

重庆工商大学派斯学院学生成绩表

|             |                 |      |                    |     |     |             |                |    |     |     |     |
|-------------|-----------------|------|--------------------|-----|-----|-------------|----------------|----|-----|-----|-----|
| 学 号         | 2018319003      | 姓 名  | 金鑫                 |     |     | 性 别         | 男              |    |     |     |     |
| 学 院         | 软件工程学院          | 专 业  | 物联网工程              |     |     | 入学日期        | 20180901       |    |     |     |     |
| 班 级         | 18物联网           | 身份证号 | 342623200011187733 |     |     | 学 制         | 4              |    |     |     |     |
| 已获总学分       | 166.9           | 平均成绩 | 79.77              |     |     | 平均学分绩点      | 2.96           |    |     |     |     |
| 学年学期        | 课程名称            | 属性   | 成绩                 | 学分  | 绩点  | 学年学期        | 课程名称           | 属性 | 成绩  | 学分  | 绩点  |
| 2018-2019-1 | 程序设计基础(C语言)     | 必修   | 76                 | 4   | 2.6 | 2018-2019-1 | 大学体育I          | 必修 | 61  | 1   | 1.1 |
| 2018-2019-1 | 大学英语I           | 必修   | 77                 | 4   | 2.7 | 2018-2019-1 | 高等数学I          | 必修 | 62  | 5   | 1.2 |
| 2018-2019-1 | 思想道德修养与法律基础     | 必修   | 63                 | 3   | 1.3 | 2018-2019-1 | 物联网工程导论        | 必修 | 79  | 2   | 2.9 |
| 2018-2019-1 | 形势与政策I          | 必修   | 及格                 | 0.3 | 1.5 | 2018-2019-2 | 大学生军事理论        | 必修 | 及格  | 2   | 1.5 |
| 2018-2019-2 | 大学生职业生涯规划I      | 必修   | 中                  | 0.5 | 2.5 | 2018-2019-2 | 大学体育II         | 必修 | 63◆ | 1   | 1   |
| 2018-2019-2 | 大学英语II          | 必修   | 79                 | 4   | 2.9 | 2018-2019-2 | 高等数学II         | 必修 | 74  | 5   | 2.4 |
| 2018-2019-2 | 线性代数A           | 必修   | 72                 | 4   | 2.2 | 2018-2019-2 | 面向对象程序设计(C++)  | 必修 | 87  | 5   | 3.7 |
| 2018-2019-2 | 形势与政策II         | 必修   | 79                 | 3   | 2.9 | 2018-2019-2 | 形势与政策II        | 必修 | 中   | 0.3 | 2.5 |
| 2018-2019-2 | 中国近现代史纲要        | 必修   | 75                 | 2   | 2.5 | 2019-2020-1 | 操作系统           | 必修 | 83  | 4   | 3.3 |
| 2019-2020-1 | 大学体育III         | 必修   | 91                 | 1   | 4   | 2019-2020-1 | 大学英语III        | 必修 | 66  | 4   | 1.6 |
| 2019-2020-1 | 电路与电子学          | 必修   | 69                 | 3   | 1.9 | 2019-2020-1 | 概率论与数理统计A      | 必修 | 84  | 3   | 3.4 |
| 2019-2020-1 | 离散数学            | 必修   | 74                 | 3   | 2.4 | 2019-2020-1 | 马克思主义基本原理概论    | 必修 | 61  | 3   | 1.1 |
| 2019-2020-1 | 人工智能与信息社会       | 公选   | 70.18              | 2   | 2   | 2019-2020-1 | 暑假社会实践I        | 必修 | 85  | 1   | 3.5 |
| 2019-2020-1 | 数据库原理及课程设计      | 必修   | 83                 | 3   | 3.3 | 2019-2020-1 | 形势与政策III       | 必修 | 中   | 0.3 | 2.5 |
