



NAME: **Le, Hoang Minh**

RECORD AS OF: 2016-10-21

ISSUED TO: Microsoft

STUDENT NUMBER: 999019930

One Microsoft Way, Redmond WA 98052

OEN: 725523161

Redmond WA 98052

BIRTH DAY/MONTH: 24/12

U.S.A.

**REGISTRATION HISTORY**

2011 Fall - 2014 Winter : Faculty of Arts and Science

2015 Fall - 2016 Winter : Faculty of Arts and Science

**GRADUATION SUMMARY**

HONOURS BACHELOR OF SCIENCE CONFERRED - JUNE 2016 WITH HIGH DISTINCTION

**Faculty of Arts and Science**

Completed - 2016 Winter - SPECIALIST - COMPUTER SCIENCE

2012 Summer-Dean's List Scholar

2013 Winter-Dean's List Scholar

2014 Winter-Dean's List Scholar

2016 Winter-Dean's List Scholar

**2011 FALL - 1ST YEAR STUDIES IN COMPUTER SCIENCE - UNIVERSITY COLLEGE**

SESSIONAL GPA: 4.00 CUMULATIVE GPA: 4.00

CRS CODE TITLE	WGT	MRK	GRD	CRS	AVG
CSC099Y1 First-Year Learning Community	0.00		IPR		EXT
CSC108H1 Intro to Comp Prog	0.50	97	A+		C+
ECO100Y1 Intro Economics	1.00		IPR		
MAT137Y1 Calculus I	1.00		IPR		

Credits earned: 0.50

**2012 WINTER - 1ST YEAR STUDIES IN COMPUTER SCIENCE - UNIVERSITY COLLEGE**

SESSIONAL GPA: 4.00 ANNUAL GPA: 4.00 CUMULATIVE GPA: 4.00

STATUS: IN GOOD STANDING

CRS CODE TITLE	WGT	MRK	GRD	CRS	AVG
CSC099Y1 First-Year Learning Community	0.00		CR	*	EXT
CSC148H1 Intro to Comp Sci	0.50	97	A+		C+
CSC240H1 Enr Intro Theor Comp	0.50	91	A+		C+
ECO100Y1 Intro Economics	1.00	93	A+		C+
MAT137Y1 Calculus I	1.00	94	A+		C+
PSY100H1 Intro Psychology	0.50	85	A		C+

Credits earned: 3.50

**2012 SUMMER - BACHELOR'S DEGREE PROGRAM - UNIVERSITY COLLEGE**

SESSIONAL GPA: 3.35 CUMULATIVE GPA: 3.87

STATUS: IN GOOD STANDING

CRS CODE TITLE	WGT	MRK	GRD	CRS	AVG
FSL100H1 French for Beginners I	0.50	72	B-		B
MAT223H1 Linear Algebra I	0.50	93	A+		C

Credits earned: 1.00

**2012 FALL - BACHELOR'S DEGREE PROGRAM - UNIVERSITY COLLEGE**

SESSIONAL GPA: 4.00 CUMULATIVE GPA: 3.91

CRS CODE TITLE	WGT	MRK	GRD	CRS	AVG
CSC207H1 Software Design	0.50	85	A		B-
CSC265H1 Enr Data Struct Anal	0.50	85	A		B+
CSC463H1 Complex & Comput	0.50	89	A		B-
STA247H1 Prob Comp Appl	0.50	90	A+		C+

Credits earned: 2.00

**2013 WINTER - BACHELOR'S DEGREE PROGRAM - UNIVERSITY COLLEGE**

SESSIONAL GPA: 4.00 ANNUAL GPA: 4.00 CUMULATIVE GPA: 3.94

STATUS: IN GOOD STANDING

CRS CODE TITLE	WGT	MRK	GRD	CRS	AVG
CSC209H1 Soft Tools & Sys Prog	0.50	93	A+		C+
CSC258H1 Computer Organizatn	0.50	90	A+		B-
CSC324H1 Prog Languages	0.50	89	A		B-
CSC336H1 Numerical Methods	0.50	85	A		C
CSC343H1 Intro to Databases	0.50	97	A+		C+
SPA248H1 Stats For Comp Sci	0.50	89	A		B-

Credits earned: 3.00

**2013 FALL - BACHELOR'S DEGREE PROGRAM - UNIVERSITY COLLEGE**

SESSIONAL GPA: 4.00 CUMULATIVE GPA: 3.94

CRS CODE TITLE	WGT	MRK	GRD	CRS	AVG
CSC301H1 Intro to Soft Eng	0.50		CR		B+
CSC369H1 Operating Systems	0.50	85	A		C+
CSC372H1 Microprocessor Sftwr	0.50	85	A		B
CSC373H1 Algo Design & Analysis	0.50	90	A+		B
CSC411H1 Machine Learning	0.50		CR		B+

Credits earned: 2.50

**2014 WINTER - BACHELOR'S DEGREE PROGRAM - UNIVERSITY COLLEGE**

SESSIONAL GPA: 3.76 ANNUAL GPA: 3.85 CUMULATIVE GPA: 3.91

STATUS: IN GOOD STANDING

CRS CODE TITLE	WGT	MRK	GRD	CRS	AVG
CSC358H1 Intro Comp Networks	0.50	81	A-		B-
CSC384H1 Intro Artif Intell	0.50	82	A-		B-
CSC410H1 Software Test & Verif	0.50	90	A+		B
CSC438H1 Computabil & Logic	0.50	82	A-		C+
CSC488H1 Compilers & Interpreters	0.50	83	A-		B

