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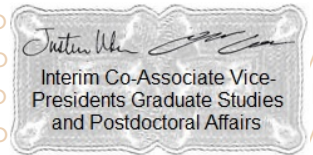
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University of Waterloo  
200 University Ave. West  
Waterloo Ontario  
Canada  
N2L3G1



## Graduate Official Transcript

**Name:** Khanna, Dheeraj

**Student ID:** 21017455

**Ontario Education Nbr:** 921865242

### Degrees Awarded

**Degree:** Master of Applied Science

**Confer Date:** 06/02/2025

**Program:** Systems Design Engineering, MASc

### Beginning of Graduate Record

#### Fall 2022

**Program:** Electrical & Computer Engineering, MEng

**Attendance:** Full-Time **Term:** 1.00 **Status:** Enrolment

Course	Description	Attempted	Earned	Grade
ACINTY 620	Academic Integrity Module	0.00	0.00	CR
ECE 606	Algorithm Design and Analysis	0.50	0.50	82
ECE 650	Methods and Tools for Software Engineering	0.50	0.50	100
GS -	Continuing Graduate Studies	0.00	0.00	

#### Winter 2023

**Program:** Systems Design Engineering, MASc

**Attendance:** Full-Time **Term:** 2.00 **Status:** Enrolment

Course	Description	Attempted	Earned	Grade
ECE 613	Image Processing and Visual Communication	0.50	0.50	85
GS -	Continuing Graduate Studies	0.00	0.00	
SYDE 675	Pattern Recognition	0.50	0.50	95

#### Spring 2023

**Program:** Systems Design Engineering, MASc

**Attendance:** Full-Time **Term:** 3.00 **Status:** Enrolment

Course	Description	Attempted	Earned	Grade
GS -	Continuing Graduate Studies	0.00	0.00	

#### Fall 2023

**Program:** Systems Design Engineering, MASc

**Attendance:** Full-Time **Term:** 4.00 **Status:** Enrolment

Course	Description	Attempted	Earned	Grade
GS -	Continuing Graduate Studies	0.00	0.00	

#### Winter 2024

**Program:** Systems Design Engineering, MASc

**Attendance:** Full-Time **Term:** 5.00 **Status:** Enrolment

Course	Description	Attempted	Earned	Grade
GS -	Continuing Graduate Studies	0.00	0.00	

#### Spring 2024

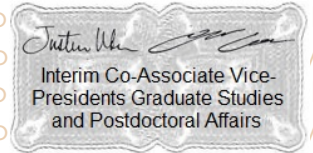
**Program:** Systems Design Engineering, MASc

**Attendance:** Full-Time **Term:** 6.00 **Status:** Enrolment

Course	Description	Attempted	Earned	Grade
GS -	Continuing Graduate Studies	0.00	0.00	



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200 University Ave. West  
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Canada  
N2L3G1



### Graduate Official Transcript

**Name:** Khanna, Dheeraj  
**Student ID:** 21017455  
**Ontario Education Nbr:** 921865242

#### Fall 2024

**Program:** Systems Design Engineering, MASC  
**Attendance:** Full-Time **Term:** 7.00 **Status:** Enrolment

Course	Description	Attempted	Earned	Grade
GS	Continuing Graduate Studies	0.00	0.00	

#### Winter 2025

**Program:** Systems Design Engineering, MASC  
**Attendance:** Part-Time **Term:** 7.50 **Status:** Enrolment

Course	Description	Attempted	Earned	Grade
GS	Continuing Graduate Studies			

**Withdrawal Date:** 03/19/2025  
**Degree Completed** **Date:** 03/19/2025

#### Milestones

**Program:** Engineering Master's  
**Master's Seminar**  
**Status:** Completed  
**Date Completed:** 02/07/2025  
**Grade:** CR  
**Seminar Attendance**  
**Status:** Completed  
**Date Completed:** 02/14/2025  
**Grade:** CR  
**Master's Thesis**  
**Status:** Completed  
**Date Completed:** 03/18/2025  
**Milestone Title:** Multi-Object Tracking using Mamba and an Investigation into Data Association Strategies  
**Grade:** ACC

End of Graduate Official Transcript

## Grading

### Effective Fall 2001

#### Graduate Studies

Averages are reported in all Faculties as percentages. Average calculation values are used for overall averages for students with letter grades on their records.

Numeric grades on a scale from 0 – 100 as well as CR and NCR will be used by all Faculties. Grades for all courses taken prior to Fall 2001 appear on transcripts either as one of 10 letter grades from A+ to F, or as numeric grades on a percentage scale.

