

TRANSCRIPT OF ACADEMIC RECORD

Surname:
Zhang

Given Names:
Haosen

Student Number:
40791428

Date of Birth:
November 26

Date Printed:
January 05, 2024

Issued To:
Zhang, Haosen
zhanghaosen328@gmail.com



REGISTRAR

Note: Transcript valid only if bearing the registrar's signature. This transcript is printed on secure paper on a blue background.

UBC Credentials										
Bachelor of Applied Science In Electrical Engineering CLASS 2 Granted: May 17, 2023										
Transfer Credits										
None to date										
Winter Session 2019 - 2020										
As of 16 March 2020, the COVID-19 pandemic disrupted regular academic activities. Modes of instruction and assessment were shifted to on-line activities mid-term, including changes to exam practices and weighting in some cases. Deadlines to withdraw or change to Credit/D/Fail or Pass/Fail grading were extended by some programs.										
Bachelor of Applied Science (UBC Vancouver) - Year 1										
Term	Course	Credit Value	Course Title	% Grade	Letter Grade	Credit Rec'd	Stdg	Withdraw Date	Complete Date	Class Size Avg
1	APSC 100	(3.0)	Introduction to Engineering I	45	F	0.0				337 77
1	CHEM 154	(3.0)	Chemistry for Engineering	85	A	3.0				312 72
1	FREN 101	(3.0)	Beginners' French I	75	B	3.0				34 78
1	MATH 100	(3.0)	Differential Calculus with Applications to Physical Sciences and Engineering	88	A	3.0				399 67
1	PHYS 157	(3.0)	Introductory Physics for Engineers I	82	A-	3.0				356 73
1	WRDS 150	(3.0)	Writing and Research in the Disciplines	65	C+	3.0				29 71
2	APSC 101	(3.0)	Introduction to Engineering II			3.0	CR			212 78
2	APSC 160	(3.0)	Introduction to Computation in Engineering Design			3.0	CR			205 81
2	MATH 101	(3.0)	Integral Calculus with Applications to Physical Sciences and Engineering	84	A-	3.0				152 79
2	MATH 152	(3.0)	Linear Systems	88	A	3.0				196 77
2	PHYS 158	(3.0)	Introductory Physics for Engineers II	82	A-	3.0				297 68
2	PHYS 159	(1.0)	Introductory Physics Laboratory for Engineers	82	A-	1.0				52 86
2	PHYS 170	(3.0)	Mechanics I	80	A-	3.0				279 85
UBC Academic Awards										
Outstanding International Student Award (Vancouver)										
Summer Session 2020										
Bachelor of Applied Science (UBC Vancouver) - Year 1										
Term	Course	Credit Value	Course Title	% Grade	Letter Grade	Credit Rec'd	Stdg	Withdraw Date	Complete Date	Class Size Avg
1	LING 101	(3.0)	Languages of the World	81	A-	3.0				141 74
1	MATH 253	(3.0)	Multivariable Calculus	80	A-	3.0				119 72
Winter Session 2020 - 2021										
Bachelor of Applied Science (UBC Vancouver) - Year 2										
Term	Course	Credit Value	Course Title	% Grade	Letter Grade	Credit Rec'd	Stdg	Withdraw Date	Complete Date	Class Size Avg
1	CPEN 211	(5.0)	Introduction to Microcomputers	60	C	5.0				262 73
1	CPSC 259	(4.0)	Data Structures and Algorithms for Electrical Engineers	77	B+	4.0				211 77
1	ELEC 201	(4.0)	Circuit Analysis I	85	A	4.0				100 64
1	MATH 256	(3.0)	Differential Equations	72	B	3.0				176 69
2	ELEC 202	(4.0)	Circuit Analysis II	50	D	4.0				71 71
2	ELEC 211	(2.0)	Engineering Electromagnetics	76	B+	2.0				82 67

