TSINGHUA UNIVERSITY
ACADEMIC TRANSCRIPT

Student Name Liang Xiao

Gender Male **Student No.** 2022213998 **Student Type** Graduate **Date of Admission** September, 2022

Subject Data Science and Information Technology

Course Number	Course Title	Credit	Degree Course	Grade	Point	Year-Semester
60680021	Introduction to Dialectics of Nature	1	Y	B+	3.6	2022-Autumn
62910031	Professional Ethics	1	Y	P	N/A	2022-Autumn
76000041	Capstone Project	1	Y	P	N/A	2022-Autumn
76000102	English Academic Writing and Communication	2	Y	A-	4.0	2022-Autumn
80250993	Machine Learning	3	Y	A-	4.0	2022-Autumn
86000503	Learning from Data	3	Y	A	4.0	2022-Autumn
86000633	Fundamentals of Digital Image and Video Processing	3	Y	A	4.0	2022-Autumn
86000691	Energy-Environment and Data-Information	1	Y	P	N/A	2022-Autumn
86000793	Information Theory and Statistical Learning	3	Y	A	4.0	2022-Autumn
60680002	The theory and practice of socialism with Chinese characteristics for the new era	2	Y	A-	4.0	2023-Spring
66000011	Introduction to Creativity, innovation, startup, makers and venture captals	1	Y	A-	4.0	2023-Spring
86001083	Large Deviation and High Dimensional Statistics	3	Y	A	4.0	2023-Spring
60510271	Innovation and Entrepreneurship Practise **********	1	N	P	N/A	2022-Autumn

Total Credits: 25.0 **Degree Course GPA:** 3.98 **Degree Course Credits:** 24

Director of Registrar's Office: 刘沐

Official Seal:

Date Printed: July 16, 2024

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KEY TO TRANSCRIPT

I. COURSE NUMBERING SYSTEM

Each course number consists of 8-10 characters.

The first character indicates the course level:

0-4 or H-T, W = undergraduate courses

6-9, A-G or X-Z = graduate courses

II. CREDIT

Credit is reported in terms of semester hours, whether earned during a 16-week semester or a summer session. For 1 unit of credit, either one hour per week is allotted to lecture or discussion, or two hours per week are allotted to laboratory, while more hours are needed for preparation or subsequent reading and study.

III. THE RECORD ENDS WITH **********.

IV. DATE OF GRADUATION and DEGREE CONFERRED

For currently enrolled undergraduates, the columns of DATE OF GRADUATION and DEGREE CONFERRED are **********.

V. GRADING SYSTEMS

a) EFFECTIVE for students who matriculated in spring 2015 and after

(i) Tsinghua University converted to a LETTER GRADING SYSTEM. The table below shows the grades in detail.

(ii) Credits are given for A+, A, A-, B+, B, B-, C+, C, C-, D+, D, P and EX.

(iii) W: Withdrew.

(iv) I: Incomplete. Marked when a student's application is approved for not attending the final exam.

(v) EX: Exemption. Students receive credits for exempted courses.

Grade	Grade Points	Corresponding 100-point Range	Equivalent 100-point value*
A+	4.0	95-100	100
A			98
A-		90-94	92
B+	3.6	85-89	87
B	3.3	80-84	82
B-	3.0	77-79	78
C+	2.6	73-76	75
C	2.3	70-72	71
C-	2.0	67-69	68
D+	1.6	63-66	65
D	1.3	60-62	61
F	0	0-59	0
P	N/A	N/A	N/A
F	N/A	N/A	N/A

* For the transition period in 2015-2018 between the 100-point grading system and the letter grading system, Tsinghua has provided a corresponding average of values in the 100-point range of each grade. The equivalent 100-point value for course receiving credits corresponds to the median in the range. Students who matriculated in spring 2019 and after no longer use the equivalent 100-point value.

b) EFFECTIVE for students who matriculated prior to spring 2015

(i) 100-POINT GRADING SYSTEM: Credits are given for 60 points and above.

(ii) PASS/FAIL SYSTEM: Credits are given for PASS.
DISTINCTION (for undergraduates only): Credits are given for DISTINCTION.

(iii) REPEATED COURSES: The transcript displays only the latest result of a repeated course. Repeated courses are designated with an "Rn" code beside the final grade, where "n" indicates the number of times the course was repeated.