Any course with a numeric grade below 60 will not be counted for credit and is considered a failure. In some programs a grade higher than 60 is required for the course to count towards degree completion.

#### Undergraduate Studies

Averages are reported in all Faculties as percentages. Average calculation values are used for overall averages for students with letter grades on their records.

Numeric grades on a scale from 0 – 100 as well as CR and NCR will be used by all Faculties. Grades for all courses taken prior to Fall 2001 appear on transcripts either as one of 15 letter grades from A+ to F-, or as numeric grades on a percentage scale.

### Fall 1971 to Spring 2001

#### Graduate Studies

<i>Assigned Letter Grade</i>	<i>Percentage Range</i>	<i>Average Calculation Value</i>
A+	90 – 100	95
A	85 – 89	89
A-	80 – 84	83
B+	77 – 79	78
B	73 – 76	75
B-	70 – 72	72
C+	67 – 69	68
C	63 – 66	65
C-	60 – 62	62
F	0 – 59	0

#### Undergraduate Studies

<i>Assigned Letter Grade</i>	<i>Percentage Range</i>	<i>Average Calculation Value</i>
A+	90 – 100	95
A	85 – 89	89
A-	80 – 84	83
B+	77 – 79	78
B	73 – 76	75
B-	70 – 72	72
C+	67 – 69	68
C	63 – 66	65
C-	60 – 62	62
D+	57 – 59	58
D	53 – 56	55
D-	50 – 52	52
F+	42 – 49	46
F	35 – 41	38
F-	0 – 34	32

## Non-numeric Grades

### Graduate Studies

<i>Grade</i>	<i>Description</i>
ACC	Accepted (thesis)
AEG	Aegrotat, credit granted due to illness or extenuating circumstances
AUD	Audit, no credit granted
CR	Credit granted
DNW	Did not write examination, no credit granted (value 0)
FTC	Failure to complete course requirements in a course with a grade of INC (incomplete), no credit granted (value 0)
INC	Incomplete course work, no credit granted
NAC	Not accepted (thesis)
NCR	No credit granted
NMR	No mark reported, no credit granted (value 0)
T	Transfer credit granted
UR	Under review, decision pending, no credit granted
WD	Withdrew, no credit granted

### Undergraduate Studies

<i>Grade</i>	<i>Description</i>
AEG	Aegrotat, credit granted under extraordinary circumstances
AUD	Audit, no credit granted
CR	Credit granted
DNW	Did not write examination, no credit granted (value 32)
FTC	Failure to complete course requirements, no credit granted (value 32)
INC	Incomplete course work, no credit granted
IP	Course in progress, no grade assigned at this time and no credit granted
MM	Missing mark
NCR	No credit granted, failure recorded
NG	In progress grade
NMR	No mark reported, no credit granted (value 32)
UR	Grade under review or disciplinary proceedings underway, decision pending, no credit granted
WD	Withdrew, no credit granted
WF	Withdrew/Failure, no credit granted (value 32)

### Notes

- Date format: MM/DD/YYYY.
- Milestone: A non-course requirement that must be met to receive the credential.
- Courses vary from 0.00 to 3.00 units. Most courses have a 0.50 unit and are of one-term duration. Course units are used to calculate weighted averages.
- **This transcript legend may be periodically updated.** Please visit [uwaterloo.ca/registrar/transcripts/transcript-legend](http://uwaterloo.ca/registrar/transcripts/transcript-legend) for the previous transcript legend.
- The University of Waterloo is a public university having full membership in the Council of Ontario Universities and the Association of Universities and Colleges of Canada. These memberships constitute full accreditation in Canada.

### Graduate Studies

1. Graduate students must obtain an average of at least 70% in the set of courses they present in fulfilment of course requirements for any graduate degree. Some departments may require higher program averages or course grades for graduate degrees.
2. The grading scheme for the external institution applies to courses taken for Graduate Studies transfer credit. A grade status of "T" is applied where the grading system from an external institution differs from that of the University of Waterloo.
3. A standing of INC will convert to FTC following a lapse period of two academic terms.
4. Courses "GS – Continuing Graduate Studies" and "GS 999 Continuing Degree Requirement" are administrative courses which are not graded.

### Undergraduate Studies

1. Courses with (WLU) in the description have been taught at Wilfrid Laurier University.
2. Grades for courses taken at Wilfrid Laurier University will be reported as letter grades and converted to University of Waterloo numeric values for the purpose of calculating averages.