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Winter Session 2020 - 2021 continued...										
Term	Course	Credit Value	Course Title	% Grade	Letter Grade	Credit Rec'd	Stdg	Withdraw Date	Complete Date	Class Size Avg
2	ELEC 221	(4.0)	Signals and Systems	63	C	4.0				164 67
2	ELEC 281	(3.0)	Technical Communication	62	C	3.0				31 72
2	ELEC 291	(6.0)	Electrical Engineering Design Studio I	69	B-	6.0				100 80
2	MATH 264	(1.0)	Vector Calculus for Electrical Engineering	76	B+	1.0				82 67
Winter Session 2021 - 2022										
Bachelor of Applied Science (UBC Vancouver) - Year 3										
Term	Course	Credit Value	Course Title	% Grade	Letter Grade	Credit Rec'd	Stdg	Withdraw Date	Complete Date	Class Size Avg
1	CPEN 311	(4.0)	Digital Systems Design	79	B+	4.0				128 86
1	ELEC 301	(4.0)	Electronic Circuits	78	B+	4.0				75 70
1	ELEC 311	(4.0)	Electromagnetic Fields and Waves	81	A-	4.0				83 78
1	ELEC 321	(4.0)	Stochastic Signals and Systems	85	A	4.0				76 68
1	ELEC 341	(4.0)	Systems and Control				W	2021/10/03		
2	ELEC 315	(4.0)	Electronic Materials and Devices	89	A	4.0				28 79
2	ELEC 342	(4.0)	Electro-Mechanical Energy Conversion and Transmission	66	C+	4.0				52 70
2	ELEC 391	(6.0)	Electrical Engineering Design Studio II	94	A+	6.0				102 75
2	MATH 340	(3.0)	Introduction to Linear Programming	58	C-	3.0				83 63
2	MTRL 478	(3.0)	Electronic Materials	71	B-	3.0				24 72
A	CIVL 250	(3.0)	Engineering and Sustainable Development	90	A+	3.0			2021/12/10	215 87
Dean's Honour List										
Summer Session 2022										
Bachelor of Applied Science (UBC Vancouver) - Year 3										
Term	Course	Credit Value	Course Title	% Grade	Letter Grade	Credit Rec'd	Stdg	Withdraw Date	Complete Date	Class Size Avg
1	ELEC 341	(4.0)	Systems and Control	89	A	4.0				74 80
1	ELEC 481	(3.0)	Economic Analysis of Engineering Projects	84	A-	3.0				111 79
Winter Session 2022 - 2023										
Bachelor of Applied Science (UBC Vancouver) - Year 4										
Term	Course	Credit Value	Course Title	% Grade	Letter Grade	Credit Rec'd	Stdg	Withdraw Date	Complete Date	Class Size Avg
1	APSC 450	(2.0)	Professional Engineering Practice	87	A	2.0				269 80
1	CPEN 411	(4.0)	Computer Architecture	72	B	4.0				74 78
1	ELEC 402	(4.0)	Introduction to VLSI Systems	60	C	4.0				36 77
1-2	ELEC 491F	(10.0)	CAPSTONE DSGN A	67	C+	10.0				107 83
2	CPEN 400Q	(4.0)	QUANTUM COMPUTNG	67	C+	4.0				40 86
2	CPEN 412	(4.0)	Microcomputer Systems Design	77	B+	4.0				63 89
2	ELEC 413	(3.0)	Semiconductor Lasers	78	B+	3.0				34 83

***** End of Record *****



The University of British Columbia was established by an Act of the Provincial Legislature in 1908 and opened in 1915. The University is a member of the Universities Canada. UBC Okanagan was established as a campus of The University of British Columbia in April 2005. UBC Okanagan assumed responsibility for several Okanagan University College degree programs and all continuing students in those programs on July 1, 2005. Okanagan University College ceased its educational operations as of August 31, 2005.

EXPLANATION OF STUDENT ACADEMIC RECORD

Academic terms

The University operates on a year system. The academic year is divided into two sessions. Winter Session is divided into two terms, Term 1 from September to December and Term 2 from January to April. Summer Session starts in May and ends in August and is comprised of Term 1 (May and June) and Term 2 (July and August). Courses may span a single term (Term 1 or 2) or a full session (Term 1 and 2) for either session.

Distance Education and Technology (DET) courses begin on one of two starting dates during Winter Session, designated in the Term column as A,B,C or D. During the Summer Session, DET courses have only one starting date and are designated with an A or B in the Term column.

Academic Awards

All academic awards (Fellowships, Scholarships, Prizes and Medals) administered by the University and issued subsequent to April 1975, are noted on the transcript of academic record.

Course Numbering

Courses numbered 100 to 199 are primarily for the first year students. Similarly, courses numbered 200 to 299 are primarily for second year students, courses numbered 300 to 399 are for third year students, and courses numbered 400 to 499 are for fourth year students. Courses numbered 500 to 699 are considered graduate-level. Courses numbered 700 and above are residency courses.

Class Size and Class Average Grades

Effective February 1999, class size and class average grades are shown for most courses. In courses with more than one section, the class size and average are reported for the student's section.

Grading and Course Weight

In May of 1991, The University of British Columbia adopted a percentage grading and credit weighting system. Course weight is expressed in "credits". In general 1 credit represents 1 hour of instruction or 2 to 3 hours of laboratory work per week throughout one term of the Winter Session. A 1-unit course became a 2-credit course. Courses are normally graded on a percentage basis with a corresponding letter grade derived as shown.

Degree Standings and Averages

Standings are expressed as Class 1 (80% or over), Class 2 (65 to 79%), Class P (50 to 64%) or Honours; not used by all faculties. Effective Winter Session 1996/97, the calculation of the standing and average is based on the average percentage grade of all upper-level (300 or higher) courses used to satisfy the degree requirements (excluding courses graded as Pass/Fail); not used by all faculties. This is not applicable to programs in the Faculty of Graduate Studies and Postdoctoral Studies.

