

TSINGHUA UNIVERSITY

ACADEMIC TRANSCRIPT

Student Name Chu Wenda

Gender Male **Student No.** 2019012373 **Student Type** Undergraduate **Date of Admission** August,2019

School/Department Institute for Interdisciplinary Information Sciences **Major** Computer Science and Technology

Course Number	Course Title	Credit	Grade	Point	Year-Semester
10430012	Complex Analysis	2	A-	4.0	2019-Spring
10430953	Lab.of Physics A(1)	3	A-	4.0	2019-Spring
10641042	Listening & Speaking for Academic Purposes (4)	2	B+	3.6	2019-Spring
10720021	Physical Education(2)	1	A	4.0	2019-Spring
20430225	Fundamentals of Physics (1)	5	A	4.0	2019-Spring
20430234	Fundamentals of Physics (2)	4	A	4.0	2019-Spring
30420095	Advanced Calculus(1)	5	A-	4.0	2019-Spring
30420105	Advanced Calculus(2)	5	A	4.0	2019-Spring
12090052	Military Theory	2	B+	3.6	2019-Summer
12090062	Military Skills	2	A-	4.0	2019-Summer
00240342	Introduction to Data Science	2	A-	4.0	2019-Autumn
00420152	Introduction of Mathematical Modelling	2	A	4.0	2019-Autumn
00782131	Introduction to Art Appreciation	1	P	N/A	2019-Autumn
10420803	Probability and Statistics	3	A	4.0	2019-Autumn
10610183	Ideological Moral and Legal Education	3	A-	4.0	2019-Autumn
10680011	Situation and Policy	1	B+	3.6	2019-Autumn
10691342	Writing and Communication	2	A	4.0	2019-Autumn
10720011	Physical Education(1)	1	A-	4.0	2019-Autumn
14205174	Japanese (Second Foreign Language) (1)	4	B+	3.6	2019-Autumn
20470044	Linear Algebra	4	B+	3.6	2019-Autumn
30470013	Introduction to Computer Science	3	B+	3.6	2019-Autumn
10610193	Outline of Modern Chinese History	3	B+	3.6	2020-Spring
10690013	Roads to Academic	3	B+	3.6	2020-Spring
20240033	Numerical Analysis	3	A-	4.0	2020-Spring
20470054	Abstract Algebra	4	A	4.0	2020-Spring
30250203	Data Structures	3	A-	4.0	2020-Spring
30470023	Mathematics for Computer Science	3	A	4.0	2020-Spring
30470293	Mathematics for Artificial Intelligence	3	A-	4.0	2020-Spring
40470284	Quantum Computer Science	4	A	4.0	2020-Spring
30470232	The Physics of Information	2	A	4.0	2020-Summer
30470312	Introduction to Databases	2	A	4.0	2020-Summer
00510433	Game,Decision Making and Queuing Theory	3	P	N/A	2020-Autumn
02070321	Communication Expression	1	P	N/A	2020-Autumn
10610204	Principle of Marxist Philosophy	4	B+	3.6	2020-Autumn
10720031	Physical Education(3)	1	A-	4.0	2020-Autumn
10720150	Swimming Competency Test	0	P	N/A	2020-Autumn
20470034	General Physics(2)(in English)	4	A	4.0	2020-Autumn
30470104	Machine learning	4	B+	3.6	2020-Autumn
30470124	Algorithm Design	4	B+	3.6	2020-Autumn
40470243	Artificial Intelligence: Principles and Techniques	3	A-	4.0	2020-Autumn
02090061	Shooting	1	W	N/A	2020-Autumn
20250153	Fundamentals of Digital Electronics	3	W	N/A	2020-Autumn
10680022	Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era	2	A-	4.0	2021-Spring

Total Credits: 173.0 **GPA:** 3.89

Date of Graduation: *****

Degree Conferred: *****

Director of Registrar's Office:



Official Seal:

Date Printed: October 1, 2022

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Student Name Chu Wenda

Gender Male **Student No.** 2019012373 **Student Type** Undergraduate **Date of Admission** August,2019

School/Department Institute for Interdisciplinary Information Sciences **Major** Computer Science and Technology