| 2019-2020-2 | JAVA程序设计及课程设计   | 必修   | 85                 | 3   | 3.5 | 2019-2020-2 | 大学生职业生涯规划II    | 必修 | 良   | 0.8 | 3.5 |
| 2019-2020-2 | 大学体育IV          | 必修   | 83                 | 1   | 3.3 | 2019-2020-2 | 大学英语IV         | 必修 | 91  | 4   | 4   |
| 2019-2020-2 | 计算机仿真设计(Pasica) | 限选   | 87                 | 2   | 3.7 | 2019-2020-2 | 计算机维护技术        | 必修 | 78  | 1   | 2.8 |
| 2019-2020-2 | 计算机组成原理         | 必修   | 92                 | 3   | 4   | 2019-2020-2 | 数据结构与算法及课程设计   | 必修 | 88  | 5   | 3.8 |
| 2019-2020-2 | 数字电路与逻辑设计       | 必修   | 93                 | 3   | 4   | 2019-2020-2 | 物联网工程设计与实施     | 必修 | 89  | 2   | 3.9 |
| 2019-2020-2 | 形势与政策IV         | 公选   | 中                  | 2   | 2.5 | 2019-2020-2 | 形势与政策IV        | 必修 | 中   | 0.3 | 2.5 |
| 2020-2021-1 | Python程序设计      | 限选   | 87                 | 4   | 3.7 | 2020-2021-1 | RFID原理及应用与课程设计 | 必修 | 81  | 3   | 3.1 |
| 2020-2021-1 | WEB开发技术         | 限选   | 90                 | 2   | 4   | 2020-2021-1 | 传感器原理及应用       | 必修 | 77  | 3   | 2.7 |
| 2020-2021-1 | 单片机原理与应用        | 必修   | 98                 | 2   | 4.5 | 2020-2021-1 | 计算机网络          | 必修 | 86  | 3   | 3.6 |
| 2020-2021-1 | 嵌入式系统           | 必修   | 81                 | 2   | 3.1 | 2020-2021-1 | 暑假社会实践II       | 必修 | 良   | 1   | 3.5 |
| 2020-2021-1 | 天文漫谈            | 公选   | 99                 | 2   | 4.5 | 2020-2021-1 | 物联网通信技术        | 必修 | 69  | 3   | 1.9 |
| 2020-2021-1 | 形势与政策V          | 必修   | 良                  | 0.3 | 3.5 | 2020-2021-1 | 中国古建筑文化与鉴赏     | 公选 | 87  | 2   | 3.7 |
| 2020-2021-2 | 物联网系统应用开发与课程设计  |      | 82                 | 3   | 3.2 | 2020-2021-2 | Linux应用与开发     | 必修 | 85  | 2   | 3.5 |
| 2020-2021-2 | Zigbee原理及应用     | 限选   | 87                 | 2   | 3.7 | 2020-2021-2 | 传感网原理及应用       | 必修 | 86  | 3   | 3.6 |
| 2020-2021-2 | 创新创业            | 必修   | 83                 | 1   | 3.3 | 2020-2021-2 | 物联网系统设计与案例分析   | 必修 | 优   | 3   | 4.5 |
| 2020-2021-2 | 物联网中间件技术        | 必修   | 88                 | 2   | 3.8 | 2020-2021-2 | 现代通讯技术         | 必修 | 78  | 3   | 2.8 |
| 2020-2021-2 | 形势与政策VI         | 必修   | 80                 | 0.3 | 3   | 2020-2021-2 | 应用文写作          | 公选 | 70  | 2   | 2   |
| 2020-2021-2 | 云计算及应用          | 限选   | 83                 | 2   | 3.3 | 2020-2021-2 | DSP原理及应用       | 限选 | 81  | 2   | 3.1 |
| 2021-2022-1 | 大数据处理与应用        |      | 81                 | 3   | 3.1 | 2021-2022-1 | 就业指导           | 必修 | 79  | 0.8 | 2.9 |
| 2021-2022-1 | 物联网定位技术         | 限选   | 86                 | 2   | 3.6 | 2021-2022-1 | 物联网控制技术        | 必修 | 75  | 2   | 2.5 |
| 2021-2022-1 | 信息安全技术          |      | 76                 | 2   | 2.5 | 2021-2022-1 | 大学语文           | 必修 | 中   | 1   | 2.5 |