VI. GRADING POLICY REFORM 2015-2018

In the ten years prior to spring 2015, 30 percent of A-range grades have been given. From fall 2015, Tsinghua initiated a grading reform: A-range grades (A+, A, A-) were to account for 20 percent of the grades given in all courses. In Spring 2019, the faculty reaffirmed its commitment to fair and transparent assessment and removed its numeric target for the percent of A-range grades.

VII. GPA CALCULATION

$$\text{GPA} = \frac{\sum \text{Course Credit} * \text{Grade Point}}{\sum \text{Course Credit}}$$

GPA is shown for students who matriculated in spring 2015 and after in a 4.0 grading scale. Course grades with N/A (Not Applicable) should not be included in GPA calculation.

中山大学本科生成绩单

SUN YAT-SEN UNIVERSITY UNDERGRADUATE TRANSCRIPT

学号 Student ID: 18308112　　姓名 Name: 梁潇 / LIANG Xiao　　学习期限 Years: 2018-2022

院系 Department: 电子与通信工程学院 / School of Electronics and Communication Engineering　　学制 Schooling Period: 4 年/years

专业 Major: 电子信息科学与技术 / Electronic Information Science and Technology

课程名称 Course	课类 Attr.	学时 Hours	学分 Credits	成绩 Scores
2018-2019 Academic Year 1st Term				
电子信息科技导论 Introduction to Electronics and Information Technology	ME	36	1	85
程序设计I Computer Programming (I)	MR	54	3	88
程序设计I实验 Computer Programming (I) Laboratory	MR	36	1	96
电路理论基础 Engineering Circuit Analysis	MR	54	3	91
电路理论基础实验 Engineering Circuit Analysis Laboratory	MR	36	1	89
高等数学一（I） Advanced Mathematics-1(I)	MR	90	5	83
线性代数 Linear Algebra	MR	54	3	87
大学生高级心理素质理论与运用（核心通识） Theory and Training of Advanced Psychological Quality of College Students	GE	36	2	76
大学英语III College English III	GR	36	2	85
军事课 Military Course	GR	64	3	72
体育 Physical Education	GR	36	1	88
中国近现代史纲要 Contemporary History of China	GR	54	3	83
2018-2019 Academic Year 2nd Term				
Matlab计算与仿真 Matlab Computation and Simulation	ME	36	1	88
高级程序设计 Advanced Programming	ME	36	2	92
大学物理（工） College Physics （for Engineering)	MR	72	4	98
大学物理实验（工） College Physics Laboratory （for Engineering)	MR	54	1.5	94
概率论与数理统计 Probability and Statistics	MR	54	3	95
高等数学一（II） Advanced Mathematics-1(II)	MR	90	5	94
模拟电路 Analog Circuits	MR	54	3	87
模拟电路实验 Analog Circuits Laboratory	MR	36	1	92
跨文化交流与管理（核心通识） Cross-cultural communication and management	GE	36	2	73
数字影视技术 Digital Video Technology	GE	36	2	92
大学英语IV College English IV	GR	36	2	87
思想道德修养与法律基础 Moral Character Cultivation and Basis of Law	GR	54	3	85
体育 Physical Education	GR	36	1	95
2019-2020 Academic Year 1st Term				
工程制图 Engineering Drawing	ME	54	2	95
离散数学 Discrete Mathematics	ME	36	2	100
数据结构与算法 Data Structures and Algorithms	ME	36	2	87
数据结构与算法实验 Data Structures and Algorithms Practice	ME	36	1	87
大学物理（工） College Physics （for Engineering)	MR	54	3	95
复变函数 Complex Analysis	MR	36	2	87
信号与系统 Signals and Systems	MR	72	4	98
管理社会学（核心通识） Sociology of Management	GE	36	2	84
美容药妆学 Cosmetic cosmeceuticals	GE	18	1	91
马克思主义基本原理 The Principles of Marxism	GR	54	3	85
体育 Physical Education	GR	18	0.5	79
学术交流英语 English for Academic Communication	GR	36	2	80
2019-2020 Academic Year 2nd Term				
数值计算方法 Numerical Methods	ME	54	3	95
电磁场与电磁波 Electromagnetic Fields and Waves	MR	36	2	90
电子工艺实习 Training of Electronic Techniques	MR	36	1	93
高频电路 High Frequency Circuits	MR	54	3	92
数字电路 Digital Circuits	MR	54	3	86
数字电路实验 Digital Circuits Laboratory	MR	36	1	90
随机过程与统计信号处理 Stochastic Processes and Statistical Signal Processing	MR	54	3	94
《中国民族民间音乐鉴赏》 Chinese national folk music appreciation	GE	36	2	94
运动处方 Exercise Prescription	GE	36	2	93
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 the Theoretical System of Socialism with Chinese Characteristics	GR	82	5	89
体育 Physical Education	GR	18	0.5	99
英语演讲与辩论 Public Speaking and Debating	GR	36	2	93
2020-2021 Academic Year 1st Term				
信息论与编码 Information Theory and Coding	ME	36	2	98.4
电子对抗原理 Principle of Electronic Countermeasure	MR	36	2	94
电子对抗原理实验 Principle of Electronic Countermeasure Laboratory	MR	36	1	95
数字信号处理 Digital Signal Processing	MR	54	3	99
数字信号处理实验 Digital Signal Processing Laboratory	MR	36	1	96
现代信号处理电路设计 Modern Signal Processing Circuit Design	MR	54	3	94
现代信号处理电路设计实验 Modern Signal Processing Circuit Disign Experiment	MR	54	1.5	94
智能光电感知 Intelligent Electro-Optical Vision Sensing	MR	36	2	90
智能光电感知实验 Intelligent Electro-Optical Vision Sensing Experiment	MR	36	1	91
芯片实验室与医疗健康 Lab on a Chip and Medical Health	GE	18	1	89
医学美容 Medical cosmetology	GE	18	1	88
2020-2021 Academic Year 2nd Term				
雷达原理与系统 Radar Principle and System	MR	54	3	92
雷达原理与系统仿真实验 Radar Principle and System Simulation Laboratory	MR	36	1	96
模式识别与人工智能 Pattern Recognition and Artificial Intelligence	MR	54	3	96
生产实习 Production Practice	MR	72	2	90
图像处理 Image Processing	MR	36	2	91
图像处理实验 Image Processing Laboratory	MR	36	1	92
微波技术与天线 Microwave Technology And Antenna	MR	54	3	97
微波技术与天线实验 Microwave Technology And Antenna Laboratory	MR	36	1	95
数学建模实践 Mathematical Modeling and Practice	GE	36	2	88

