# TSINGHUA UNIVERSITY **ACADEMIC TRANSCRIPT**

Student Name Chen Chang

**Gender** Female **Student No.** 2022010859 Student Type Undergraduate Date of Admission August, 2022

School/Department Department of Computer Science and Major Computer Science and Technology

Technology

12090062   Military Skills   2	Course Number	Course Title	Credit	Grade	Point	Year-Semester
O0680231	12090052	Military Theory	2	B-	3.0	2022-Summer
102070012	12090062			A-	4.0	2022-Summer
10240022	00680231	•		A-	4.0	2022-Autumn
10421055	02070012	Introduction to the Communist Party of China	2	P	N/A	2022-Autumn
10421324	10240022	Fundamentals of Computer Science	2	P	N/A	2022-Autumn
10680053   Ideology,Morality and Rule of Law   3	10421055	Calculus A(1)	5	A-	4.0	2022-Autumn
10680101   Situation and Policy (1)   1   P   N/A   2022-Autun   10720011   Physical Education(1)   1   B+   3.6   2022-Autun   202401032   English for Academic Purposes (A): Spoken Communication   2   A-   4.0   2022-Autun   20240233   Fundamentals of Programming   3   B+   3.6   2022-Autun   30240233   Fundamentals of Programming   3   B+   3.6   2022-Autun   30240265   Calculus A(2)   5   B+   3.6   2023-Sprin   10421065   Calculus A(2)   5   B+   3.6   2023-Sprin   10421085   Advanced Topics in Linear Algebra   2   C+   2.6   2023-Sprin   10430484   Physics for Scientists and Engineers B(1)   4   B-   3.0   2023-Sprin   106910342   Writing and Communication   2   B+   3.6   2023-Sprin   10691572   Rules and Forms of Poetic Composition in Chinese Classical   2   A-   4.0   2023-Sprin   Style   10720021   Physical Education(2)   1   A-   4.0   2023-Sprin   10720021   Physical Education(2)   1   A-   4.0   2023-Sprin   20240023   Discrete Mathematics(2)   3   B   3.3   2023-Sprin   20240532   Foundation of Object-Oriented Programming   2   B+   3.6   2023-Sprin   20240532   Programming and Training   2   A-   4.0   2023-Sumr   20270071   Mental Training and Latent Ability Developing   1   A-   4.0   2023-Autun   10420252   Introduction to Complex Analysis   2   A+   4.0   2023-Autun   10430494   Physics for Scientists and Engineers B(2)   4   B   3.3   2023-Autun   10460032   Global Climate Change   2   A-   4.0   2023-Autun   10460032   Global Climate Change   2   A-   4.0   2023-Autun   10400444   Physics for Scientists and Engineers B(2)   4   B   3.3   2023-Autun   1042053   Introduction to Complex Analysis   3   B-   3.6   2023-Autun   2020031   Physical Education(3)   1   B+   3.6   2023-Autun   2020031   Physical Education(3)   2   A-   4.0   2023-Autun   2020031   Physical Education   2   A-   4.0	10421324	Linear Algebra	4	A	4.0	2022-Autumn
10720011	10680053	Ideology, Morality and Rule of Law	3	A-	4.0	2022-Autumn
14201092   English for Academic Purposes (A): Spoken Communication   2	10680101	Situation and Policy (1)	1	P	N/A	2022-Autumn
Discrete Mathematics(1)   3	10720011	Physical Education(1)	1	B+	3.6	2022-Autumn
30240233         Fundamentals of Programming         3         B+         3.6         2022-Autum           00782311         Appreciation and Analysis of Western Classical Opera         1         P         N/A         2023-Sprin           10421065         Calculus A(2)         5         B+         3.6         2023-Sprin           10421382         Advanced Topics in Linear Algebra         2         C+         2.6         2023-Sprin           10430484         Physics for Scientists and Engineers B(1)         4         B-         3.0         2023-Sprin           10691342         Writing and Communication         2         B+         3.6         2023-Sprin           10691572         Rules and Forms of Poetic Composition in Chinese Classical Style         2         A-         4.0         2023-Sprin           10720021         Physical Education(2)         1         A-         4.0         2023-Sprin           10720021         Physical Education(2)         1         A-         4.0         2023-Sprin           10720021         Physical Education(2)         3         B         3.6         2023-Sprin           10720021         Physical Education(2)         3         B         3.6         2023-Sprin           10720021	14201092	English for Academic Purposes (A): Spoken Communication	2	A-	4.0	2022-Autumn
00782311         Appreciation and Analysis of Western Classical Opera         1         P         N/A         2023-Sprin           10421065         Calculus A(2)         5         B+         3.6         2023-Sprin           10421382         Advanced Topics in Linear Algebra         2         C+         2.6         2023-Sprin           10430484         Physics for Scientists and Engineers B(1)         4         B-         3.0         2023-Sprin           10610193         Outline of Modern Chinese History         3         A-         4.0         2023-Sprin           10691342         Writing and Communication         2         B+         3.6         2023-Sprin           10691572         Rules and Forms of Poetic Composition in Chinese Classical Style         2         A-         4.0         2023-Sprin           10720021         Physical Education(2)         1         A-         4.0         2023-Sprin           10720022         English for Academic Purposes (A): Research Paper Writing         2         B+         3.6         2023-Sprin           10720032         Discrete Mathematics(2)         3         B         3.3         2023-Sprin           10680092         Ideological and political practice         2         P         N/A         2023-Sprin </td <td>20240013</td> <td>Discrete Mathematics(1)</td> <td>3</td> <td>В</td> <td>3.3</td> <td>2022-Autumn</td>	20240013	Discrete Mathematics(1)	3	В	3.3	2022-Autumn
