Undergraduate Unofficial Transcript

Name: Zhu, Richard Student ID: 21017757

Ontario Education Nbr: 150550408

Beginning of Undergraduate Record

Fall 2022

Program:	Mathern	natics, Honours, Co-operative Program
Level:	1A	Form Of Study: Enrolment

<u>Course</u>		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
CS	135	Designing Functional Programs	0.50	0.50	91
MATH	135	Algebra for Honours Mathematics	0.50	0.50	91
MATH	137	Calculus 1 for Honours Mathematics	0.50	0.50	86
MTHEL	99	First-Year Mathematics Readiness	0.00	0.00	CR
Course Topic	• •	First year readiness			
SPCOM	100	Interpersonal Communication	0.50	0.50	87
			<u>In GPA</u>	<u>Earned</u>	
Term GPA		88.75 Term Totals	2.00	2.00	
Cumulative G	PA	88.75 Cumulative Totals	2.00	2.00	
Major Averag	e:	89.33 Mathematics, Honours, Co-operative Program			
Faculty Average 89.33 Mathematics, Honours, Co-operative Program					

Academic Standing: Excellent Standing Effective 01/19/2023

Term Distinction Term Honours:

Winter 2023

Program: Mathematics, Honours, Co-operative Program Form Of Study: Enrolment Level:

Course		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
CS	136	Elementary Algorithm Design and Data Abstraction	0.50	0.50	87
CS	136L	Tools and Techniques for Software Development	0.25	0.25	CR
MATH	136	Linear Algebra 1 for Honours Mathematics	0.50	0.50	97
MATH	138	Calculus 2 for Honours Mathematics	0.50	0.50	81
PD	1	Career Fundamentals	0.50	0.00	CR
PHIL	101	Challenging Ideas: An Introduction to Philosophy	0.50	0.50	65
STAT	230	Probability	0.50	0.50	76
			<u>In GPA</u>	<u>Earned</u>	
Term GPA		81.20 Term Totals	3.25	2.75	
Cumulative C	SPA .	84.56 Cumulative Totals	4.50	4.75	
Major Average: 87.00 Mathematics, Honours, Co-operative Program					
Faculty Average: 87.00 Mathematics, Honours, Co-operative Program					

Faculty Average: Academic Standing: Excellent Standing Effective 05/19/2023

Term Honours: Term Distinction

Spring 2023

Mathematics, Honours, Co-operative Program 2A Form Of Study: Co-op Work Term Program: Level:

<u>Course</u>		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
COOP	1	Co-operative Work Term	0.50	0.00	CR
PD	11	Processes for Technical Report Writing	0.50	0.00	CR
			<u>In GPA</u>	<u>Earned</u>	
Term GPA		0.00 Term Totals	1.00	0.00	
Cumulative C	3PA	84.56 Cumulative Totals	4.50	4.75	
Major Averag	ge:	87.00 Mathematics, Honours, Co-operative Progran	า		
Faculty Avera	age:	87.00 Mathematics, Honours, Co-operative Progran	n		

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			Fall 2023			
Program: Level:	,	Honours, Co-operative form Of Study: Enrolm	3			
Course CO MATH MATH MUSIC STAT Term GPA Cumulativ Major Ave Faculty Av Academic	e GPA rage: /erage:	Introduction to 0 Music Ensemble Statistics 79.25 Te 82.92 Cu 84.18 Ma	Honours Mathematics Combinatorics e rm Totals Imulative Totals Athematics, Honours, Co-operative Progra		Earned 0.50 0.50 0.50 0.25 0.50 Earned 2.25 7.00	Grade 82 70 85 CR 80
			Winter 2024			
Program: Level:		Honours, Co-operative form Of Study: Enrolm				
Course CO CS FINE MATH PMATH	=	Logic and Com Introduction to I Linear Algebra Elementary Nur 68.40 Te	Digital Imaging 2 for Honours Mathematics mber Theory rm Totals	Attempted 0.50 0.50 0.50 0.50 0.50 In GPA 2.50	Earned 0.50 0.50 0.50 0.50 0.50 0.50 <u>Earned</u> 2.50	Grade 68 78 62 71 63
Cumulativ Major Ave Faculty Av Academic	rage: /erage:	80.40 Ma	Imulative Totals athematics, Honours, Co-operative Progra athematics, Honours, Co-operative Progra 15/16/2024 Spring 2024		9.50	
Program: Level:		Honours, Co-operative form Of Study: Co-op	e Program			
Course COOP Term GPA Cumulativ			ork Term rm Totals Imulative Totals	Attempted 0.50 In GPA 0.50 9.00	Earned 0.00 Earned 0.00 9.50	<u>Grade</u> NCR
			Fall 2024			
Program: Level:		& Optimization, Hono form Of Study: Enrolm	ours, Co-operative Program			
Course CO CO COMMST CS MUSIC Term GPA Cumulativ Major Ave	246 275 A e GPA	Music and Tech 69.75 Te 77.23 Cu	Theory G Software Development nnology	Attempted 0.50 0.50 0.50 0.50 0.50 0.50 0.50 1n GPA 2.50 11.00 operative Program	Earned 0.00 0.50 0.50 0.50 0.50 0.50 Earned 2.00 11.50	Grade WD 63 74 75 67
Faculty Av	/erage:		mbinatorics & Optimization, Honours, Co-			

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Winter 2025

Combinatorics & Optimization, Honours, Co-operative Program

Level: Form Of Study: Co-op Work Term

Course		Description	Attempted	Earned	Grade
COOP	3	Co-operative Work Term	0.50	0.00	CR
PD	3	Communication	0.50	0.00	CR
			<u>In GPA</u>	<u>Earned</u>	
Term GPA		0.00 Term Totals	1.00	0.00	
Cumulative GPA	A	77.23 Cumulative Totals	11.00	11.50	

Spring 2025

Combinatorics & Optimization, Honours, Co-operative Program
3A Form Of Study: Enrolment Program:

Level:

Course		<u>Description</u>	<u>Attempted</u>	Earned	<u>Grade</u>
CO	342	Introduction to Graph Theory			
CO	432	Information Theory and Applications			
ECON	102	Introduction to Macroeconomics			
FR	192B	French Language 1: Module 2			
PMATH	336	Introduction to Group Theory with Applications			

Milestones

Date Completed	<u>Description</u>	<u>Status</u>
12/31/2022	Undergraduate Communication Requirement - Part 1	Completed
08/31/2023	Work Term 1	Completed
12/31/2024	Undergraduate Communication Requirement	Completed
04/30/2025	Work Term 3	Completed

Scholarships and Awards

2023 University of Waterloo President's Scholarship

End of Undergraduate Unofficial Transcript