

## Undergraduate Unofficial Transcript

**Name:** XING, Yun  
**Student ID:** 20877134  
**Ontario Education Nbr:** 142531003

### Beginning of Undergraduate Record

#### Fall 2020

Program: Mathematics, 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	115	Introduction to Computer Science 1	0.50	0.50	95
EMLS	129R	Written Academic English	0.50	0.50	86
MATH	135	Algebra for Honours Mathematics	0.50	0.50	94
MATH	137	Calculus 1 for Honours Mathematics	0.50	0.50	94
MTHL	199	Special Topics	0.25	0.25	CR
Course Topic:		First year readiness			
			<u>In GPA</u>	<u>Earned</u>	
Term GPA	92.25	Term Totals	2.25	2.25	
Cumulative GPA	92.25	Cumulative Totals	2.00	2.25	
Major Average:	94.33	Mathematics, Honours, Co-operative Program			
Faculty Average:	94.33	Mathematics, Honours, Co-operative Program			
Academic Standing: Excellent Standing Effective 01/21/2021					
Term Honours: Term Distinction					

#### Winter 2021

Program: Mathematics, Honours, Co-operative Program  
Level: 1B Form Of Study: Enrolment

<u>Course</u>		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
CS	136	Elementary Algorithm Design and Data Abstraction	0.50	0.50	93
MATH	136	Linear Algebra 1 for Honours Mathematics	0.50	0.50	93
MATH	138	Calculus 2 for Honours Mathematics	0.50	0.50	87
PHYS	121	Mechanics	0.50	0.50	74
STAT	230	Probability	0.50	0.50	92
			<u>In GPA</u>	<u>Earned</u>	
Term GPA	87.80	Term Totals	2.50	2.50	
Cumulative GPA	89.78	Cumulative Totals	4.50	4.75	
Major Average:	92.57	Mathematics, Honours, Co-operative Program			
Faculty Average:	92.57	Mathematics, Honours, Co-operative Program			
Academic Standing: Excellent Standing Effective 05/19/2021					
Term Honours: Term Distinction					

#### Spring 2021

Program: Mathematics, Honours, Co-operative Program  
Level: 2A Form Of Study: Enrolment

<u>Course</u>		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
CS	234	Data Types and Structures	0.50	0.50	96
MATH	235	Linear Algebra 2 for Honours Mathematics	0.50	0.50	96
MATH	237	Calculus 3 for Honours Mathematics	0.50	0.50	96
PD	1	Career Fundamentals	0.50	0.00	CR
SPCOM	225	Interviewing	0.50	0.50	91
STAT	231	Statistics	0.50	0.50	86
			<u>In GPA</u>	<u>Earned</u>	
Term GPA	93.00	Term Totals	3.00	2.50	
Cumulative GPA	90.93	Cumulative Totals	7.00	7.25	
Major Average:	92.91	Mathematics, Honours, Co-operative Program			
Faculty Average:	92.91	Mathematics, Honours, Co-operative Program			
Academic Standing: Excellent Standing Effective 09/14/2021					
Term Honours: Term Distinction					

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### Fall 2021

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

<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
ECON	101	Introduction to Microeconomics	0.50	0.50	95
PD	11	Processes for Technical Report Writing	0.50	0.00	CR
			<u>In GPA</u>	<u>Earned</u>	
Term GPA		95.00 Term Totals	1.50	0.50	
Cumulative GPA		91.20 Cumulative Totals	7.50	7.75	
Major Average:		92.91 Mathematics, Honours, Co-operative Program			
Faculty Average:		92.91 Mathematics, Honours, Co-operative Program			
Academic Standing:	Excellent Standing Effective 01/20/2022				
Term Honours:	Term Distinction				

### Winter 2022

**Program:** Mathematics, Honours, Co-operative Program  
**Level:** 2B **Form Of Study:** Enrolment

<u>Course</u>		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
CO	250	Introduction to Optimization	0.50	0.50	97
CS	371	Introduction to Computational Mathematics	0.50	0.50	95
ECON	254	Economics of Sport	0.50	0.50	98
MATH	239	Introduction to Combinatorics	0.50	0.50	100
STAT	340	Stochastic Simulation Methods	0.50	0.50	92
			<u>In GPA</u>	<u>Earned</u>	
Term GPA		96.40 Term Totals	2.50	2.50	
Cumulative GPA		92.50 Cumulative Totals	10.00	10.25	
Major Average:		93.73 Mathematics, Honours, Co-operative Program			
Faculty Average:		93.73 Mathematics, Honours, Co-operative Program			
Academic Standing:	Excellent Standing Effective 05/19/2022				
Term Honours:	Term Distinction				

### Spring 2022

**Program:** Combinatorics & Optimization, Honours, Co-operative Program  
Economics Minor  
**Level:** 3A **Form Of Study:** Co-op Work Term

