TSINGHUA UNIVERSITY
ACADEMIC TRANSCRIPT

Student Name Gao Xiang

Gender Male   **Student No.** 2022010753   **Student Type** Undergraduate   **Date of Admission** August,2022

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

Course Number	Course Title	Credit	Grade	Point	Year-Semester
12090052	Military Theory	2	A-	4.0	2022-Summer
12090062	Military Skills	2	B+	3.6	2022-Summer
00680211	History of Reform and Opening-up(Four Histories")	1	P	N/A	2022-Autumn
10421055	Calculus A(1)	5	A+	4.0	2022-Autumn
10680053	Ideology,Morality and Rule of Law	3	A-	4.0	2022-Autumn
10680101	Situation and Policy (1)	1	P	N/A	2022-Autumn
10691342	Writing and Communication	2	A	4.0	2022-Autumn
10720011	Physical Education(1)	1	B	3.3	2022-Autumn
20470044	Linear Algebra	4	B	3.3	2022-Autumn
20470073	Introduction to Artificial Intelligence	3	B	3.3	2022-Autumn
30470013	Introduction to Computer Science	3	B+	3.6	2022-Autumn
30470332	Introduction to Programming in C/C++	2	A+	4.0	2022-Autumn
00230202	Light-based Technologies: Bettered life on Earth	2	P	N/A	2023-Spring
10421065	Calculus A(2)	5	A	4.0	2023-Spring
10610193	Outline of Modern Chinese History	3	A	4.0	2023-Spring
10680131	Situation and Policy II	1	P	N/A	2023-Spring
10690013	Roads to Academic	3	B+	3.6	2023-Spring
10720021	Physical Education(2)	1	B	3.3	2023-Spring
14204062	A Practical Course of E-C and C-E Translation	2	A-	4.0	2023-Spring
20470024	General Physics(1)(in English)	4	B+	3.6	2023-Spring
20470054	Abstract Algebra	4	A-	4.0	2023-Spring
30470023	Mathematics for Computer Science	3	A-	4.0	2023-Spring
30470324	Introduction to Computer Systems	4	A	4.0	2023-Spring
10680092	Ideological and political practice	2	P	N/A	2023-Summer
20470062	Algebra and Computation	2	EX	N/A	2023-Summer
20470132	Type-safe Modern System Practice	2	EX	N/A	2023-Summer
00000171	Modern Chinese Architecture and Urbanism: Building Types and Aesthetic Styles in the Global Context	1	A	4.0	2023-Autumn
02090091	High Technology in Modern Local War	1	A-	4.0	2023-Autumn
10680073	Basic Principles of Marxism	3	B+	3.6	2023-Autumn
10720031	Physical Education(3)	1	B-	3.0	2023-Autumn
10720150	Swimming Competency Test	0	P	N/A	2023-Autumn
10780012	History of Musical Theater	2	P	N/A	2023-Autumn
20470034	General Physics(2)(in English)	4	A-	4.0	2023-Autumn
20470084	Computer Architecture	4	A	4.0	2023-Autumn
30470104	Machine learning	4	B+	3.6	2023-Autumn
30470124	Algorithm Design	4	B-	3.0	2023-Autumn
PK01231130	Introduction to Economy of Mineral Resources	2	B+	3.6	2023-Autumn
10680022	Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era	2	B+	3.6	2024-Spring
10680142	Introduction to MaoZedong Thought and the Theoretical System of Socialism with Chinese Characterist	2	A-	4.0	2024-Spring
10720041	Physical Education(4)	1	B	3.3	2024-Spring
20240033	Numerical Analysis	3	A	4.0	2024-Spring
30470134	Theory of Computation	4	A-	4.0	2024-Spring

Total Credits: 126.0   **GPA:** 3.79   **Date of Graduation:** **********   **Degree Conferred:** *******

Director of Registrar's Office: 刘泳

Official Seal:

Date Printed: May 26, 2025

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TSINGHUA UNIVERSITY
ACADEMIC TRANSCRIPT

Student Name Gao Xiang

Gender Male   **Student No.** 2022010753   **Student Type** Undergraduate   **Date of Admission** August,2022

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

Course Number	Course Title	Credit	Grade	Point	Year-Semester
30470154	Game Theory	4	A	4.0	2024-Spring
40470284	Quantum Computer Science	4	B+	3.6	2024-Spring
40470414	Database Systems	4	W	N/A	2024-Spring
20470112	AI+X Computing Acceleration: From Algorithms Development, Analysis, to Deployment	2	A	4.0	2024-Summer
00690022	Sino-European Relations in Ancient Time	2	A-	4.0	2024-Autumn
10720110	Physical Education(1)	0	D+	1.6	2024-Autumn
14203012	Cross-culture Communion	2	B+	3.6	2024-Autumn
30470113	Advanced Computer Graphics	3	A-	4.0	2024-Autumn
40470434	Operating Systems and Distributed Systems	4	A	4.0	2024-Autumn

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Total Credits: 126.0   **GPA:** 3.79   **Date of Graduation:** **********   **Degree Conferred:** *******

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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

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

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.