本成绩单需同时有签字和盖章方为有效, 补考成绩加\*标记, 重修成绩加◆标记, 缓考成绩加△标记

审核人:

胡西敏

教务处盖章:



打印日期: 2022年3月21日

Student Transcript of Pass College of Chongqing Technology and Business University

|                            |   |  |                 |        |                                |             |                            |   |  |                 |           |        |             |
|----------------------------|---|--|-----------------|--------|--------------------------------|-------------|----------------------------|---|--|-----------------|-----------|--------|-------------|
| Student ID                 | 2018319003  |  | Name            |        | Jin Xin                        |             |                            | Gender  |  | Male            |           |        |             |
| College                    | College of Software Engineering   |  | Major           |        | Internet of Things Engineering |             |                            | Date of Enrollment  |  | Sep. 1, 2018    |           |        |             |
| Class                      | Grade 2018, Internet of Things Engineering  |  | ID Card No.     |        | 342623200011187733             |             |                            | Length of Program   |  | 4               |           |        |             |
| Total Credits Obtained     | 166.9   |  | Average Score   |        | 79.77                          |             |                            | GPA   |  | 2.96            |           |        |             |
| Academic Year/<br>Semester | Course Name   |  | Type            | Score  | Credit                         | Grade Point | Academic Year/<br>Semester | Course Name   |  | Type            | Score     | Credit | Grade Point |
| 2018-2019-1                | Fundamentals of Programming (C Language)  |  | Required        | 76     | 4                              | 2.6         | 2018-2019-1                | College Physical Education I                                |  | Required        | 61        | 1      | 1.1         |
| 2018-2019-1                | College English I   |  | Required        | 77     | 4                              | 2.7         | 2018-2019-1                | Advanced Mathematics I                                      |  | Required        | 62        | 5      | 1.2         |
| 2018-2019-1                | Ideological and Moral Cultivation and Legal Basis   |  | Required        | 63     | 3                              | 1.3         | 2018-2019-1                | Introduction to Internet of Things Engineering              |  | Required        | 79        | 2      | 2.9         |
| 2018-2019-1                | Situation and Policy I  |  | Required        | Pass   | 0.3                            | 1.5         | 2018-2019-2                | Military Theory for College Students                        |  | Required        | Pass      | 2      | 1.5         |
| 2018-2019-2                | Career Planning for College Students I  |  | Required        | Medium | 0.5                            | 2.5         | 2018-2019-2                | College Physical Education II                               |  | Required        | 63◆       | 1      | 1           |
| 2018-2019-2                | College English II  |  | Required        | 79     | 4                              | 2.9         | 2018-2019-2                | Advanced Mathematics II                                     |  | Required        | 74        | 5      | 2.4         |
| 2018-2019-2                | Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics |  | Required        | 72     | 4                              | 2.2         | 2018-2019-2                | Object Oriented Programming (C++)                           |  | Required        | 87        | 5      | 3.7         |
| 2018-2019-2                | Linear Algebra A  |  | Required        | 79     | 3                              | 2.9         | 2018-2019-2                | Situation and Policy II                                     |  | Required        | Medium    | 0.3    | 2.5         |
| 2018-2019-2                | Outline of Modern and Contemporary Chinese History  |  | Required        | 75     | 2                              | 2.5         | 2019-2020-1                | Operating System  |  | Required        | 83        | 4      | 3.3         |
| 2019-2020-1                | College Physical Education III  |  | Required        | 91     | 1                              | 4           | 2019-2020-1                | College English III   |  | Required        | 66        | 4      | 1.6         |
| 2019-2020-1                | Circuits and Electronics  |  | Required        | 69     | 3                              | 1.9         | 2019-2020-1                | Probability Theory and Mathematical Statistics A            |  | Required        | 84        | 3      | 3.4         |
| 2019-2020-1                | Discrete Mathematics  |  | Required        | 74     | 3                              | 2.4         | 2019-2020-1                | Introduction to the Basic Principles of Marxism             |  | Required        | 61        | 3      | 1.1         |
| 2019-2020-1                | Artificial Intelligence and the Information Society   |  | Public Elective | 70.18  | 2                              | 2           | 2019-2020-1                | Summer Social Practice I                                    |  | Required        | 85        | 1      | 3.5         |
| 2019-2020-1                | Principles and Course Design of Database  |  | Required        | 83     | 3                              | 3.3         | 2019-2020-1                | Situation and Policy III                                    |  | Required        | Medium    | 0.3    | 2.5         |
