TSINGHUA UNIVERSITY **ACADEMIC TRANSCRIPT**

Student Name Zuo Jingwei

Gender Male **Student No.** 2021012328 Student Type Undergraduate Date of Admission September, 2021

School/Department Weiyang College Major Mathematics and Physics + Electrical Engineering and Automation

O2070012	Course Number	r Course Title	Credit	Grade	Point	Year-Semester
10421055	00320201	Exploration of Secrets in Healthcare-related Physics	1	A	4.0	2021-Autumn
10421324	02070012			P	N/A	2021-Autumn
10680053 Ideology_Morality and Rule of Law 3 B 3.3 2021-Autu 10691342 Writing and Communication 2 B+ 3.6 2021-Autu 10720011 Physical Education(1) 1 B+ 3.6 2021-Autu 10720012 Military Theory 2 B 3.3 2021-Autu 12090052 Military Theory 2 B 3.3 2021-Autu 12090052 Military Theory 2 B 3.3 2021-Autu 14730012 Introduction of Engineering in Weiyang College 2 B+ 3.6 2021-Autu 14730012 Fundamentals of Computer Program Design 2 A+ 4.0 2021-Autu 14205094 Russian (Second Foreign Language) (1) 4 W N/A 2021-Autu 14205094 Russian (Second Foreign Language) (1) 4 W N/A 2021-Autu 100040132 Gemstone 2 B+ 3.6 2022-Sprin 10421065 Calculus A(2) 5 A- 4.0 2022-Sprin 10430632 Lab. of Physics(1) 2 A- 4.0 2022-Sprin 10610193 Outline of Modern Chinese History 3 P N/A 2022-Sprin 10720021 Physical Education(2) 1 A- 4.0 2022-Sprin 10720021 Physical Education(2) 1 P N/A 2022-Sprin 10720021 Physical Education(2) 1 P N/A 2022-Sprin 10720021 Education of Socialism with Chinese Characterist2 20220214 Principle of Circuits 4 A+ 4.0 2022-Sprin 10680042 Introduction to MaoZeclong Thought and the Theoretical System 5 N/A 2022-Summ 20220372 Project Based Training Course on Software Programming 2 P N/A 2022-Summ 20220372 Project Based Training Course on Software Programming 2 P N/A 2022-Autu 10431042 Lab. of Physics (3) 2 A 4.0 2022-Autu 10431042 Lab. of Physics (3) 2 A 4.0 2022-Autu 10431042 Lab. of Physics (3) 2 A 4.0 2022-Autu 1043024 Education (3) 2 A 4.0 2022-Autu 1043024 Eucation (5) Euchtonic Technology 1 A 4.0 2022-Autu 20220511 Experiments of Electronic Technology 1 A 4.0 2022-Autu 20220544 Eucation (6) Euchtonic Technology 1 A 4.0 2022-Autu 20220544 Eucation (6) Euchtonic Technology 1 A 4.0 2022-Autu 2022054	10421055	Calculus A(1)	5	A	4.0	2021-Autumn
10691342 Writing and Communication	10421324	Linear Algebra	4	A	4.0	2021-Autumn
10720011	10680053	Ideology, Morality and Rule of Law	3	В	3.3	2021-Autumn
12090052	10691342	Writing and Communication	2	\mathbf{B} +	3.6	2021-Autumn
14730012	10720011	Physical Education(1)	1	\mathbf{B} +	3.6	2021-Autumn
30220392 Fundamentals of Computer Program Design 2	12090052	Military Theory	2	В	3.3	2021-Autumn
14205094 Russian (Second Foreign Language) (1)	14730012	Introduction of Engineering in Weiyang College	2	B+	3.6	2021-Autumn
00040132 Gemstone 2 B+ 3.6 2022-Sprin 10421065 Calculus A(2) 5 A- 4.0 2022-Sprin 10430632 Lab. of Physics(1) 2 A- 4.0 2022-Sprin 10610193 Outline of Modern Chinese History 3 P N/A 2022-Sprin 10720021 Physical Education(2) 1 A- 4.0 2022-Sprin 14730111 Seminar on Science, Technology and Humanities 1 A- 4.0 2022-Sprin 20220214 Principle of Circuits 4 A+ 4.0 2022-Sprin 20220211 Lab. of Principle of Circuits 1 A 4.0 2022-Sprin 20220211 Lab. of Principle of Circuits 1 A 4.0 2022-Sprin 20220211 Lab. of Principle of Circuits 1 A 4.0 2022-Sprin 20430225 Fundamentals of Physics (1) 5 A 4.0 2022-Sprin 20220411 Introduction to MacZedong Thought and the Theoretical System	30220392	Fundamentals of Computer Program Design	2	A+	4.0	2021-Autumn
10421065	14205094	Russian (Second Foreign Language) (1)	4	W	N/A	2021-Autumn
10430632	00040132	Gemstone	2	B+	3.6	2022-Spring
10610193	10421065	Calculus A(2)	5	A-	4.0	2022-Spring
1	10430632	Lab. of Physics(1)	2	A-	4.0	2022-Spring