<u>Course</u>		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
COOP	2	Co-operative Work Term	0.50	0.00	CR
ECON	201	Microeconomic Theory for Business and Policy	0.50	0.50	90
PD	4	Teamwork	0.50	0.00	CR
			<u>In GPA</u>	<u>Earned</u>	
Term GPA		90.00 Term Totals	1.50	0.50	
Cumulative GPA		92.38 Cumulative Totals	10.50	10.75	
Major Average:		93.73 Combinatorics & Optimization, Honours, Co-operative Program			
Faculty Average:		93.73 Combinatorics & Optimization, Honours, Co-operative Program			
Academic Standing:	Excellent Standing Effective 09/13/2022				
Term Honours:	Term Distinction				

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### Fall 2022

**Program:** Combinatorics & Optimization, Honours, Co-operative Program  
Economics Minor

**Level:** 3A **Form Of Study:** Enrolment

<u>Course</u>		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
CO	342	Introduction to Graph Theory	0.50	0.50	95
CO	351	Network Flow Theory	0.50	0.50	93
ECON	212	Introduction to Game Theory	0.50	0.50	94
PMATH	347	Groups and Rings	0.50	0.50	98
STAT	341	Computational Statistics and Data Analysis	0.50	0.50	90

			<u>In GPA</u>	<u>Earned</u>	
Term GPA	94.00	Term Totals	2.50	2.50	
Cumulative GPA	92.69	Cumulative Totals	13.00	13.25	
Major Average:	93.79	Combinatorics & Optimization, Honours, Co-operative Program			
Faculty Average:	93.79	Combinatorics & Optimization, Honours, Co-operative Program			
Academic Standing:	Excellent Standing Effective 01/19/2023				
Term Honours:	Term Distinction				

### Winter 2023

**Program:** Combinatorics & Optimization, Honours, Co-operative Program  
Economics Minor

**Level:** 3B **Form Of Study:** Co-op Work Term

<u>Course</u>		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
CO	452	Integer Programming	0.50	0.50	87
COOP	3	Co-operative Work Term	0.50	0.00	CR
PD	12	Critical Reflection for Growth in the Workplace	0.50	0.00	CR

			<u>In GPA</u>	<u>Earned</u>	
Term GPA	87.00	Term Totals	1.50	0.50	
Cumulative GPA	92.48	Cumulative Totals	13.50	13.75	
Major Average:	93.45	Combinatorics & Optimization, Honours, Co-operative Program			
Faculty Average:	93.45	Combinatorics & Optimization, Honours, Co-operative Program			
Academic Standing:	Excellent Standing Effective 05/19/2023				
Term Honours:	Term Distinction				

### Spring 2023

**Program:** Combinatorics & Optimization, Honours, Co-operative Program  
Economics Minor

**Level:** 3B **Form Of Study:** Co-op Work Term

<u>Course</u>		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
CO	446	Matroid Theory	0.50	0.50	100
COOP	4	Co-operative Work Term	0.50	0.00	CR
PD	13	Research in the Workplace	0.50	0.00	CR

			<u>In GPA</u>	<u>Earned</u>	
Term GPA	100.00	Term Totals	1.50	0.50	
Cumulative GPA	92.75	Cumulative Totals	14.00	14.25	
Major Average:	93.76	Combinatorics & Optimization, Honours, Co-operative Program			
Faculty Average:	93.76	Combinatorics & Optimization, Honours, Co-operative Program			
Academic Standing:	Excellent Standing Effective 09/14/2023				
Term Honours:	Term Distinction				

### Fall 2023

**Program:** Combinatorics & Optimization, Honours, Co-operative Program  
Economics Minor

**Level:** 3B **Form Of Study:** Enrolment

<u>Course</u>		<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>
CO	330	Combinatorial Enumeration			
CO	431	Symmetric Functions			
CO	442	Graph Theory			
CO	450	Combinatorial Optimization			
CO	456	Introduction to Game Theory			
ECON	102	Introduction to Macroeconomics			

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Milestones		
<u>Date Completed</u>	<u>Description</u>	<u>Status</u>
12/31/2020	Undergraduate Communication Requirement - Part 1	Completed
08/31/2021	Undergraduate Communication Requirement	Completed
09/01/2021	Workplace Hazardous Materials	Completed
12/31/2021	Work Report 1	Completed
12/31/2021	Work Term 1	Completed
08/31/2022	Work Term 2	Completed
04/30/2023	Work Term 3	Completed
08/31/2023	Work Term 4	Completed

### Scholarships and Awards

2021	University of Waterloo President's Scholarship of Distinction
2024	President's Research Award
2024	Mathematics Undergraduate Research Award

**End of Undergraduate Unofficial Transcript**