | | | | | | |
| 12 | | | H | | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | H | | H | | | | | | | | | | H | | | | | | | | | | | | | | | | | | | | | |
| 14 | | 1 | | H | | | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | 2 | | | H | | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | H | | | | | | | | | | | H | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | H | H | | | | | | | | | | H | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | H | H | | | H | H | | | | | | | | H | | | | | H | | | | | | | | | | |
| 19 | | | | H | | | | | | | | H | | | | | | | | | | | | | | | | | | | | | | | | |

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| 20 | | | | | | H | H | | | | H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | H | H | | | | H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | H | H | | H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | BIM | | | | | | | | | | | | | | | | H | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | H | | | H | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | H | H | | | H | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | H | H | | | H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | H | | | H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | H | | H | | H | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | H | | | | | | | | | | | | | | | | | | | | | | H | | |
| 30 | | | | | | | | | | | | | | | | | | | H | | | | | | | | | | | | | | | H | | |
| 31 | | | | | | | | | | | | | | | | | | H | H | | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | | | | | | | H | | H | | | | | | | | | | | | |
| 33 | | | | | | | | H | H | | | | | | | | | | | | | | | | | | | | | | | | H | | | H |
| 34 | | | | | | | | H | | | H | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | | 1 | | | | | | H | | | | H | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | | 2 | | | | | | | H | | | | | | | | | | | | | | | H | | | | | | | | | | | | |
| 37 | | | | | | | H | | | | H | H | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | | | | H | | | | | | | | | | | | | | | H | | |
| 39 | | | | | | | | | | | | | H | | | | | | | | | | | | | | | | | | | | | H | | |

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| 43 | | | | | | | | | | | | | | | | | | | | | | | H | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | H | | | |
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| 46 | | | | | | | | | | | | | | | | | | | | | | | | | H | | | | | | | | | | |
| 47 | | | | | | | | | | | | | | | | | | | | | | | | | H | | | | | | | | | | |
| 48 | | | | | | | | | | | | | | | | | | | | | | | | | H | | | | | | | | | | |
| 49 | | | | | | | | | | | | | | | | | | | | | | | | | H | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | | | | | | | H | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | | | | | | | | | | | H | | | | | | | | | |
| 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | H | |
| 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | H | | | | | | | | |
| 54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | H | | | | | |

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| 55 | | | | | | | | | | | | | | | | | | | | | | H | | H | H | | | | | | | H | | | | H | |
| 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | H | | | | | | | | | |
| 57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | H | | | | | | | | | |
| 58 | | B | | | | | | | | | | | | | | | H | | | | | | | | | | | H | | | | | | | | | |
| 59 | | | | | | | | | | | | | | | | H | | | | | | | | | | | | | | | | | | | | | |
| 60 | | C | | | | | | | | | | | | | | H | | | | | | | | | | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | | | | | | H | | | | | | | | | | | | | H | | | | | | | |
| 62 | | | | | | | | | | | | | | | | | H | | | H | | | | | | | | | H | | H | | | | | | |
| 63 | | | | | | | | | | | | | | | | | | | H | | | | | | | | | | H | | | | | | | | |
| 64 | | | | | | | | | | | | | | | | | | | H | | | | | | | | | | H | | | | | | | | |
| 65 | | | | | | | | | | | | | | | | | | | | | H | H | | | | | | | | | H | | | | | | |
| 66 | | | | | | | | | | | | | | | | | | | | H | | H | | | | H | | H | | H | | | | | H | | |
| 67 | | | | | | | | | | | | | | | | | | | | H | | H | | H | | | H | | | H | | | | | | | |
| 68 | | ( ) | | | | | | | | H | | | | H | H | | H | | | H | | H | | | | | | | | | H | | | H | | H |
| 69 | | | | | | | | | | H | | | | H | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | H | | H | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | | | H | H | | | | | | | | | | | | | | | | | | | | | | |