10720021 Physical Education(2) 1 P N/A 2022-Sprin 14730111 Seminar on Science, Technology and Humanities 1 A- 4.0 2022-Sprin 20220214 Principle of Circuits 4 A+ 4.0 2022-Sprin 20220221 Lab. of Principle of Circuits 1 A 4.0 2022-Sprin 20220221 Lab. of Principle of Circuits 1 A 4.0 2022-Sprin 20230225 Fundamentals of Physics (1) 5 A 4.0 2022-Sprin 10680042 Introduction to MacZedong Thought and the Theoretical System 2 P N/A 2022-Sumr 20220471 Embedded System Applications 1 P N/A 2022-Sumr 30220372 Project Based Training Course on Software Programming 2 P N/A 2022-Sumr 30220461 Introduction to Microcontroller 1 P N/A 2022-Sumr 30220461 Introduction to Optimization and Decision Theory of Energy 2 P N/A 2022-Sumr 20220462 Introduction to Optimization and Decision Theory of Energy 2 P N/A 2022-Autu 30220461 Introduction to Optimization and Decision Theory of Energy 2 P N/A 2022-Autu 10421373 Probability and Stochastic Processes 3 A- 4.0 2022-Autu 10431042 Lab. of Physics (3) 2 A 4.0 2022-Autu 10610204 Principle of Marxist Philosophy 4 A 4.0 2022-Autu 10720031 Physical Education(3) 1 A 4.0 2022-Autu 20120152 Fundamentals of Engineering Graphics 2 A 4.0 2022-Autu 20220504 Foundations of Electronic Technology 4 A 4.0 2022-Autu 20220511 Experiments of Electronic Technology 1 A 4.0 2022-Autu 20240042 Fundamentals about Power System Operation and Management 2 A 4.0 2022-Autu 30220422 Fundamentals about Power System Operation and Management 2 A 4.0 2023-Sprin 20782321 Foundation of Vocal Music 1 A 4.0 2023-Sprin 10480022 Introduction to Xi Jinping Thought on Socialism with Chinese 2 A 4.0 2023-Sprin 10480022 Introduction to Xi Jinping Thought on Socialism with Chinese 2 A 4.0 2023-S	10610193	Outline of Modern Chinese History	3	P	N/A	2022-Spring
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20220214 Principle of Circuits 4 A+ 4.0 2022-Sprin 20220221 Lab. of Principle of Circuits 1 A 4.0 2022-Sprin 20430225 Fundamentals of Physics (1) 5 A 4.0 2022-Sprin 10680042 Introduction to MaoZedong Thought and the Theoretical System of Socialism with Chinese Characterist2 2 P N/A 2022-Summ of Socialism with Chinese Characterist2 20220471 Embedded System Applications 1 P N/A 2022-Summ of Socialism with Chinese Characterist2 20220471 Embedded System Applications 1 P N/A 2022-Summ of Socialism with Chinese Characterist2 2020372 Project Based Training Course on Software Programming 2 P N/A 2022-Summ of Socialism with Chinese Characterist2 2020401 Introduction to Optimization and Decision Theory of Energy Systems 2 P N/A 2022-Summ of Socialism with Chinese Characterist2 10421373 Probability and Stochastic Processes 3 A- 4.0 2022-Autu O22-Autu O2137-Autu O2021 10431042 Lab. of Physics (3) 1<	10720021	Physical Education(2)	1	P	N/A	2022-Spring
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of Socialism with Chinese Characterist2 20220471 Embedded System Applications 1 P N/A 2022-Summ 30220372 Project Based Training Course on Software Programming 2 P N/A 2022-Summ 30220461 Introduction to Microcontroller 1 P N/A 2022-Summ 00220162 Introduction to Optimization and Decision Theory of Energy Systems 10421373 Probability and Stochastic Processes 3 A- 4.0 2022-Autur 10431042 Lab. of Physics (3) 2 A 4.0 2022-Autur 10610204 Principle of Marxist Philosophy 4 A 4.0 2022-Autur 10720031 Physical Education(3) 1 A 4.0 2022-Autur 20120152 Fundamentals of Engineering Graphics 2 A 4.0 2022-Autur 20220504 Foundations of Electronic Technology 4 A- 4.0 2022-Autur 20220511 Experiments of Electronic Technology 1 A 4.0 2022-Autur 30220422 Fundamentals of Physics (3) 5 A- 4.0 2022-Autur 30220422 Fundamentals about Power System Operation and Management 2 A- 4.0 2022-Autur 30220422 Fundamentals about Power System Operation and Management 2 A- 4.0 2022-Autur 30220422 Fundamentals about Power System Operation and Management 2 A- 4.0 2022-Autur 30220422 Fundamentals about Power System Operation and Management 2 A- 4.0 2023-Sprin 3028221 Foundation of Vocal Music 1 A- 4.0 2023-Sprin 3028221 Foundation of Vocal Music 1 A- 4.0 2023-Sprin 3028042 Lab. of Physics(2) 2 A 4.0 2023-Sprin 3048062 Lab. of Physics(2) 2 A 4.0 2023-Sprin 30680022 Introduction to Xi Jinping Thought on Socialism with Chinese 2 A- 4.0 2023-Sprin 3028022 Introduction to Xi Jinping Thought on Socialism with Chinese 2 A- 4.0 2023-Sprin 3028023-Sprin 3028022-Sprin 3028023-Sprin	20430225	Fundamentals of Physics (1)	5	A	4.0	2022-Spring
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10610204 Principle of Marxist Philosophy 4 A 4.0 2022-Auturent 2022-Auturent 20120152 20120152 Fundamentals of Engineering Graphics 2 A 4.0 2022-Auturent 2022-Auturent 20220504 20220504 Foundations of Electronic Technology 4 A- 4.0 2022-Auturent 2022-Aut	10421373	Probability and Stochastic Processes	3	A-	4.0	2022-Autumn