Credits earned: 2.50

**2015 FALL - BACHELOR'S DEGREE PROGRAM - UNIVERSITY COLLEGE**

SESSIONAL GPA: 3.67 CUMULATIVE GPA: 3.89

CRS CODE TITLE	WGT	MRK	GRD	CRS	AVG
CSB201H1 Mol Bio Biotech & You	0.50		CR		B+
CSC318H1 Interact Comp Media	0.50	91	A+		A-
CSC458H1 Computer Networks	0.50	96	A+		B
ECE568H1 COMPUTER SECURITY	0.50	75	B		B
PSY280H1 Sensation & Perception	0.50		CR		B

Credits earned: 2.50

**2016 WINTER - BACHELOR'S DEGREE PROGRAM - UNIVERSITY COLLEGE**

SESSIONAL GPA: 3.94 ANNUAL GPA: 3.84 CUMULATIVE GPA: 3.89

STATUS: IN GOOD STANDING

CRS CODE TITLE	WGT	MRK	GRD	CRS	AVG
CSC309H1 Prog on the Web	0.50	90	A+		B
CSC427H5 Computer Security	0.50	85	A		B
CSC469H1 Oper Sys Design	0.50	82	A		C+
CSC494H1 Project in CSC	0.50	94	A+		A-

UCOSP Supervisor: K.Reid





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CSC495H1 Project in CSC  
SDN controller applications. Supervision:  
Y. Ganjali

0.50 92 A+ A-

Credits earned: 2.50

GWR Grade withheld pending review.

INC Incomplete.

IPR In progress.

(IPR will also appear if the course has not yet started or the course has finished but an approved grade is not yet available.)

LWD Late withdrawal without academic penalty.

NGA No grade available.

SDF Standing deferred on the basis of incomplete course work because of medical or similar reasons.

WDR Withdrawn without academic penalty.

XMP Exemption granted on the basis of credit for work done elsewhere. Course credit granted.

Candidacy Achieved

A student who has completed all program requirements for the PhD degree exclusive of thesis research will be considered a candidate in the School of Graduate Studies.

Richard Levin  
University Registrar

End of Transcript

## University of Toronto Guide to Transcript

Effective September 1998

Grade Meanings	Undergraduate Grade Scale			Graduate Grade Scale	
	Refined Letter Grade Scale	Numerical Scale of Marks	Grade Point Value	Truncated Letter Grade Scale	Numerical Scale of Marks
Excellent	A+	90 - 100%	4.0	A+	90 - 100%
	A	85 - 89%	4.0	A	85 - 89%
	A-	80 - 84%	3.7	A-	80 - 84%
Good	B+	77 - 79%	3.3	B+	77 - 79%
	B	73 - 76%	3.0	B	73 - 76%
	B-	70 - 72%	2.7	B-	70 - 72%
Adequate	C+	67 - 69%	2.3		
	C	63 - 66%	2.0		
	C-	60 - 62%	1.7		
Marginal	D+	57 - 59%	1.3		
	D	53 - 56%	1.0		
	D-	50 - 52%	0.7		
Inadequate	F	0 - 49%	0.0	FL	0 - 69%

Approved grade scales that are outside the standard system:

H (Honours), P (Pass), FL (Failure).

In cases where the FL grade is used in calculating grade point averages, the symbol FL% is used and a grade point value of 0.0 is assigned.

CR (Credit), NCR (No Credit).

In cases where the NCR grade is used in calculating grade point averages, the symbol NC% is used and a grade point value of 0.0 is assigned.

### Other Symbols and Notations:

ADD Additional course, taken for credit. Included in grade point averages.

(note: the following symbols are not used in calculating grade point averages.)

AEG Aegrotat standing granted on the basis of term work and medical or similar evidence. Course credit granted.

DNW Did not write/did not attend/did little work.

EXT Extra course, not for credit.

### Averages Information:

The following types of averages may appear:

GPA Grade Point Average\*

(\*for CTEP programs, the GPA does not include performance in B.Ed. courses)

ACCA GPA on the Academic Activity Component of the Bachelor of Physical Health and Education

CICA GPA on the Curriculum and Instruction Component of the Bachelor of Education and Diploma in Technical Education

CTPA GPA on the Bachelor of Education Activity Component of the Concurrent Teacher Education Program

FNCA GPA on Foundations Component of the Bachelor of Education and Diploma in Technical Education

PACA GPA on the Physical Activity Component of the Bachelor of Physical and Health Education

PERS Percentage Average

ACCUM. AVG  
Accumulated Average

### Awards Information:

Academic awards information is not listed on University of Toronto transcripts.

### Academic Sessions:

Fall Session (September - December)

Winter Session (January - April)

Summer Session (May - August)

### Course Credits:

A course with a weight of 1.00 equals 6 semester hours.

### Course Average:

Course average is shown for undergraduate courses with a size of 12 or more and is expressed as a letter grade corresponding to the refined letter grade scale. The symbol "\*" is used to indicate an undergraduate course with fewer than 12 students. A "blank" is used to indicate that a course average has not been calculated.

End of Guide