| 2019-2020-2                | JAVA Programming and Course Design  |  | Required        | 85     | 3                              | 3.5         | 2019-2020-2                | Career Planning for College Students II                     |  | Required        | Good      | 0.8    | 3.5         |
| 2019-2020-2                | College Physical Education IV   |  | Required        | 83     | 1                              | 3.3         | 2019-2020-2                | College English IV  |  | Required        | 91        | 4      | 4           |
| 2019-2020-2                | Computer Simulation Design (Poteus)   |  | Limited         | 87     | 2                              | 3.7         | 2019-2020-2                | Computer Maintenance Technology                             |  | Required        | 78        | 1      | 2.8         |
| 2019-2020-2                | Principles of Computer Organization   |  | Required        | 92     | 3                              | 4           | 2019-2020-2                | Data Structures and Algorithms and Course Design            |  | Required        | 88        | 5      | 3.8         |
| 2019-2020-2                | Digital Circuit and Logic Design  |  | Required        | 93     | 3                              | 4           | 2019-2020-2                | Design and Implementation of Internet of Things Engineering |  | Required        | 89        | 2      | 3.9         |
| 2019-2020-2                | Thirty Lectures on Xi Jinping's Thought on Socialism with Chinese Characteristics for a New Era         |  | Public Elective | Medium | 2                              | 2.5         | 2019-2020-2                | Situation and Policy IV                                     |  | Required        | Medium    | 0.3    | 2.5         |
| 2020-2021-1                | Python Programming  |  | Limited         | 87     | 4                              | 3.7         | 2020-2021-1                | RFID Principles and Applications and Course Design          |  | Required        | 81        | 3      | 3.1         |
| 2020-2021-1                | WEB Development Technology  |  | Limited         | 90     | 2                              | 4           | 2020-2021-1                | Principles and Applications of Sensors                      |  | Required        | 77        | 3      | 2.7         |
| 2020-2021-1                | Principles and Applications of Single Chip Microcontrollers   |  | Required        | 98     | 2                              | 4.5         | 2020-2021-1                | Computer Network  |  | Required        | 86        | 3      | 3.6         |
| 2020-2021-1                | Embedded System   |  | Required        | 81     | 2                              | 3.1         | 2020-2021-1                | Summer Social Practice II                                   |  | Required        | Good      | 1      | 3.5         |
| 2020-2021-1                | Astronomy Ramble  |  | Public Elective | 99     | 2                              | 4.5         | 2020-2021-1                | IoT Communication Technology                                |  | Required        | 69        | 3      | 1.9         |
| 2020-2021-1                | Situation and Policy V  |  | Required        | Good   | 0.3                            | 3.5         | 2020-2021-1                | Chinese Ancient Architecture Culture and Appreciation       |  | Public Elective | 87        | 2      | 3.7         |
| 2020-2021-2                | Android System Application Development and Course Design  |  |                 | 82     | 3                              | 3.2         | 2020-2021-2                | Linux Applications and Development                          |  | Required        | 85        | 2      | 3.5         |
| 2020-2021-2                | Principles and Applications of Zigbee   |  | Limited         | 87     | 2                              | 3.7         | 2020-2021-2                | Principles and Applications of Sensor Networks              |  | Required        | 86        | 3      | 3.6         |
| 2020-2021-2                | Innovation and Entrepreneurship   |  | Required        | 83     | 1                              | 3.3         | 2020-2021-2                | Design and Case Analysis of Internet of Things System       |  | Required        | Excellent | 3      | 4.5         |
| 2020-2021-2                | IoT Middleware Technology   |  | Required        | 88     | 2                              | 3.8         | 2020-2021-2                | Modern Communication Technology                             |  | Required        | 78        | 3      | 2.8         |
| 2020-2021-2                | Situation and Policy VI   |  | Required        | 80     | 0.3                            | 3           | 2020-2021-2                | Practical Writing   |  | Public Elective | 70        | 2      | 2           |
| 2020-2021-2                | Cloud Computing and Applications  |  | Limited         | 83     | 2                              | 3.3         | 2021-20221                 | Principles and Applications of DSP                          |  | Limited         | 81        | 2      | 3.1         |
| 2021-2022-1                | Big Data Processing and Application   |  |                 | 81     | 3                              | 3.1         | 2021-20221                 | Career Guidance   |  | Required        | 79        | 0.8    | 2.9         |
| 2021-2022-1                | IoT Positioning Technology  |  | Limited         | 86     | 2                              | 3.6         | 2021-2022-1                | Internet of Things Control Technology                       |  | Required        | 75        | 2      | 2.5         |
| 2021-2022-1                | Information Security Technology   |  |                 | 76     | 2                              | 2.6         | 2021-2022-1                | Academic Year Paper   |  | Required        | Medium    | 4      | 2.5         |