10720031 Physical Education(3) 1 A 4.0 2022-Auturent 2022-Auturent 20220504 20220504 Foundations of Electronic Technology 4 A- 4.0 2022-Auturent 2022-A	10431042	Lab. of Physics (3)	2	A	4.0	2022-Autumn
20120152 Fundamentals of Engineering Graphics 2 A 4.0 2022-Auturental 2022-Auturen	10610204	Principle of Marxist Philosophy	4	A	4.0	2022-Autumn
20220504 Foundations of Electronic Technology 4 A- 4.0 2022-Auturents of Electronic Technology 20430265 Fundamentals of Physics (3) 5 A- 4.0 2022-Auturents of Electronic Technology 30220422 Fundamentals about Power System Operation and Management Operation and Management Operation and Architecture Occupants of Electronic Technology 2 A- 4.0 2022-Auturents of Electronic Technology 4 A- 4.0 2022-Auturents of Electronic Technology 2 A- 4.0 2022-Auturents of Electronic Technology 30220422 Fundamentals of Physics (3) 5 A- 4.0 2022-Auturents of Electronic Technology 00240094 Computer Organization and Architecture 4 A 4.0 2023-Spring of Electronic Technology 10430642 Lab. of Physics(2) 2 A 4.0 2023-Spring of Electronic Technology 10440012 General Chemistry B 2 A 4.0 2023-Spring of Electronic Technology 10680022 Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era 2 A- 4.0 2023-Spring of Elect	10720031	Physical Education(3)	1	A	4.0	2022-Autumn
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20430265 Fundamentals of Physics (3) 5 A- 4.0 2022-Auturentals 30220422 Fundamentals about Power System Operation and Management 2 A- 4.0 2022-Auturentals 00240094 Computer Organization and Architecture 4 A 4.0 2023-Sprintals 00782321 Foundation of Vocal Music 1 A- 4.0 2023-Sprintals 10430642 Lab. of Physics(2) 2 A 4.0 2023-Sprintals 10440012 General Chemistry B 2 A 4.0 2023-Sprintals 10680022 Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era 2 A- 4.0 2023-Sprintals	20220504	Foundations of Electronic Technology	4	A-	4.0	2022-Autumn
Fundamentals about Power System Operation and Management O0240094 Computer Organization and Architecture O0782321 Foundation of Vocal Music Lab. of Physics(2) General Chemistry B Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era Computer Organization and Architecture 4 A 4.0 2023-Sprin 1 A-4.0 2023-Sprin 2 A 4.0 2023-Sprin 2	20220511	Experiments of Electronic Technology	1	A	4.0	2022-Autumn
00240094 Computer Organization and Architecture 4 A 4.0 2023-Sprin 00782321 Foundation of Vocal Music 1 A- 4.0 2023-Sprin 10430642 Lab. of Physics(2) 2 A 4.0 2023-Sprin 10440012 General Chemistry B 2 A 4.0 2023-Sprin 10680022 Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era 2 A- 4.0 2023-Sprin	20430265	Fundamentals of Physics (3)	5	A-	4.0	2022-Autumn
00782321 Foundation of Vocal Music 1 A- 4.0 2023-Sprin 10430642 Lab. of Physics(2) 2 A 4.0 2023-Sprin 10440012 General Chemistry B 2 A 4.0 2023-Sprin 10680022 Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era 2 A- 4.0 2023-Sprin	30220422	Fundamentals about Power System Operation and Management	2	A-	4.0	2022-Autumn
10430642 Lab. of Physics(2) 2 A 4.0 2023-Sprin 10440012 General Chemistry B 2 A 4.0 2023-Sprin 10680022 Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era	00240094	Computer Organization and Architecture	4	A	4.0	2023-Spring
10440012 General Chemistry B 2 A 4.0 2023-Sprin 10680022 Introduction to Xi Jinping Thought on Socialism with Chinese 2 A- 4.0 2023-Sprin Characteristics for a New Era	00782321	Foundation of Vocal Music	1	A-	4.0	2023-Spring
10680022 Introduction to Xi Jinping Thought on Socialism with Chinese 2 A- 4.0 2023-Sprin Characteristics for a New Era	10430642	Lab. of Physics(2)	2	A	4.0	2023-Spring
10680022 Introduction to Xi Jinping Thought on Socialism with Chinese 2 A- 4.0 2023-Sprin Characteristics for a New Era	10440012	General Chemistry B	2	A	4.0	2023-Spring
		Introduction to Xi Jinping Thought on Socialism with Chinese	2	A-		2023-Spring
of Socialism with Chinese Characterist1	10680032	Introduction to MaoZedong Thought and the Theoretical System	2	A-	4.0	2023-Spring