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| 72 | | | | | | | | | | | | | | H | H | | | | | | | | | | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | | H | H | H | | | | | | | | | | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | | H | | | | | | | | | | | | | | | | | | | | | H | | | |
| 75 | | | | | | | | | | H | | | | H | | | | | | | | | | | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | H | | H | | | | | | | | | | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | | H | H | | | | | | | | | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | | H | H | | | | | | | | | | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | | H | H | H | | | | | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | H | | | | | | | | | | | | | | | | | | | | | H | | | |
| 81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | H |
| 82 | | | | | | | | | M | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83 | | | | | | | | | | | | | | | | | | M | | | | | | | | | | | | L | | | | | | |
| 84 | | | | | | | | | | | | | | | | | | L | | | | | | | | | | | | | | | | | | |
| 85 | | | | | | M | | | | | | | | | | | | | M | | | | | | | | | | | | | | | | | | |
| 86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | M | | | L |
| 87 | | | | | | M | | | | | | | | | | | | | | M | | | | | | | | | | | | | | | | |
| 88 | | | | | | | | | | | | | | M | | | | | | | | | | | | | M | | | | | | | | | |
| 89 | | | | | | | | | | | | | | M | | | | | | | | | | | | | L | | | | | | | | | |

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| 90 | | | | | | | | | | | | | | | | | | | | | | | | M | | | | | | | | | | | | | |
| 91 | | | | | | M | | | | | | | | | | | | | | | | | | M | | | | | | | | | | | | | |
| 92 | | | | | | | | | | | | | | L | | | | | | | | | | | | | | | | | | | | | | | |
| 93 | | | | | | M | | | | | | L | | | | | | | | | | | | | | | | | | | | | | | | | |
| 94 | | | | | | | | | | | | M | | | | | | | | | | | | M | | | | | | | | | | | | | |
| 95 | | | | | | M | | | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 96 | | | | | | | | | | | | | | | | M | | | | | | | | | | | | | | | | | | | | | |
| 97 | | | | | | L | | | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 学时分配 | 各学期周学时数 | | | | | | | |
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| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

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| | | 37 | 592 | 568 | 24 | 14 | 15 | 6 | 0 | 2 | 0 | 0 | 0 | |
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| 课程类别 | | 课程编号 | 课程名称 | 学分 | 课内学时 | 学时分配 | | 各学期周学时数 | | | | | | | | 备注 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 讲课 | 实践 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | | | | | | | 16 | 16 | 16 | 16 | 16 | 16 | | | |
| | | 03110490 | Civil Engineering Drawing | 2.5 | 40 | 40 | | 2.5 | | | | | | | | |
| | | 03110010 | ▲ Introduction of Civil Engineering | 1 | 16 | 16 | | 1 | | | | | | | | |
| | | 03110510 | Theoretical Mechanics | 4 | 64 | 64 | | | 4 | | | | | | | |
| | | 03110540 | Civil Engineering Materials | 2 | 32 | 32 | | | 2 | | | | | | | |
| | | 03110520 | Material Mechanics | 4 | 64 | 56 | 8 | | | 4 | | | | | | |
| | | 03110590 | ★ Engineering Geology | 2 | 32 | 32 | | | | 2 | | | | | | |
| | | 03110550 | 1 Structural Mechanics 1 | 3 | 48 | 48 | | | | | 3 | | | | | |
| | | 03110470 | Fluid Mechanics | 2 | 32 | 28 | 4 | | | | 2 | | | | | |
| | | 03110082 | Soil Mechanics | 2 | 40 | 32 | 8 | | | | 2 | | | | | |
| | | 03110800 | Engineering Surveying | 2.5 | 48 | 32 | 16 | | | | 3 | | | | | |
| | | 03110560 | 2 Structural Mechanics 2 | 2 | 32 | 32 | | | | | | 2 | | | | |
| | | | | 27 | 448 | 412 | 36 | 3.5 | 6 | 6 | 10 | 2 | 0 | 0 | 0 | |
| | | 03120310 | Construction Engineering Cost | 2 | 32 | 32 | | | | | | 2 | | | | ≥4 |
| | | 03170020 | | 1.5 | 32 | 24 | 8 | | | | | 2 | | | | |
| | | 03170110 | Elastic Mechanics and Finite Element Method | 2 | 32 | 32 | | | | | | 2 | | | | |
| | | 03170061 | Rock mechanics | 2 | 32 | 32 | | | | | | 2 | | | | |
| | | 31210030 | Foundation of Computer Culture | 1 | 16 | 16 | | | | | | 1 | | | | |
| | | | | 4 | 64 | 56 | 8 | | | | | 4 | | | | |
| | | 03110580 | Design principle of engineering load and reliability | 1.5 | 24 | 24 | | | | | 1.5 | | | | | |

