UNIVERSITY OF SOUTHERN CALIFORNIA
OFFICIAL ACADEMIC TRANSCRIPT

OFFICE OF THE REGISTRAR
LOS ANGELES, CA 90089-0912
(213) 740-7445

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STUDENT NAME	STUDENT NUMBER	DATE	PAGE
Zhao, Brian Nlong	6895-7562-46	09-19-2024	1 of 5

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ISSUE TO:

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Frank Chang
Registrar

Current Program of Study

USC Degrees Awarded

12/14/2022 Bachelor of Arts	Applied and Computational Mathematics
	Summa Cum Laude
	Renaissance Honors
12/14/2022 Bachelor of Science	Computer Engineering & Computer Science
	Summa Cum Laude
05/10/2024 Master of Science	Computer Science

USC Minors Awarded

12/14/2022 Music Recording
Astronomy

Transfer Credit By Exam

Date:	Units:	Exam:
06/17	4.00	AP: Chemistry
06/18	4.00	AP: Computer Science A
06/17	4.00	AP: Mathematics - Calculus BC
06/18	4.00	AP: Physics C - Mechanics
06/18	4.00	AP: Physics C - Electricity/Magnetism
06/17	4.00	AP: Physics 1
06/18	4.00	AP: Physics 2
06/18	4.00	AP: Statistics

Transfer Detail Information

Undergraduate Units Attempted: 32.00 Earned: 32.00 Available: 32.00 Grade Points: 0.00 GPA: 0.00
Advanced Placement Credit Begin: 06/01/2017 End: 08/28/2018 Units Attempted: 32.00

USC Cumulative Totals

Undergraduate Units Attempted: 173.0 Earned: 173.0 Available: 173.0 GPA Units: 160.0 Grade Points: 627.00 GPA: 3.91
Graduate Units Attempted: 20.0 Earned: 20.0 Available: 20.0 GPA Units: 20.0 Grade Points: 78.80 GPA: 3.94

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Zhao, Brian Nlong	6895-7562-46	09-19-2024	2 of 5

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Fall Semester 2018 (08-20-2018 to 12-12-2018)

CTCS-190g	A-	4.0	Introduction to Cinema
CSCI-109	A-	2.0	Introduction to Computer Science
CSCI-103L	A	4.0	Introduction to Programming
MATH-226g	A	4.0	Calculus III
PHYS-190	CR	1.0	Physics Discovery Series
GESM-160g	A	4.0	Seminar in Quantitative Reasoning (Mathematical Modeling and Computer Simulation)

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
19.0	19.0	18.0	70.20	3.90

Spring Semester 2019 (01-07-2019 to 05-10-2019)

CSCI-170	A	4.0	Discrete Methods in Computer Science
MATH-225	A	4.0	Linear Algebra and Linear Differential Equations
MTEC-277x	A	4.0	Introduction to Music Technology
PHYS-161Lg	A	4.0	Advanced Principles of Physics I
CSCI-104L	A-	4.0	Data Structures and Object Oriented Design

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
20.0	20.0	20.0	78.80	3.94

Fall Semester 2019 (08-26-2019 to 12-18-2019)

MTEC-446A	A	2.0	Computer Assisted Recording and Editing
EE-109L	A	4.0	Introduction to Embedded Systems
CSCI-270	A	4.0	Introduction to Algorithms and Theory of Computing
CSCI-201	A	4.0	Principles of Software Development
PHYS-162L	A	4.0	Advanced Principles of Physics II

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
18.0	18.0	18.0	72.00	4.00

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STUDENT NAME	STUDENT NUMBER	DATE	PAGE
Zhao, Brian Nlong	6895-7562-46	09-19-2024	3 of 5

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Spring Semester 2020 (01-13-2020 to 05-15-2020)

Grades of Pass/No Pass permitted in Spring 2020 in response to COVID-19 global pandemic.

WRIT-150	P	4.0	Writing and Critical Reasoning--Thematic Approaches (Technology & Social Change)
PHYS-163L	A	4.0	Advanced Principles of Physics III
MTEC-378	A	2.0	Introduction to Mixing and Mastering
EE-250L	A	4.0	Distributed Systems for the Internet of Things
CSCI-353	A-	4.0	Introduction to Internetworking

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
18.0	18.0	14.0	54.80	3.91

Fall Semester 2020 (08-17-2020 to 12-16-2020)

Grades of Pass/No Pass permitted in Fall 2020 in response to COVID-19 global pandemic.

ENST-100g	A	4.0	Introduction to Environmental Studies
EE-354L	A	4.0	Introduction to Digital Circuits
MTEC-275	A	4.0	Fundamentals of Audio Engineering
MATH-458	A	4.0	Numerical Methods
MATH-407	A-	4.0	Probability Theory

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
20.0	20.0	20.0	78.80	3.94

Spring Semester 2021 (01-11-2021 to 05-14-2021)

Grades of Pass/No Pass permitted in Spring 2021 in response to COVID-19 global pandemic.