Undergraduate Grading Scale

Percent	Letter Grade	Percent	Letter Grade
90-100	A+	64-67*	C+
85-89	A	60-63*	C
80-84	A-	55-59*	C-
76-79	B+	50-54*	D
72-75	B	0-49	F* (Fail)
68-71	B-		

Graduate Grading Scale

Masters Grading Scale		Doctoral Grading Scale	
Percent	Letter Grade	Percent	Letter Grade
90-100	A+	90-100	A+
85-89	A	85-89	A
80-84	A-	80-84	A-
76-79	B+	76-79	B+
72-75	B	72-78	B
68-71	B-	68-71	B-
64-67	C+	0-67	F* (Fail)
60-63	C		
0-59	F* (Fail)		

*Some programs may require higher passing grades; failing grades are assigned a letter grade of "F"

The following standings also apply:

AEG	- aegrotat standing: indicates that the student is granted credit although unable to complete because of illness. A letter grade will also be recorded and that grade converted to a minimum percentage grade for that category for the calculation of averages.
AUD	- audit
CH	- challenge credit
CIP	- course in progress
CR/D/F	- (introduced in 2010/11) excluded from calculation in all averages; granted where a grade is assigned by an instructor but not included on the student's official transcript; grade is converted to CR, D or F standing. CR- credit, satisfactory completion of the requirements of the subject; D- marginal pass (50% - 54%), and not available for those programs or courses that define a passing grade as higher than 50%; F - fail
EX	- exempt
J	- see "A" standing as defined in grading scale prior to May 1991
P or F	- no grade assigned, excluded from calculation in all averages; P- pass, requirements of subject completed satisfactorily, credit granted where applicable; F - fail
H	- (introduced 1999/00 session) no grade assigned, excluded from calculation in all averages; H - honours, exceeds course requirements, credit granted where applicable
PLA	- credit assigned based on prior learning in subject area.
S	- see "S" standing as defined in grading scale prior to May 1991
SD	- standing deferred; excluded from calculation in all averages
T	- thesis in progress; graduating essay not submitted; course continuing
W	- official withdrawal

PRIOR TO MAY 1991

Course Weight and Hours

Course weight was expressed in "units". In general, 1 unit represented 1 lecture hour per week (or a laboratory period of approximately 2 to 3 hours each week) throughout both terms of the Winter Session. Some faculties did not assign an unit value to some courses. The maximum mark possible (max) indicated the weight of a course. A 3-unit course (3 hours of lectures per week throughout the Winter Session) was graded out of a total of 150 marks. This course approximated a 6 semester-hour or a 9 quarter-hour course.

Grading classifications

Class 1	- 80% or better (i.e., 120 or more on a maximum of 150)
Class 2	- 65% - 79% (i.e., 98 to 119 out of 150)
Class P	- 50% - 64% (i.e., 75 to 97 out of 150) except Dentistry, Graduate Studies, Librarianship, Medicine, Nursing and Rehabilitation Medicine where the range is 60% - 64%
Class F	- failure, no credit granted: below 50% except Dentistry, Graduate Studies, Librarianship, Medicine, Nursing and Rehabilitation Medicine: below 60%

The following standings also apply:

A	- adjudicated pass: indicates that credit is granted and the course need not be repeated although it may not normally qualify as a prerequisite for further work. The grade assigned by the instructor is used in calculation of averages
AEG	- aegrotat standing: granted to a student who has been successful in studies but unable to write the final exam because of illness or other extenuating circumstances
AUD	- audit
C	- requirements of subject completed satisfactorily; no grade assigned; unit value granted where applicable; excluded from calculation in all averages
D	- standing deferred; excluded from calculation in all averages
E	- exempt
N	- no credit granted; did not write examination or otherwise complete requirements of the course (discontinued beginning 1985-86 session)
S	- supplemental privilege granted; failure; no credit granted; supplementals are not permitted in all faculties
T	- thesis in progress; graduating essay not submitted; course continuing
W	- (introduced in 1988/89 session) official withdrawal
X	- time expired; student did not complete course

Year Standing

In most Faculties each "year" was graded as Class 1, Class 2, Class P, Fail or carried a descriptive clause indicating action taken by the Adjudication Committee.

Degree Standing

Expressed as Class 1, Class 2, Class P, or with Honours; not used by all faculties. In some faculties the calculation of standing was based on the studies of the final two years, in others on the final year only.

THIS DOCUMENT CONTAINS SECURITY FEATURES. HOLD AT AN ANGLE TO VERIFY A WATERMARK BASKET WEAVE DESIGN