This transcript must be signed and sealed at the same time for it to be valid. The resit scores are marked with (\*), the retake scores are marked with (◆), and the deferred exam scores are marked with (△)

Reviewer:胡正勇 Academic Affairs Office (Seal): Academic Affairs Office,Pass College of Chongqing Technology and Business University Print Date: March 21, 2022

I confirm the above translation is an accurate translation of the Original document.  
Translator: LIU SHUAI Tel: 18615255324 Certificate of English Translation: Level II Certificate No.:201911009130000250  
Company: Shandong Wanteng Translation Service Co., Ltd.  
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Date of Translation: November 2, 2024



重庆工商大学

## 重庆工商大学毕业生成绩表

|      |         |    |            |    |      |
|------|---------|----|------------|----|------|
| 姓名   | 金鑫      | 学号 | 2022313018 | 年级 | 2022 |
| 学生类型 | 全日制学术硕士 | 学院 | 人工智能学院     |    |      |
| 指导教师 | 江赞      | 专业 | 软件工程       |    |      |

|        |      |         |      |          |     |        |      |
|--------|------|---------|------|----------|-----|--------|------|
| 全部学分   | 39.5 | 课程学分    | 39.5 | 其他环节学分   | 0.0 | 学位课学分  | 28.5 |
| 已修课程学分 | 39.5 | 已修学位课学分 | 28.5 | 已修其它环节学分 | 0.0 | 学位课平均分 | 85.3 |