Course Number	Course Title	Credit	Grade	Point	Year-Semester
10680032	Introduction to Mao Zedong Thoughts and Theoretical System of Socialism with Chinese Characteristic	2	B+	3.6	2021-Spring
10680042	Introduction to Mao Zetong Thought and Socialism with Chinese Characteristics (2)	2	P	N/A	2021-Spring
10720041	Physical Education(4)	1	A-	4.0	2021-Spring
20470084	Computer Architecture	4	A-	4.0	2021-Spring
30470134	Theory of Computation	4	A	4.0	2021-Spring
30470154	Game Theory	4	A+	4.0	2021-Spring
40470024	Fundamentals of Cryptography	4	A-	4.0	2021-Spring
40470374	Distributed and Blockchain Systems	4	A-	4.0	2021-Spring
20470092	Introduction to Robotics	2	B-	3.0	2021-Summer
00510443	Introduction to Operations Research	3	A	4.0	2021-Autumn
00780461	Introduction to Piano and Music Rudiments	1	A-	4.0	2021-Autumn
10720110	Physical Education(1)	0	B+	3.6	2021-Autumn
20250153	Fundamentals of Digital Electronics	3	A-	4.0	2021-Autumn
30140012	Speciality-reading in English	2	P	N/A	2021-Autumn
30470084	Operating System	4	A-	4.0	2021-Autumn
30470113	Advanced Computer Graphics	3	B+	3.6	2021-Autumn
00690062	I-go and Chinese Culture	2	P	N/A	2022-Spring
10720120	Physical Education(2)	0	A-	4.0	2022-Spring
20470024	General Physics(1)(in English)	4	A	4.0	2022-Spring
40470382	Multimedia Computing	2	P	N/A	2022-Spring
80421154	Convex Optimization	4	A	4.0	2022-Spring
40470353	Computer Vision	3	W	N/A	2022-Spring
40470085	Research Immersion Training	5	A	4.0	2022-Summer

Total Credits: 173.0 **GPA:** 3.89

Date of Graduation: *****

Degree Conferred: *****

Director of Registrar's Office:

尹佳

Official Seal:

Date Printed: October 1, 2022

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-			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.

清华大学学生成绩单

姓名 储闻达

性别 男

学号 2019012373

学生类别 本科生

入学年月 2019年08月

院系 交叉信息研究院

专业 计算机科学与技术（计算机科学实验班
) 班级 计科92

课程号	课程名	学分	成绩	绩点	学年-学期
10430012	复变函数	2	A-	4.0	2019-春
10430953	基础物理实验A(1)	3	A-	4.0	2019-春
10641042	学术英语听说(4)一辩论	2	B+	3.6	2019-春
10720021	体育(2)	1	A	4.0	2019-春
20430225	基础物理学(1)	5	A	4.0	2019-春
20430234	基础物理学(2)	4	A	4.0	2019-春
30420095	高等微积分(1)	5	A-	4.0	2019-春
30420105	高等微积分(2)	5	A	4.0	2019-春
12090052	军事理论	2	B+	3.6	2019-夏
12090062	军事技能	2	A-	4.0	2019-夏
00240342	数据科学导论	2	A-	4.0	2019-秋
00420152	数学建模引论	2	A	4.0	2019-秋
00782131	艺术欣赏导论	1	P	N/A	2019-秋
10420803	概率论与数理统计	3	A	4.0	2019-秋
10610183	思想道德修养与法律基础	3	A-	4.0	2019-秋
10680011	形势与政策	1	B+	3.6	2019-秋
10691342	写作与沟通	2	A	4.0	2019-秋
10720011	体育(1)	1	A-	4.0	2019-秋
14205174	日语(第二外国语)(1)	4	B+	3.6	2019-秋
20470044	线性代数	4	B+	3.6	2019-秋
30470013	计算机入门	3	B+	3.6	2019-秋
10610193	中国近现代史纲要	3	B+	3.6	2020-春
10690013	学术之道	3	B+	3.6	2020-春
20240033	数值分析	3	A-	4.0	2020-春
20470054	抽象代数	4	A	4.0	2020-春
30250203	数据结构	3	A-	4.0	2020-春
30470023	计算机应用数学	3	A	4.0	2020-春
30470293	人工智能应用数学	3	A-	4.0	2020-春
40470284	量子计算机科学	4	A	4.0	2020-春
30470232	信息物理	2	A	4.0	2020-夏
30470312	数据库系统概论	2	A	4.0	2020-夏
00510433	对策、决策与排队论	3	P	N/A	2020-秋
02070321	沟通表达基础与进阶	1	P	N/A	2020-秋
10610204	马克思主义基本原理	4	B+	3.6	2020-秋
10720031	体育(3)	1	A-	4.0	2020-秋
10720150	游泳测试	0	P	N/A	2020-秋
20470034	普通物理(2)(英)	4	A	4.0	2020-秋
30470104	机器学习	4	B+	3.6	2020-秋
30470124	算法设计	4	B+	3.6	2020-秋
40470243	人工智能:原理与技术	3	A-	4.0	2020-秋
02090061	射击	1	W	N/A	2020-秋
20250153	数字电子技术基础B	3	W	N/A	2020-秋
10680022	习近平新时代中国特色社会主义思想概论	2	A-	4.0	2021-春
10680032	毛泽东思想和中国特色社会主义理论体系概论(1)	2	B+	3.6	2021-春