学分及绩点 Credits & GPA	Total	GR+MR	ME	GE
毕业应得学分 Major Required	157	125	16	16
主修实得学分 Major Obtained	158	125	16	17
主修课程平均绩点 GPA: 4.1	必专绩点 GR+MR+ME GPA: 4.1			

Signature:

SUN YAT-SEN UNIVERSITY 中山大学教务部 OFFICE OF EDUCATION ADMINISTRATION 学历证明专用章

Date: July 6, 2024

陈省平 Dr. Chen Shengping, Director General

Office of Education Administration

中 山 大 学 本 科 生 成 绩 单

SUN YAT-SEN UNIVERSITY UNDERGRADUATE TRANSCRIPT

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专业 Major: 电子信息科学与技术 / Electronic Information Science and Technology

课程名称 Course	课类 Attr.	学时 Hours	学分 Credits	成绩 Scores	课程名称 Course	课类 Attr.	学时 Hours	学分 Credits	成绩 Scores
体育 Physical Education	GR	18	0.5	88					
2021-2022 Academic Year 1st Term									
体育 Physical Education	GR	18	0.5	88					
形势与政策 Current Situation and Policy	GR	36	2	91					
2021-2022 Academic Year 2nd Term									
毕业论文(设计) Dissertation (Project)	MR	288	8	A					
------ End of Transcripts -----									

学分及绩点 Credits & GPA	Total	GR+MR	ME	GE
毕业应得学分 Major Required	157	125	16	16
主修实得学分 Major Obtained	158	125	16	17
主修课程平均绩点 GPA: 4.1	必专绩点 GR+MR+ME GPA: 4.1			

Signature:

Date: July 6, 2024

陈省平 Dr. Chen Shengping, Director General

Office of Education Administration

SUN YAT-SEN UNIVERSITY 中山大学教务部 OFFICE OF EDUCATION ADMINISTRATION 学历证明专用章

说　明

Explanatory Notes

中山大学本科课程的成绩与绩点（5 分制）对应关系如下：

The course scores adopt the following 5-point-scale grading system for undergraduate programs.

