



University of Waterloo
200 University Ave. West
Waterloo Ontario
Canada
N2L3G1

Undergraduate Official Transcript

Name: Liu, Wenxuan
Student ID: 20614252
Ontario Education Nbr: 487488058

A. Kelly
Registrar

Degrees Awarded

Degree: Bachelor of Computer Science
Confer Date: 10/23/2020
Degree Honours: With Distinction
Degree Honours: Dean's Honours List
Computer Science, Honours

Beginning of Undergraduate Record

Fall 2015

Program: Chemical Engineering, Honours, Co-operative Program

Course		Description	Attempted	Earned	Grade
CHE	100	Chemical Engineering Concepts 1	0.75	0.00	91
		<i>Not Accountable - Faculty Transfer</i>			
CHE	102	Chemistry for Engineers	0.50	0.50	71
MATH	115	Linear Algebra for Engineering	0.50	0.50	92
MATH	116	Calculus 1 for Engineering	0.50	0.50	97
PHYS	115	Mechanics	0.50	0.50	83

Academic Standing: Excellent standing Effective 12/31/2015

Winter 2016

Program: Chemical Engineering, Honours, Co-operative Program

Course		Description	Attempted	Earned	Grade
PD	20	Engineering Workplace Skills I: Developing Reasoned Conclusions	0.50	0.00	CR

Spring 2016

Program: Chemical Engineering, Honours, Co-operative Program

Course		Description	Attempted	Earned	Grade
CHE	101	Chemical Engineering Concepts 2	0.50	0.50	86
CHE	121	Engineering Computation	0.50	0.00	91
		<i>Not Accountable - Faculty Transfer</i>			
CHE	161	Engineering Biology	0.50	0.50	85
GENE	123	Electrical Engineering	0.50	0.50	94
MATH	118	Calculus 2 for Engineering	0.50	0.50	98
PSYCH	101	Introductory Psychology	0.50	0.50	76

Academic Standing: Excellent standing Effective 08/31/2016
Term Honours: Term Dean's Honours List

Fall 2016

Program: Chemical Engineering, Honours, Co-operative Program

Course		Description	Attempted	Earned	Grade
COOP	1	Co-operative Work Term	0.50	0.00	CR
PD	21	Engineering Workplace Skills II: Developing Effective Plans	0.50	0.00	CR



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Winter 2017

Program: Chemical Engineering, Honours, Co-operative Program

Course		Description	Attempted	Earned	Grade
CHE	200	Equilibrium Stage Operations	0.50	0.50	88
CHE	220	Process Data Analysis	0.50	0.00	98
		<i>Not Accountable - Faculty Transfer</i>			
CHE	230	Physical Chemistry 1	0.50	0.50	93
CHE	290	Chemical Engineering Lab 1	0.25	0.00	83
		<i>Not Accountable - Faculty Transfer</i>			
CHEM	262	Organic Chemistry for Engineering	0.50	0.50	90
CHEM	262L	Organic Chemistry Laboratory for Engineering Students	0.25	0.00	93
		<i>Not Accountable - Faculty Transfer</i>			
MATH	217	Calculus 3 for Chemical Engineering	0.50	0.50	97
Academic Standing: Excellent standing Effective 04/30/2017					
Term Honours: Term Dean's Honours List					

Spring 2017

Program: Chemical Engineering, Honours, Co-operative Program

Course		Description	Attempted	Earned	Grade
COOP	2	Co-operative Work Term	0.50	0.00	CR
PD	3	Communication	0.50	0.00	CR

Fall 2017

Program: Chemical Engineering, Honours, Co-operative Program

Course		Description	Attempted	Earned	Grade
CHE	211	Fluid Mechanics	0.50	0.00	WD
		<i>Not Accountable - Faculty Transfer</i>			
CHE	231	Physical Chemistry 2	0.50	0.00	WD
		<i>Not Accountable - Faculty Transfer</i>			
CHE	241	Materials Science and Engineering	0.50	0.00	WD
		<i>Not Accountable - Faculty Transfer</i>			
CHE	291	Chemical Engineering Lab 2	0.25	0.00	WD
		<i>Not Accountable - Faculty Transfer</i>			
MATH	218	Differential Equations for Engineers	0.50	0.00	WD
		<i>Not Accountable - Faculty Transfer</i>			
MSCI	261	Engineering Economics: Financial Management for Engineers	0.50	0.00	WD
		<i>Not Accountable - Faculty Transfer</i>			
WKRPT	200	Work-term Report	0.13	0.13	89