| 课程类别 | 课程编号 | 课程名称 | 学分 | 课内学时 | 学时分配 | | 各学期周学时数 | | | | | | | | 备注 |
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| | | | | | 讲课 | 实践 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | | | | | | 16 | 16 | 16 | 16 | 16 | 16 | | | |
| | 03110062 | Principles of Concrete Structures | 4 | 64 | 60 | 4 | | | | | 4 | | | | |
| | 03110600 | Principles of Steel Structures | 3 | 48 | 48 | | | | | | 3 | | | | |
| | 03110125 | Foundation Engineering | 2 | 32 | 32 | | | | | | 2 | | | | |
| | 03110121 | Construction Technology | 3 | 48 | 48 | | | | | | | 3 | | | |
| | 03110610 | ( ) Engineering Project Management | 2 | 32 | 32 | | | | | | | 2 | | | |
| | | | 15.5 | 248 | 244 | 4 | 0 | 0 | 0 | 1.5 | 9 | 5 | 0 | 0 | |
| | 03110620 | Building Construction | 2.5 | 40 | 40 | | | | | | 2.5 | | | | |
| | 03110500 | Design of Concrete Structure | 4 | 64 | 64 | | | | | | | 4 | | | |
| | 03110630 | Earthquake resistance of engineering structure | 1.5 | 24 | 24 | | | | | | | 1.5 | | | |
| | 03110640 | High-rise structure design | 1.5 | 24 | 24 | | | | | | | 1.5 | | | |
| | 03110650 | Design of Steel Structure | 2 | 32 | 32 | | | | | | | 2 | | | |
| | 03110671 | Construction Engineering Cost | 1.5 | 24 | 24 | | | | | | | 1.5 | | | |
| | 03110680 | Road Survey and Design | 2.5 | 40 | 40 | | | | | | 2.5 | | | | |
| | 03170200 | Tunnel Engineering | 2 | 32 | 32 | | | | | | | 2 | | | |
| | 03110141 | ▲ 1 Bridge Engineering 1 | 4 | 64 | 64 | | | | | | | 4 | | | |
| | 03110690 | Subgrade and Pavement Engineering | 3 | 48 | 40 | 8 | | | | | | 3 | | | |
| | 03110551 | Road and Bridge Engineering Cost | 1.5 | 24 | 24 | | | | | | | 1.5 | | | |
| | 03110700 | ▲ 2 Bridge Steel Structure Design 2 | 2 | 32 | 32 | | | | | | | | 4 | | 8 |

| 课程类别 | | 课程编号 | 课程名称 | 学分 | 课内学时 | 学时分配 | | 各学期周学时数 | | | | | | | | 备注 | |
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| | | | | | | 讲课 | 实践 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| | | | | | | | | 16 | 16 | 16 | 16 | 16 | 16 | | | | |
| | | 03170010 | Building and Construction Equipment | 2 | 32 | 32 | | | | | | 2 | | | | | ≥5 |
| | | 03180260 | Hydrology for bridge and culvert | 1 | 16 | 16 | | | | | | 1 | | | | | |
| | | 03180191 | Deep Foundation Pit Engineering | 1.5 | 24 | 24 | | | | | | | | 4 | | 6 | |
| | | 03110670 | Construction Organization | 1.5 | 24 | 24 | | | | | | | 1.5 | | | | |
| | | 03180131 | Road and Bridge Construction Organization | 1.5 | 24 | 24 | | | | | | | 1.5 | | | | |
| | | 03180210 | Road and Bridge Engineering Testing | 1.5 | 24 | 24 | | | | | | | | 4 | | 6 | |
| | | 03180270 | BIM Principle and application of BIM | 1.5 | 32 | 16 | 16 | | | | | | | 4 | | 6 | |
| | | 03180310 | ▲ Analysis and Treatment of Engineering Accident | 1.5 | 24 | | | | | | | | | 4 | | 6 | |
| | | 03180311 | Professional English | 1.5 | 24 | | | | | | | | | 4 | | 6 | |
| | | 03180091 | Retaining Structure | 2 | 32 | 32 | | | | | | | 2 | | | | |
| | | 03180341 | Technology on Structural Reinforcement | 1.5 | 24 | | | | | | | | | 4 | | 6 | |
| | | 03180351 | Construction Laws and Regulation | 2 | 24 | | | | | | | | | 4 | | 6 | |
| | | 03180361 | Engineering Construction Supervision | 1.5 | 24 | | | | | | | | | 4 | | 6 | |
| | | 03180271 | Earthquake Resistance and Wind Resistance on Bridge | 1.5 | 24 | | | | | | | | | 4 | | 6 | |
| | | 03180371 | Prefabricated Construction Technology | 1.5 | 24 | | | | | | | | | 4 | | 6 | |