Date of Graduation: ******* Degree Conferred: ****** **Total Credits:** 149.0 **GPA:** 3.88

Director of Registrar's Office: 刻 沐

Official Seal:

Date Printed: August 14, 2024

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TSINGHUA UNIVERSITY **ACADEMIC TRANSCRIPT**

Student Name Zuo Jingwei

Gender Male **Student No.** 2021012328 Student Type Undergraduate Date of Admission September, 2021

School/Department Weiyang College Major Mathematics and Physics + Electrical Engineering and Automation

Course Number	r Course Title	Credit	Grade	Point	Year-Semester
10720041	Physical Education(4)	1	A	4.0	2023-Spring
20240023	Discrete Mathematics(2)	3	P	N/A	2023-Spring
20430234	Fundamentals of Physics (2)	4	A	4.0	2023-Spring
30250203	Data Structures	3	A	4.0	2023-Spring
30430153	Mathematical Physics Equations	3	A	4.0	2023-Spring
40221052	Principle and Technology of Energy Conversion	2	A+	4.0	2023-Spring
12090062	Military Skills	2	B+	3.6	2023-Summer
20220521	Project Design of Electronics Technology	1	P	N/A	2023-Summer
21510082	Metal Working Technology Practice C	2	A-	4.0	2023-Summer
40221131	Practice of Software tools	1	P	N/A	2023-Summer
30220583	Computer and Network Technology	3	EX	N/A	2023-Autumn
40220723	Power System Analysis	3	EX	N/A	2023-Autumn
40420054	Numerical Analysis	4	EX	N/A	2023-Autumn
00692091	Interpersonal communication	1	A	4.0	2024-Spring
10450012	Introduction of Modern Biology	2	B+	3.6	2024-Spring
10510344	Principles of Economics	4	A-	4.0	2024-Spring
10720120	Physical Education(2)	0	A	4.0	2024-Spring
30220562	Power System Analysis & Control	2	A-	4.0	2024-Spring
30220593	High Voltage Engineering English	3	В	3.3	2024-Spring
34730124	Signal, System and Control	4	B+	3.6	2024-Spring
40221033	Forecasting Technology in Power Systems	3	B+	3.6	2024-Spring
44730134	Power Electronics and Power Semiconductors *********	4	B+	3.6	2024-Spring

Date of Graduation: ******* Degree Conferred: ****** **Total Credits:** 149.0 **GPA:** 3.88

Director of Registrar's Office: 刻 ネ

Official Seal:

Date Printed: August 14, 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+		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

^{*} 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.