10421065	30240233	Fundamentals of Programming	3	B+	3.6	2022-Autumn
10421065	00782311	Appreciation and Analysis of Western Classical Opera	1	P	N/A	2023-Spring
10421382	10421065		5	B+	3.6	2023-Spring
10430484         Physics for Scientists and Engineers B(1)         4         B-         3.0         2023-Sprin           10610193         Outline of Modern Chinese History         3         A-         4.0         2023-Sprin           10691342         Writing and Communication         2         B+         3.6         2023-Sprin           10691572         Rules and Forms of Poetic Composition in Chinese Classical Style         2         A-         4.0         2023-Sprin           10720021         Physical Education(2)         1         A-         4.0         2023-Sprin           14201082         English for Academic Purposes (A): Research Paper Writing         2         B+         3.6         2023-Sprin           20240023         Discrete Mathematics(2)         3         B         3.3         2023-Sprin           30240532         Foundation of Object-Oriented Programming         2         B+         3.6         2023-Sprin           30240522         Programing and Training         2         A-         4.0         2023-Sumr           30240522         Programing and Latent Ability Developing         1         A-         4.0         2023-Sumr           10420525         Introduction to Complex Analysis         2         A+         4.0         2023-Autu <td>10421382</td> <td></td> <td>2</td> <td>C+</td> <td></td> <td>2023-Spring</td>	10421382		2	C+		2023-Spring
10610193	10430484			B-		2023-Spring
10691342   Writing and Communication   2	10610193	- · · · · · · · · · · · · · · · · · · ·		A-		2023-Spring
10691572   Rules and Forms of Poetic Composition in Chinese Classical Style   2		<del>-</del>		B+		2023-Spring
10720021         Physical Education(2)         1         A-         4.0         2023-Sprin           14201082         English for Academic Purposes (A): Research Paper Writing         2         B+         3.6         2023-Sprin           20240023         Discrete Mathematics(2)         3         B         3.3         2023-Sprin           30240532         Foundation of Object-Oriented Programming         2         B+         3.6         2023-Sprin           10680092         Ideological and political practice         2         P         N/A         2023-Sumr           30240522         Programing and Training         2         A-         4.0         2023-Sumr           02070071         Mental Training and Latent Ability Developing         1         A-         4.0         2023-Autu           10420252         Introduction to Complex Analysis         2         A+         4.0         2023-Autu           10430494         Physics for Scientists and Engineers B(2)         4         B         3.3         2023-Autu           10680073         Basic Principles of Marxism         3         A         4.0         2023-Autu           10720031         Physical Education(3)         1         B+         3.6         2023-Autu           30240593	10691572	Rules and Forms of Poetic Composition in Chinese Classical	2	A-		2023-Spring
14201082         English for Academic Purposes (A): Research Paper Writing         2         B+         3.6         2023-Sprin           20240023         Discrete Mathematics(2)         3         B         3.3         2023-Sprin           30240532         Foundation of Object-Oriented Programming         2         B+         3.6         2023-Sprin           10680092         Ideological and political practice         2         P         N/A         2023-Sumr           30240522         Programing and Training         2         A-         4.0         2023-Sumr           02070071         Mental Training and Latent Ability Developing         1         A-         4.0         2023-Autur           10420252         Introduction to Complex Analysis         2         A+         4.0         2023-Autur           10460032         Global Climate Change         2         A-         4.0         2023-Autur           10680073         Basic Principles of Marxism         3         A         4.0         2023-Autur           30240184         Data Structures         4         B         3.3         2023-Autur           30240593         Introduction to Computer Systems         3         B-         3.0         2023-Autur           40240432	10720021		1	Α_	4.0	2023-Spring