| 课程类别 | | 课程编号 | 课程名称 | 学分 | 课内学时 | 学时分配 | | 各学期周学时数 | | | | | | | | 备注 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 讲课 | 实践 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| | | | | | | | | 16 | 16 | 16 | 16 | 16 | 16 | | | | |
| | | 03180391 | Literature Retrieval and Scientific Paper Writing | 1.5 | 24 | 16 | 8 | | | | | | | 4 | | 6 | |
| | | | | 18 | 288 | 288 | 0 | | 0 | 0 | 0 | 4.5 | 12 | 16 | 0 | | |
| | | | | 135.5 | 2264 | 2040 | 224 | 23 | 26.5 | 22.5 | 20 | 23 | 20.5 | 18 | 0 | | |

1. 4 2. ▲

3. ★ 4.*

## 3.2

| | 课程编号 | 实践教学项目 | 学分 | 学时 | 周数 | 学期 | 起止周 | 场所 | 备注 |
|---|---|---|---|---|---|---|---|---|---|
| 03150540 | 52110040 | Military Training | 2 | / | 2 | 1 | -- | | |
| | 32110080 | Practical Course for Ideological and Political Theory Course | 2 | / | 2 | | -- | | |
| | 10130041 | Experiments of Chemistry | 0.5 | 16 | / | 1 | | | 1×16 |
| | 03180020 | Understanding Practice | 1 | / | 1 | 2 | 19 | | |
| | 10130031 | College Physics Experiment C | 1 | 32 | / | 2 | | | 2×16 |
| | 03150031 | Civil Engineering Materials Experiment | 0.5 | 16 | / | 2 | | | 2×8 |
| | 03170511 | Civil Engineering graphics Identification | 1.5 | 32 | / | 2 | | | 2×16 |
| | 58100020 | Training of Engineering B （Labour Education） | 1 | / | 1 | 3 | -- | | |
| | 03150070 | Geological Practice | 1 | / | 1 | 3 | 19 | | |
| | 03150020 | Surveying Practice | 2 | / | 2 | 4 | 18-19 | | |
| | 03150540 | Course Design of House Architecture | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 03150120 | Course Design of Roadbed and Pavement Engineering | 1 | / | 1 | 5 | 19 | | |
| | 03150160 | Course Design of Bridge Engineering | 2 | / | 2 | 6 | 18-19 | | |
| | 03150080 | Course Design of Foundation Engineering | 1 | | 1 | 7 | 9 | | |
| | 03150520 | Course Design of Tunnel Engineering | 1 | | 1 | 7 | 10 | | |
| | 03150430 | Course Design of Road and bridge engineering budget | 1 | | 1 | 7 | 11 | | |
| | 03150420 | Course Design of BridgeOrganization | 1 | | 1 | 7 | 12 | | |
| | 03150369 | Civil engineering process training | 1 | | 1 | 7 | 13 | | |
| | 03180181 | Structure Design Software Applications | 1.5 | 32 | / | 7 | | | |
| | 03180171 | Computation for Bridge Engineering | 1.5 | 32 | / | 7 | | | |
| | 03150271 | Structural Test | 1.5 | 32 | / | 7 | | | |
| | 03150480 | Production Practice | 3 | / | 6 | 7 | 14-19 | | |
| | 03180170 | Graduation Practice | 1 | / | 2 | 8 | 1-2 | | |
| | 03150190 | ( ) Graduation Design(Thesis) | 14 | / | 14 | 8 | 3-16 | | |
| | 03150400 | The Second Class | 5 | / | / | 0.5 | | 0.5 | |
| | | | 42.5 +5 | 160 | 40 | -- | -- | -- | |