| 成绩表    |                      |                  |     |    |  |
|--------|----------------------|------------------|-----|----|--|
| 课程类别   | 课程名称                 | 上课学年/学期          | 学分  | 成绩 |  |
| ▲公共基础课 | 自然语言处理               | 2022-2023学年 第2学期 | 0.0 | 94 |  |
| ▲公共基础课 | 自然辩证法概论(理工科)         | 2022-2023学年 第1学期 | 1.0 | 94 |  |
| ▲公共基础课 | 嵌入式软件设计与开发           | 2022-2023学年 第2学期 | 2.0 | 82 |  |
| ▲公共基础课 | 物联网高级技术              | 2022-2023学年 第2学期 | 0.0 | 70 |  |
| ▲公共基础课 | 综合英语                 | 2022-2023学年 第1学期 | 3.0 | 76 |  |
| ▲公共基础课 | 新时代中国特色社会主义思想理论与实践研究 | 2022-2023学年 第1学期 | 2.0 | 86 |  |
| ▲公共基础课 | 高级计算机网络              | 2022-2023学年 第2学期 | 2.0 | 86 |  |
| ▲公共基础课 | 中国特色社会主义理论与实践研究      | 2022-2023学年 第1学期 | 2.0 | 86 |  |
| ▲公共基础课 | 计算机视觉                | 2022-2023学年 第2学期 | 0.0 | 92 |  |
| ▲公共选修课 | 写作与思维实训              | 2022-2023学年 第2学期 | 1.0 | 90 |  |
| ▲公共选修课 | 烘焙食品加工体验             | 2022-2023学年 第1学期 | 0.5 | 92 |  |
| ▲专业基础课 | 复杂网络理论及其应用           | -                | 3.0 | 86 |  |
| ▲专业课   | 嵌入式软件设计与开发           | 2022-2023学年 第2学期 | 2.0 | 82 |  |
| ▲专业课   | 深度学习                 | -                | 2.0 | 78 |  |
| ▲专业课   | 高级计算机网络              | 2022-2023学年 第2学期 | 2.0 | 86 |  |
| ▲专业选修课 | 计算机视觉                | 2022-2023学年 第2学期 | 2.0 | 92 |  |
| ▲专业选修课 | 自然语言处理               | 2022-2023学年 第2学期 | 2.0 | 94 |  |
| ▲专业选修课 | 物联网高级技术              | 2022-2023学年 第2学期 | 2.0 | 70 |  |
| 公共选修课  | 创新创业教育               | 2023-2024学年 第2学期 | 1.0 | 90 |  |
| 实践环节   | 学术活动(学术报告或学术讲座、学术研讨) | -                | 1.0 | 96 |  |
| 实践环节   | 社会实践                 | -                | 1.0 | 94 |  |
| 实践环节   | 专业实践                 | -                | 1.0 | 95 |  |
| 实践环节   | 《文献阅读》               | -                | 1.0 | 92 |  |
| 专业基础课  | 算法设计与分析              | 2022-2023学年 第1学期 | 2.0 | 86 |  |
| 专业课    | 高级数据分析               | 2022-2023学年 第1学期 | 2.0 | 80 |  |
| 专业选修课  | 影视理论与传播研究            | 2023-2024学年 第2学期 | 2   | 82 |  |

| 备注 |                                      |
|----|--------------------------------------|
| 1  | “▲”表示该门课程为学位课程。                      |
| 2  | “补修课”表示该学生本科阶段和研究生阶段专业不一致,需要补修的本科课程。 |
| 3  | “外选课”表示该学生选修其他专业的课程。                 |
| 4  | “转入课程”表示该学生在校期间发生过专业变动,所修的原专业课程。     |

秘书签字: 肖同萍

学院公章

|                               |                                    |                         |            |                                    |     |                      |      |      |
|-------------------------------|------------------------------------|-------------------------|------------|------------------------------------|-----|----------------------|------|------|
| Name                          | Jin Xin                            |                         | Student ID | 2022313018                         |     | Grade                | 2022 |      |
| Degree                        | Full Time Academic Master's Degree |                         | College    | College of Artificial Intelligence |     |                      |      |      |
| Instructor                    | Jiang Yun                          |                         | Major      | Software Engineering               |     |                      |      |      |
| Total Credits                 | 39.5                               | Course Credits          | 39.5       | Other Link Credits                 | 0.0 | Degree Credits       |      | 28.5 |
| Total Course Credits Obtained | 39.5                               | Degree Credits Obtained | 28.5       | Other Link Credits Obtained        | 0.0 | Degree Average Score |      | 85.3 |