WRIT-340	P	4.0	Advanced Writing (Advanced Writing Communication for Engineers)
MTEC-478	A	2.0	Advanced Multichannel Remix
MATH-447	A-	4.0	Mathematics of Machine Learning
EE-457	A	4.0	Computer Systems Organization
CSCI-467	A	4.0	Introduction to Machine Learning

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
18.0	18.0	14.0	54.80	3.91

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Zhao, Brian Nlong	6895-7562-46	09-19-2024	4 of 5

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Summer Semester 2021 (05-19-2021 to 08-10-2021)

Grades of Pass/No Pass permitted in Summer 2021 in response to COVID-19 global pandemic.

PSYC-100Lg	P	4.0	Introduction to Psychology
CSCI-350	A-	4.0	Introduction to Operating Systems

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
8.0	8.0	4.0	14.80	3.70

Fall Semester 2021 (08-23-2021 to 12-15-2021)

Grades of Pass/No Pass permitted in Fall 2021 in response to COVID-19 global pandemic.

EE-454L	A	4.0	Introduction to System-on-Chip
MTEC-479	A	2.0	Audio Mastering
MATH-467	A	4.0	Theory and Computational Methods for Optimization
COLT-264gp	A	4.0	Asian Aesthetic and Literary Traditions
ASTR-400	A	4.0	The Solar System

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
18.0	18.0	18.0	72.00	4.00

Spring Semester 2022 (01-10-2022 to 05-13-2022)

Grades of Pass/No Pass permitted in Spring 2022 in response to COVID-19 global pandemic.

EE-451	A	4.0	Parallel and Distributed Computation
MTEC-446B	A	2.0	Computer Assisted Recording and Editing
MATH-432	A	4.0	Applied Combinatorics
EALC-125g	A	4.0	Introduction to Contemporary East Asian Cinema and Culture
ASTR-424	B+	4.0	Cosmology

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
18.0	18.0	18.0	69.20	3.84

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STUDENT NAME	STUDENT NUMBER	DATE	PAGE
Zhao, Brian Nlong	6895-7562-46	09-19-2024	5 of 5

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Fall Semester 2022 (08-22-2022 to 12-14-2022)

AMST-274mgw	A-	4.0	Exploring Ethnicity Through Film
ASTR-450	A-	4.0	Stellar Astrophysics
MATH-408	A	4.0	Mathematical Statistics
CSCI-401	A	4.0	Capstone: Design and Construction of Large Software Systems

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
16.0	16.0	16.0	61.60	3.85

Spring Semester 2023 (01-09-2023 to 05-12-2023)

CSCI-567	A-	4.0	Machine Learning
CSCI-544	A	4.0	Applied Natural Language Processing

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
8.0	8.0	8.0	30.80	3.85

Fall Semester 2023 (08-21-2023 to 12-13-2023)

CSCI-677	A	4.0	Advanced Computer Vision

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
4.0	4.0	4.0	16.00	4.00

Spring Semester 2024 (01-08-2024 to 05-10-2024)

CSCI-572	A	4.0	Information Retrieval and Web Search Engines
CSCI-570	A	4.0	Analysis of Algorithms

Term Units Attempted	Term Units Earned	Term GPA Units	Term Grade Points	Term GPA
8.0	8.0	8.0	32.00	4.00

End of Transcript

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ACADEMIC TRANSCRIPT INFORMATION

NOTE: *The information that follows represents current University policies. Questions regarding historical University policies and/or transcript notations should be addressed to the Office of the Registrar. This document contains a number of security features. Further information or authentication can be obtained by calling the Office of the Registrar (213) 740-9230.*

COURSE CREDIT/UNIT VALUE
A semester unit is a credit of one hour per week for one semester (15 weeks in length).

COURSE NUMBERING AND CLASSIFICATION
The first digit of the course indicates the year level of the course. 000-preparatory courses; 100-first undergraduate year; 200-second undergraduate year; 300-third and fourth undergraduate years without graduate credit; 400-third and fourth undergraduate years with graduate credit for graduate students; 500-first graduate year; 600-second graduate year; and 700-third graduate year.

GRADING SYSTEM
The following grades are used: A, excellent; B, good; C, fair in undergraduate courses and minimum passing in courses for graduate credit. D, minimum passing in undergraduate courses; and F, failed. Additional grades include CR, credit; NC, no credit; P, pass; and NP, no pass. The following marks are also used: W, withdrawn; IP, in progress; UW, unofficial withdrawal; MG, missing grade; IN, incomplete; and IX, lapsed incomplete.