总学分: 173.0

平均学分绩: 3.89

毕业年月: *****

获得学位: *****

注册中心主任签字:

尹佳

注册中心专用章:

打印日期: 2022-10-01

清华大学学生成绩单

姓名 储闻达
性别 男 学号 2019012373 学生类别 本科生 入学年月 2019年08月
院系 交叉信息研究院 专业 计算机科学与技术（计算机科学实验班 班级 计科92
)

课程号	课程名	学分	成绩	绩点	学年-学期
10680042	毛泽东思想和中国特色社会主义理论体系概论(2)	2	P	N/A	2021-春
10720041	体育(4)	1	A-	4.0	2021-春
20470084	计算机系统结构	4	A-	4.0	2021-春
30470134	计算理论	4	A	4.0	2021-春
30470154	博弈论	4	A+	4.0	2021-春
40470024	密码学基础	4	A-	4.0	2021-春
40470374	分布式与区块链系统	4	A-	4.0	2021-春
20470092	机器人学导论	2	B-	3.0	2021-夏
00510443	运筹学基础	3	A	4.0	2021-秋
00780461	钢琴入门与音乐基础	1	A-	4.0	2021-秋
10720110	体育专项(1)	0	B+	3.6	2021-秋
20250153	数字电子技术基础B	3	A-	4.0	2021-秋
30140012	专业英语阅读	2	P	N/A	2021-秋
30470084	操作系统	4	A-	4.0	2021-秋
30470113	高等计算机图形学	3	B+	3.6	2021-秋
00690062	围棋与中国文化	2	P	N/A	2022-春
10720120	体育专项(2)	0	A-	4.0	2022-春
20470024	普通物理(1)(英)	4	A	4.0	2022-春
40470382	多媒体计算	2	P	N/A	2022-春
80421154	凸优化	4	A	4.0	2022-春
40470353	计算机视觉	3	W	N/A	2022-春
40470085	专题训练实践	5	A	4.0	2022-夏

总学分: 173.0 平均学分绩: 3.89 毕业年月: ***** 获得学位: *****

注册中心主任签字:

尹佳

注册中心专用章:

打印日期: 2022-10-01

成绩单说明

一、课程编号由 8-10 位字符组成，首字符表示其课程类型。

0-4 或 H-T、W 为本科生课程；6-9、A-G 或 X-Z 为研究生课程

二、学分：原则上理论课 16 学时记为 1 学分，实验课 32 学时记为 1 学分

三、成绩数据以*****表示结束

四、毕业年月和学位

毕业前，毕业年月和获得学位处为*****（适用于本科生）

五、成绩记载说明

1) 2015 年及以后入学的学生

(1) 采用等级制方式记载课程成绩。

(2) 课程成绩为 A+、A、A-、B+、B、B-、C+、C、C-、D+、D、P、EX 时，取得课程学分。

(3) W：退课

(4) I：课程未完成。仅在课程考核（考试或考查）期间因故不能参加考核环节，提出缓考申请，经教学主管部门批准后记载。

(5) EX：免修，免修课程可取得课程学分。

等级制成绩	绩点	对应百分制成绩范围	对等百分制成绩*
A+	4.0	95-100	100
A			98
A-			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

* 在 2015-2018 年从百分制到等级制方式评定和记载课程成绩的改革过渡期中，学校提供百分制成绩转为等级制成绩的对应关系（等级-对应百分制成绩范围）。同时，为科学客观地体现过渡期间入学学生的学业表现，学校出具每门课程等级制成绩的对等百分制成绩（为获得学分的课程等级-对应百分制成绩范围的中值）。2019 年及以后入学的学生不再提供等级-对应百分制成绩范围及对等百分制成绩。

2) 2014 年及以前入学的学生

(1) 采用百分制方式记载课程成绩。

(2) 60 分及以上为及格，取得课程学分。

(3) 通过/不通过：通过，取得课程学分。

优秀（仅适用于本科生）：取得课程学分。

(4) 重修：在成绩单中只记载最新一次重修成绩，“重 n”表示重修 n 次。

六、学业评价体系改革

2015 年之前的十年间，清华大学学生的课程成绩优秀率保持在 30%左右。从 2015 年秋季学期开始，学校启动学业评价体系改革，设置等级制课程成绩优秀率（即 A-及以上等级成绩）指标为 20%。从 2019 年春季学期开始，学校进一步深化完善学业评价体系改革方案，不再设置课程成绩优秀率指标。

七、平均学分绩（GPA）

对 2015 年及以后入学的学生，成绩单上出具等级制课程成绩的平均学分绩（GPA），计算方法为：

$$GPA = \frac{\sum \text{课程学分} * \text{绩点}}{\sum \text{课程学分}}$$

N/A 表示无绩点，不参与 GPA 计算。