Winter 2018

Program: Chemical Engineering, Honours, Co-operative Program

Course		Description	Attempted	Earned	Grade
COOP	3	Co-operative Work Term	0.50	0.00	CR
PD	5	Project Management	0.50	0.00	CR
WKRPT	200M	Work-term Report	0.13	0.00	75



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Spring 2018

Program: Mathematics, Honours, Co-operative Program

Course		Description	Attempted	Earned	Grade
CS	115	Introduction to Computer Science 1	0.50	0.50	96
EMLS	129R	Written Academic English	0.50	0.50	92
MATH	135	Algebra for Honours Mathematics	0.50	0.50	98
MATH	235	Linear Algebra 2 for Honours Mathematics	0.50	0.50	96
STV	202	Design and Society	0.50	0.50	83

Academic Standing: Excellent standing Effective 09/19/2018

Term Honours: Term Dean's Honours List

Fall 2018

Program: Mathematics, Honours, Co-operative Program

Course		Description	Attempted	Earned	Grade
CS	136	Elementary Algorithm Design and Data Abstraction	0.50	0.50	88
ENGL	119	Communications in Mathematics & Computer Science	0.50	0.50	83
MATH	239	Introduction to Combinatorics	0.50	0.50	100
STAT	230	Probability	0.50	0.50	94
STV	306	Biotechnology and Society	0.50	0.50	85

Academic Standing: Excellent standing Effective 01/18/2019

Term Honours: Term Dean's Honours List

Winter 2019

Program: Computer Science, Honours, Co-operative Program

Course		Description	Attempted	Earned	Grade
CS	245	Logic and Computation	0.50	0.50	94
CS	246	Object-Oriented Software Development	0.50	0.50	92
STAT	231	Statistics	0.50	0.50	95
STV	210	The Computing Society	0.50	0.50	87

Academic Standing: Excellent standing Effective 05/22/2019

Spring 2019

Program: Computer Science, Honours, Co-operative Program

Course		Description	Attempted	Earned	Grade
COOP	4	Co-operative Work Term	0.50	0.00	CR
PD	10	Professional Responsibility in Computing	0.50	0.00	CR
WKRPT	300M	Work-term Report	0.13	0.00	DNW

Fall 2019

Program: Computer Science, Honours

Course		Description	Attempted	Earned	Grade
CS	240	Data Structures and Data Management	0.50	0.50	95
CS	241	Foundations of Sequential Programs	0.50	0.50	85
CS	251	Computer Organization and Design	0.50	0.50	96
CS	370	Numerical Computation	0.50	0.50	97
FR	101	Beginner French	0.50	0.50	95

Academic Standing: Excellent standing Effective 01/21/2020

Term Honours: Term Dean's Honours List



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Winter 2020

Program: Computer Science, Honours

COVID-19 impacted assessment methods and performance in many courses this term.

<u>Course</u>		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
CS	341	Algorithms	0.50	0.50	93
CS	349	User Interfaces	0.50	0.50	98
CS	350	Operating Systems	0.50	0.50	95
CS	492	The Social Implications of Computing	0.50	0.50	87

Academic Standing: Excellent standing Effective 05/27/2020

Term Honours: Term Dean's Honours List

Spring 2020

Program: Computer Science, Honours

<u>Course</u>		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
CS	446	Software Design and Architectures	0.50	0.50	92
CS	449	Human-Computer Interaction	0.50	0.50	97
CS	486	Introduction to Artificial Intelligence	0.50	0.50	95
ECON	101	Introduction to Microeconomics	0.50	0.50	87

Academic Standing: Excellent standing Effective 09/15/2020

Term Honours: Term Dean's Honours List

Milestones

<u>Date Completed</u>	<u>Description</u>	<u>Status</u>
10/06/2015	Workplace Hazardous Materials	Completed
12/30/2016	Work Term 1	Completed
08/30/2017	Work Term 2	Completed
12/31/2017	Work Report 1	Completed
04/30/2018	Work Report 2	Completed
04/30/2018	Work Term 3	Completed
08/30/2018	English Proficiency	Completed
08/31/2019	Work Term 4	Completed

Scholarships and Awards

2016 University of Waterloo President's Scholarship

End of Undergraduate Official Transcript