4

**4.1**

| 序号 | 专业认证课程类别 | | 标准要求 | 土木工程 | |
|---|---|---|---|---|---|
| | | | | 学分合计 | 比例 |
| 1 | | | ≥15% | 27.5 | 15.4% |
| 2 | | | ≥30% | 16.5 | 37.9% |
| | | | | 17.5 | |
| | | | | 33.5 | |
| | | | | 67.5 | |
| 3 | | | ≥20% | 37 | 20.8% |
| 4 | | | ≥15% | 46 | 25.8% |
| 5 | | | | 5 | |
| | | | | **178+5** | **100%** |

**4.2**

| 序号 | 课程名称 | 学分 |
|---|---|---|
| 1 | A1 | 6 |

| | | |
|---|---|---|
| 2 | A2 | 4 |
| 3 | A | 3 |
| 4 | A | 3 |
| 5 | | 2 |
| 6 | D | 4 |
| 7 | C | 1 |
| 8 | | 2 |
| 9 | | 2 |
| 10 | | 0.5 |
| | | **27.5** |
| | | **15.4%** |

**4.3**

| 类别 | 序号 | 课程名称 | 学分 |
|---|---|---|---|
| | 1 | Python | 3 |
| | 2 | | 1 |
| | 3 | | 2.5 |
| | 4 | | 4 |
| | 5 | | 4 |
| | 6 | | 2 |
| | 7 | | 5 |
| | | | 21.5 |
| | 1 | | 2.5 |
| | 2 | | 2 |
| | 3 | | 2 |
| | 4 | | 2 |
| | 5 | | 1.5 |
| | | | 10 |
| | 1 | | ≥4.0 |
| | 1 | | 3 |
| | 2 | | 4 |
| | 3 | | 3 |
| | 4 | | 2 |
| | 5 | ( ) | 2 |
| | | | 14 |
| | 1 | | 13 |
| | 2 | 1 | 13 |

| | | | |
|---|---|---|---|
| | 1 | 2<br>BIM | ≥5.0 |
| | | | **67.5** |
| | | | **37.9%** |

**4.4**

| 序号 | 课程名称 | 学分 |
|---|---|---|
| 1 | B | 1 |
| 2 | | 0.5 |
| 3 | | 1 |
| 4 | | 1 |
| 5 | | 2 |
| 6 | | 1.5 |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | 9.5 |
| 12 | | |
| 13 | | |
| 14 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | 9.5 |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | 1 |
| 16 | | 1.5 |
| 17 | | 3 |
| 18 | | 1 |
| 19 | ) | 14 |
| | | 37 |
| | | 20.8% |

| | | | |
|---|---|---|---|
| | 1 | | 3 |
| | 2 | | 3 |
| | 3 | | 3 |
| | 4 | | 2 |
| | 5 | | 2 |
| | 6 | | 2 |
| | 7 | | 2 |
| | 8 | | 1 |
| | 9 | | 2 |
| | 10 | | 8 |
| | 11 | A1 | 1 |
| | 12 | A2 | 1 |
| | 13 | A3 | 1 |
| | 14 | A4 | 1 |
| | | | 32 |
| | | | 2 |
| | | | 2 |
| | | | 4 |
| | | | 2 |
| | 1 | | 2 |
| | 2 | | 2 |
| | | | 4 |
| | 1 | | 0.5 |
| | 2 | | 0.5 |
| | 3 | | 0.5 |
| | 4 | | 3.5 |
| | | | 5 |
| | | | **46** |
| | | | **25.8%** |