GRADE POINT AVERAGE (GPA) CATEGORIES/CLASS LEVEL
A system of grade points is used to determine a student's grade point average. Grade points are assigned to grades as follows for each unit in the credit value of a course. A, 4.0 points; A-, 3.7 points; B+, 3.3 points; B, 3.0 points; B-, 2.7 points; C+, 2.3 points; C, 2.0 points; C-, 1.7 points; D+, 1.3 points; D, 1.0 points; D-. 0.7 points; F, 0 points; UW, 0 points; and IX, 0 points. Marks of CR, NC, P, NP, W, IP, MG and IN do not affect a student's grade point average. There are four categories of class level and GPA: Undergraduate, Graduate, Law, and Other. UNDERGRADUATE is comprised of Freshman (less than 32 units earned), Sophomore (32 to 63.9 units earned), Junior (64 to 95.9 units earned) and Senior (at least 96 units earned). GRADUATE is comprised of any coursework attempted while pursuing a master's and/or doctoral degree. LAW is comprised of any coursework attempted while pursuing a Juris Doctor or Master of Laws degree. Other is comprised of any coursework attempted while not admitted to a degree program or coursework not available for degree credit.

CLASS RANK
The University of Southern California does not calculate or support a class rank for its undergraduate students. While most graduate programs do not rank students, requests for graduate student class rankings should be directed to the dean of the particular school in which the graduate degree was earned.

STUDENT GOOD STANDING
A student is considered to be in good standing if they are eligible to register for classes. Disciplinary good standing is determined by the Office of Community Expectations.

TRANSFER CREDIT
Coursework accepted from other institutions is summarized into undergraduate and graduate areas. The summary information includes the number of units and GPA. The transfer institution(s) and dates of attendance do not appear on the USC transcript.

GOULD SCHOOL OF LAW GRADING SYSTEMS
Beginning in Fall 2022, courses are graded numerically from 4.0 to 1.9, with letter-grade equivalents ranging from A to F. The grade equivalents are 4.0 to 3.8 (A); 3.7 to 3.5 (A-); 3.4 to 3.3 (B+); 3.2 to 3.0 (B); 2.9 to 2.7 (B-); 2.6 to 2.5 (C+); 2.4 (C); 2.3 to 2.1 (C-); 2.0 (D); and 1.9 (F).

From Fall 2012 through Spring 2022, courses were graded numerically from 4.4 to 1.9, with letter grade equivalents ranging from A+ to F. The grade equivalents are 4.4 to 4.1 (A+); 4.0 to 3.8 (A); 3.7 to 3.5 (A-); 3.4 to 3.3 (B+); 3.2 to 3.0 (B); 2.9 to 2.7 (B-); 2.6 to 2.5 (C+); 2.4 (C); 2.3 to 2.1 (C-); 2.0 (D); and 1.9 (F).

From Fall 2001 through Spring 2012, courses were graded numerically from 4.4 to 1.9, with letter grade equivalents ranging from A+ to F. The grade equivalents are 4.4 to 4.1 (A+); 4.0 to 3.8 (A); 3.7 to 3.5 (A-); 3.4 to 3.3 (B+); 3.2 to 3.0 (B); 2.9 to 2.7 (B-); 2.6 to 2.5 (C+); 2.4 (C); 2.3 to 2.0 (D); and 1.9 (F).

Prior to Fall 2001, the grading system consisted in numbers in a range from 90 to 65. A grade of 90 was equivalent to highest honors and was very rare; 89 to 85 high honors; 84 to 80, honors; 79 to 70, satisfactory; 69 to 66, unsatisfactory; and 65, failing.

OSTROW SCHOOL OF DENTISTRY GRADING SYSTEM
Students admitted to the Doctor of Dental Surgery program in Fall 1990 or later and students admitted to the International Student Program in Summer 1991 or later, are bound by the University's grading system (excluding plus/minus grades), which is detailed *above* under the heading "GRADING SYSTEM." Academic records for dentistry students who attended prior to the dates listed above are housed independent of the University's central record system. Contact the Ostrow School of Dentistry directly for this earlier academic record information.

KECK SCHOOL OF MEDICINE TRANSCRIPTS
Transcripts for medical students are housed independent of the University's central records system. Contact the School of Medicine directly for this academic record information.

LANGUAGE OF INSTRUCTION
English is the language of instruction at USC. All courses are taught in English with the exception of a few advanced language courses.

ACCREDITATION
The University of Southern California is fully accredited by the Western Association of Schools and Colleges. For additional professional accreditation information, please refer to the latest issue of Accredited Institutions of Postsecondary Education published by the American Council on Postsecondary Accreditation (COPA).

University of Southern California
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