20240023         Discrete Mathematics(2)         3         B         3.3         2023-Sprin           30240532         Foundation of Object-Oriented Programming         2         B+         3.6         2023-Sprin           10680092         Ideological and political practice         2         P         N/A         2023-Sumr           30240522         Programing and Training         2         A-         4.0         2023-Sumr           02070071         Mental Training and Latent Ability Developing         1         A-         4.0         2023-Autu           10420252         Introduction to Complex Analysis         2         A+         4.0         2023-Autu           10430494         Physics for Scientists and Engineers B(2)         4         B         3.3         2023-Autu           10680073         Basic Principles of Marxism         3         A         4.0         2023-Autu           10720031         Physical Education(3)         1         B+         3.6         2023-Autu           30240184         Data Structures         4         B         3.3         2023-Autu           40240432         Formal Languages and Automata         2         B         3.3         2023-Autu           02070251         Career Planning and						
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10430494         Physics for Scientists and Engineers B(2)         4         B         3.3         2023-Autur           10460032         Global Climate Change         2         A-         4.0         2023-Autur           10680073         Basic Principles of Marxism         3         A         4.0         2023-Autur           10720031         Physical Education(3)         1         B+         3.6         2023-Autur           30240184         Data Structures         4         B         3.3         2023-Autur           30240593         Introduction to Computer Systems         3         B-         3.0         2023-Autur           40240432         Formal Languages and Automata         2         B         3.3         2023-Autur           00701653         Movie and Politics         3         W         N/A         2023-Autur           02070251         Career Planning and development         1         B+         3.6         2024-Sprin           02090051         The Series Course of The Present National Defence         1         A-         4.0         2024-Sprin           10680022         Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era         2         A-         4.0         2024-Sprin						
10460032         Global Climate Change         2         A-         4.0         2023-Autur           10680073         Basic Principles of Marxism         3         A         4.0         2023-Autur           10720031         Physical Education(3)         1         B+         3.6         2023-Autur           30240184         Data Structures         4         B         3.3         2023-Autur           30240593         Introduction to Computer Systems         3         B-         3.0         2023-Autur           40240432         Formal Languages and Automata         2         B         3.3         2023-Autur           00701653         Movie and Politics         3         W         N/A         2023-Autur           02070251         Career Planning and development         1         B+         3.6         2024-Sprin           02090051         The Series Course of The Present National Defence         1         A-         4.0         2024-Sprin           10420803         Probability and Statistics         3         B+         3.6         2024-Sprin           10680022         Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era         2         A-         4.0         2024-Sprin						
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10720031         Physical Education(3)         1         B+         3.6         2023-Autur           30240184         Data Structures         4         B         3.3         2023-Autur           30240593         Introduction to Computer Systems         3         B-         3.0         2023-Autur           40240432         Formal Languages and Automata         2         B         3.3         2023-Autur           00701653         Movie and Politics         3         W         N/A         2023-Autur           02070251         Career Planning and development         1         B+         3.6         2024-Sprin           02090051         The Series Course of The Present National Defence         1         A-         4.0         2024-Sprin           10420803         Probability and Statistics         3         B+         3.6         2024-Sprin           10680022         Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era         2         A-         4.0         2024-Sprin						
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30240593         Introduction to Computer Systems         3         B-         3.0         2023-Autur           40240432         Formal Languages and Automata         2         B         3.3         2023-Autur           00701653         Movie and Politics         3         W         N/A         2023-Autur           02070251         Career Planning and development         1         B+         3.6         2024-Sprin           02090051         The Series Course of The Present National Defence         1         A-         4.0         2024-Sprin           10420803         Probability and Statistics         3         B+         3.6         2024-Sprin           10680022         Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era         2         A-         4.0         2024-Sprin		-				
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10680142 Introduction to MaoZedong Thought and the Theoretical System 2 A- 4.0 2024-Sprin of Socialism with Chinese Characterist	10680142	Introduction to MaoZedong Thought and the Theoretical System of Socialism with Chinese Characterist	2	A-	4.0	2024-Spring