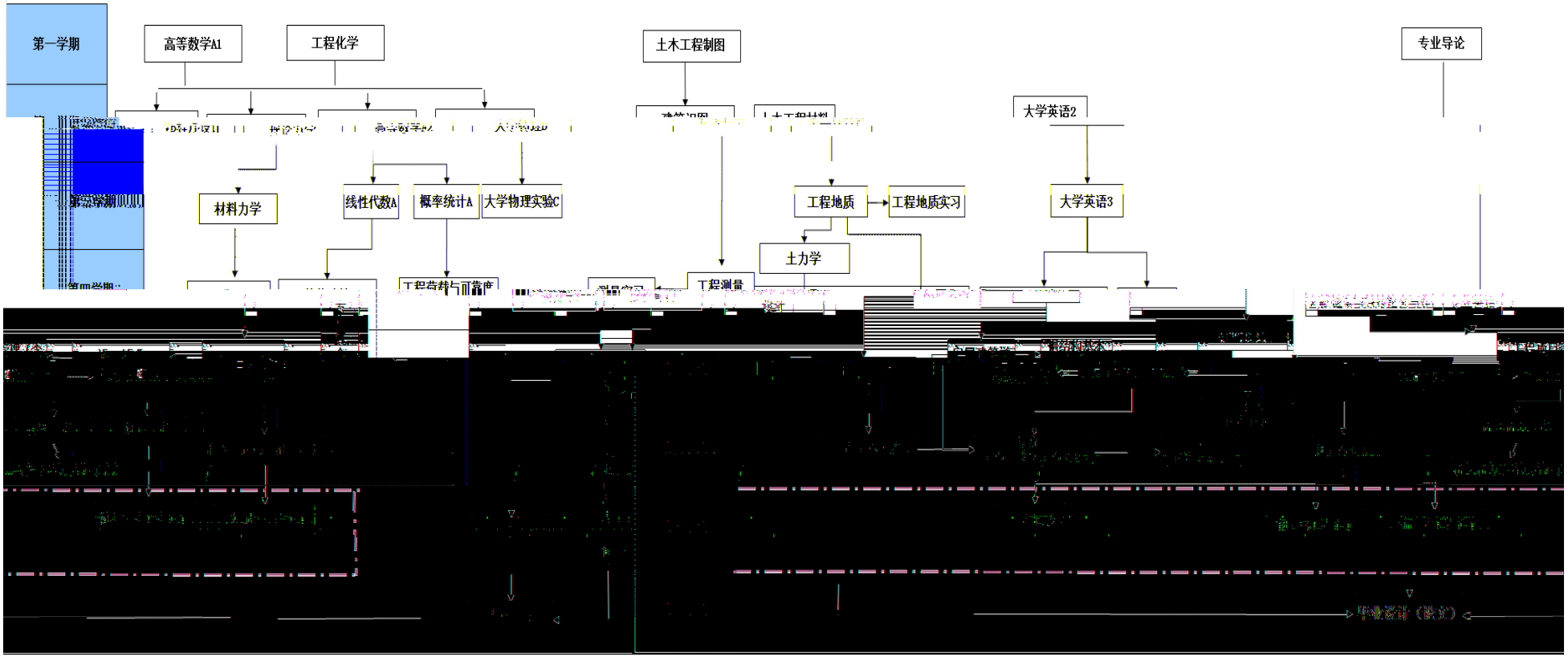
## 4.6

| 学年 | 学期 | 课堂教学 | 考试 | 实践 | 入学、始业教育、军事课 | 思想政治理论备 |
|---|---|---|---|---|---|---|

| 课程类别 | 学分 | 学时 | 占课内学分比例(%) | 占总学分比例(%) | 说明 |
| --- | --- | --- | --- | --- | --- |
| | 61 | 1056 | 45.02 | 33.33 | |
| | 10 | 160 | 7.38 | 5.46 | 1. 38.25% |
| | 27 | 448 | 19.93 | 14.75 | 2. 16.94% |
| | 4 | 64 | 2.95 | 2.19 | |
| | 15.5 | 248 | 11.44 | 8.47 | 3. 18.31% |
| | 18 | 288 | 13.28 | 9.84 | 4. 25.96% |
| ( ) | 42.5+5 | 160 +40 | / | 25.96 | 5. 15.4% |
| | 178+5 | 2424 +40 | 100 | 100 | 6. 23.61% |

| | | | | | | |
|---|---|---|---|---|---|---|
| 03110125 | Foundation Engineering | 2 | 2 | 32 | 5 | |
| 03110620 | Building Construction | 2.5 | 2.5 | 40 | 5 | |
| 03110500 | Design of Concrete Structure | 4 | 4 | 64 | 6 | |
| | | 40.5 | | 664 | | |

1


第一学期
高等数学A1
工程化学
土木工程制图
专业导论
大学英语2
材料力学
线性代数A
概率统计A
大学物理实验C
工程地质
工程地质实习
大学英语3
土力学
工程测量