| Transcript      |  |  |        |       |
|-----------------|--|--|--------|-------|
| Type            | Course Name  | Academic Year/Semester                       | Credit | Score |
| △Public Basic   | Natural Language Processing  | The Second Semester, 2022-2023 Academic Year | 0.0    | 94    |
| ▲Public Basic   | Introduction to Dialectics of Nature (Science and Engineering)                               | The First Semester, 2022-2023 Academic Year  | 1.0    | 94    |
| △Public Basic   | Embedded Software Design and Development   | The Second Semester, 2022-2023 Academic Year | 2.0    | 82    |
| △Public Basic   | Advanced Technologies in the Internet of Things  | The Second Semester, 2022-2023 Academic Year | 0.0    | 70    |
| ▲Public Basic   | Comprehensive English  | The First Semester, 2022-2023 Academic Year  | 3.0    | 76    |
| APublic Basic   | Research on the Theory and Practice of Socialism with Chinese Characteristics in the New Era | The First Semester, 2022-2023 Academic Year  | 2.0    | 86    |
| △Public Basic   | Advanced Computer Networks   | The Second Semester, 2022-2023 Academic Year | 2.0    | 86    |
| ▲Public Basic   | Research on the Theory and Practice of Socialism with Chinese Characteristics                | The First Semester, 2022-2023 Academic Year  | 2.0    | 86    |
| ▲Public Basic   | Computer Vision  | The Second Semester, 2022-2023 Academic Year | 0.0    | 92    |
| △Major Public   | Writing and Thinking Training  | The Second Semester, 2022-2023 Academic Year | 1.0    | 90    |
| △Major Public   | Baked Goods Processing Experience  | The First Semester, 2022-2023 Academic Year  | 0.5    | 92    |
| ▲Major Basic    | Complex Network Theory and Its Applications  | —  | 3.0    | 86    |
| ▲Major          | Embedded Software Design and Development   | The Second Semester, 2022-2023 Academic Year | 2.0    | 82    |
| ▲Major          | Deep Learning  | —  | 2.0    | 78    |
| ▲Major          | Advanced Computer Networks   | The Second Semester, 2022-2023 Academic Year | 2.0    | 86    |
| ▲Major Elective | Computer Vision  | The Second Semester, 2022-2023 Academic Year | 2.0    | 92    |
| ▲Major Elective | Natural Language Processing  | The Second Semester, 2022-2023 Academic Year | 2.0    | 94    |
| ▲Major Elective | Advanced Technologies in the Internet of Things  | The Second Semester, 2022-2023 Academic Year | 2.0    | 70    |
| Major Public    | Innovation and Entrepreneurship Education  | The Second Semester, 2023-2024 Academic Year | 1.0    | 90    |
| Practice Link   | Academic Activities (Academic Reports or Academic Lectures, Academic Seminars)               | —  | 1.0    | 96    |
| Practice Link   | Social Practice  | —  | 1.0    | 94    |
| Practice Link   | Professional Practice  | —  | 1.0    | 95    |
| Practice Link   | Literature Reading   | —  | 1.0    | 92    |
| Major Basic     | Algorithm Design and Analysis  | The First Semester, 2022-2023 Academic Year  | 2.0    | 86    |
| Major           | Advanced Data Analysis   | The First Semester, 2022-2023 Academic Year  | 2.0    | 80    |
| Major Elective  | Film and Television Theory and Communication Research  | The Second Semester, 2023-2024 Academic Year | 2      | 82    |

| Note |  |
|------|--|
| 1    | "▲ "indicates that the course is a Degree Course.  |
| 2    | "Make-up Course" indicates that the undergraduate and postgraduate major of the student is inconsistent, and the undergraduate course needs to take. |
| 3    | "External Elective" indicates that the student takes courses in other majors.  |
| 4    | "Transfer to Course" indicates the original Major course taken, the major of the student has changed during the school,                              |

Signature of Secretary: Guoping XiaoCollege (Seal):Chongqing Technology and Business University, Graduate School

I confirm the above translation is an accurate translation of the Original document.  
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