Date of Graduation: \*\*\*\*\*\*\* Degree Conferred: \*\*\*\*\*\* **Total Credits:** 121.0 **GPA:** 3.63



Official Seal:

Date Printed: February 2, 2025

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# **TSINGHUA UNIVERSITY ACADEMIC TRANSCRIPT**

Student Name Chen Chang

Gender Female Student No. 2022010859 Student Type Undergraduate Date of Admission August, 2022

School/Department Department of Computer Science and Major Computer Science and Technology

Technology

Course Number	r Course Title	Credit	Grade	Point	Year-Semester
10720041	Physical Education(4)	1	C+	2.6	2024-Spring
14203112	Art English(2)	2	B+	3.6	2024-Spring
14203562	Understanding Public Speaking	2	B+	3.6	2024-Spring
30240042	Introduction to Artificial Intelligence	2	В	3.3	2024-Spring
30240163	Software Engineering	3	A-	4.0	2024-Spring
30240343	Digital Logic Circuit	3	A	4.0	2024-Spring
30240551	Digital Logic Experimentation	1	В	3.3	2024-Spring
40240422	Fundamentals of Computer Graphics	2	B+	3.6	2024-Spring
00030342	Principles and Experience of Intelligent Construction for Blocks	2	W	N/A	2024-Spring
00780461	Introduction to Piano and Music Rudiments	1	B+	3.6	2024-Autumn
10720110	Physical Education(1)	0	F	0.0	2024-Autumn
20240082	Elementary Number Theory	2	B+	3.6	2024-Autumn
30240063	Principles of Signal Processing	3	B-	3.0	2024-Autumn
30240292	Human Computer Interaction Theory and Technology	2	A	4.0	2024-Autumn
30240382	Principles and Practice of Compiler Construction	2	B+	3.6	2024-Autumn
40240572	Computer Network Security Technology	2	A	4.0	2024-Autumn
40240513	Computer Network ********	3	I	N/A	2024-Autumn

Date of Graduation: \*\*\*\*\*\*\* Degree Conferred: \*\*\*\*\*\* **Total Credits:** 121.0 **GPA:** 3.63

Director of Registrar's Office: 刻 ネ

Official Seal:

Date Printed: February 2, 2025

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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+		05.100	100
Α	4.0	95-100	98
A-		90-94	92
B+	3.6	85-89	87
В	3.3	80-84	82
B-	3.0	77-79	78
C+	2.6	73-76	75
С	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
Р	N/A	N/A	N/A
F	N/A	N/A	N/A

<sup>\*</sup> 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.