百分制 100-mark System	绩点数 Grade Points
90-100	4.0-5.0
80-89	3.0-3.9
70-79	2.0-2.9
60-69	1.0-1.9
0-59	0

五级记分制 Letter Grades		绩点数 Grade Point
优秀	A (Excellent)	4.5
良好	B (Good)	3.5
中等	C (Satisfactory)	2.5
及格	D (Pass)	1.5
不及格	E (Fail)	0

绩点按照成绩单上所有课程计算，计算公式为：

GPA＝∑(课程的绩点数*课程学分) / ∑课程学分。

GPA is calculated according to all courses on the transcript. The calculation formula is as follows:

GPA= ∑(Course Grade Point*Course Credits)/ ∑(Course Credits)

成绩标注（2017 年 9 月起）：

Scores symbols used in the transcript (since September 2017) :

重修：重新修读课程并考试。

RC: Retake the course and exam.

补考：重新参加考试。

RE: Retake the exam.

缓考：获准延期考试。

DE: Delayed exam was approved.

课程成绩不及格，可以重修或者补考。重修与补考只是方式不同，不代表学生学习能力的高低。

If a student failed a course, there are two alternatives: to retake the course and exam or to retake the exam only. RC and RE are only two options to complete a course, both of which cannot be used to assess a student's academic ability.

重修、补考成绩与绩点（5 分制）对应关系如下：

The 5-point-scale GPA calculations of RC/RE scores and letter grades are as follows :

重修补考百分制成绩 RC/RE 100-mark System	绩点数 Grade Point
90-100	3.0
75-89	2.0
60-74	1.0
0-59	0

重修补考五级记分制 RC/RE Letter Grades		绩点数 Grade Point
优秀	A	3.5
良好	B	2.5
中等	C	1.5
及格	D	1.0
不及格	E	0

课类/Course Attribute:

公必/GR：公共必修课/General Required Course

专必/MR：专业必修课/Major Required Course

公选/GE：公共选修课/General Elective Course

专选/ME：专业选修课/Major Elective Course

双必、双选/DD：双学位课程/Double Degree Course

双必、双选/DM：双专业课程/Double Major Course

辅修/M：辅修课程/Minor Course

荣誉课程/H: Honour Course (not included in the graduation credits)

公选(跨专业)/GE(I): General Elective Course (Interdisciplinary Course, not included in the graduation credits)

关于中山大学学期制的说明

Explanation for SYSU Academic Years and Terms

中山大学 2008 学年之前实行两学期制，2009 学年至 2015 学年实施三学期制，2016 学年恢复两学期制。

2012 学年夏季学期从第三学期调整为 2013 学年第一学期，因此，2012 学年没有夏季学期。

学生按照专业培养方案修读课程，如果学院在夏季学期没有安排专业课程，学生可以自主决定是否选读其他课程。因此，学生在夏季学期没有成绩记录属于正常情况。

There had been two terms in one academic year at SYSU before August 2009 and three terms in one academic year from September 2009 to August 2016. SYSU has readopted the two-term system since September 2016.

The summer term of 2012 Academic Year was shifted from the 3rd term to the 1st term of 2013 Academic Year. Therefore, there was no summer term for 2012 Academic Year.

Students take courses according to the undergraduate programs. If there had been no major courses arrangement for certain summer terms, students could decide for themselves whether to take other general courses, which might lead to no score record of summer terms on the transcript.

夏季学期(4.5 周)如下所示。

Summer Terms (4.5weeks) were arranged as follows:

学年 Academic Year	学期 Term	说明 Notes
2009	第一学期 1st Term	
	第二学期 2nd Term	
	第三学期 3rd Term	夏季学期 Summer Term
2010	第一学期 1st Term	
	第二学期 2nd Term	
	第三学期 3rd Term	夏季学期 Summer Term
2011	第一学期 1st Term	
	第二学期 2nd Term	
	第三学期 3rd Term	夏季学期 Summer Term
2012	第一学期 1st Term	
	第二学期 2nd Term	
2013	第一学期 1st Term	夏季学期 Summer Term
	第二学期 2nd Term	
	第三学期 3rd Term	
2014	第一学期 1st Term	夏季学期 Summer Term
	第二学期 2nd Term	
	第三学期 3rd Term	
2015	第一学期 1st Term	夏季学期 Summer Term
	第二学期 2nd Term	
	第三学期 3rd Term	

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