University of Waterloo
Graduate Studies Office
Waterloo, Ontario, Canada N2L 3G1
Tel 519.888.4567, ext 5411/Fax 519.746.3051
Web www.grad.uwaterloo.ca

GRADUATE STUDIES OFFICIAL TRANSCRIPT
ISSUED TO STUDENT

October 25, 2005

Director of Graduate Studies
Academic Services

Name: Deng,Henghua
Student ID: 00800866

- - - - - Degrees Awarded - - - - -

Degree: Doctor of Philosophy
Electrical and Computer Engineering
Confer Date: October 22, 2005

- - - - - Beginning of Graduate Record - - - - -

Winter 2001

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, MASc	Full-Time	1.00	ENRL

Course	*Description*	*Attempted/Earned*	*Grade*	*Designation*
ECE 678	Fourier Optics & Optical Sig Proc	0.50/0.00	AUD	
ECE 703	Phys & Modeling of Semicond Devices	0.50/0.50	86	PHD
ECE 770	Photonic Communication Systems and Devices	0.50/0.50	91	PHD

Spring 2001

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, MASc	Full-Time	2.00	ENRL

Course	*Description*	*Attempted/Earned*	*Grade*	*Designation*
ECE 705	Low-Voltage Devices and Circuits	0.50/0.50	90	PHD

Fall 2001

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, MASc	Full-Time	3.00	ENRL

Course	*Description*	*Attempted/Earned*	*Grade*	*Designation*
SYDE 622	Machine Intelligence	0.50/0.50	90	PHD

Winter 2002

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, PhD	Full-Time	1.00	ENRL

Continuing Graduate Studies

Spring 2002

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, PhD	Full-Time	2.00	ENRL

Continuing Graduate Studies

Fall 2002

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, PhD	Full-Time	3.00	ENRL

Continuing Graduate Studies

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Director of Graduate Studies
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Name: Deng,Henghua
Student ID: 00800866

Winter 2003

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, PhD	Full-Time	1.00	ENRL

Continuing Graduate Studies

Spring 2003

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, PhD	Full-Time	2.00	ENRL

Continuing Graduate Studies

Fall 2003

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, PhD	Full-Time	3.00	ENRL

Continuing Graduate Studies

Winter 2004

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, PhD	Full-Time	4.00	ENRL

Continuing Graduate Studies

Spring 2004

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, PhD	Full-Time	5.00	ENRL

Continuing Graduate Studies

Fall 2004

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, PhD	Full-Time	6.00	ENRL

Continuing Graduate Studies

Winter 2005

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, PhD	Full-Time	7.00	ENRL

Continuing Graduate Studies

Spring 2005

Program	*Attendance*	*Term*	*Status*
Electrical and Computer Engineering, PhD	Full-Time	8.00	ENRL

Degree Completed Date: July 28, 2005

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ISSUED TO STUDENT

October 25, 2005

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Lynn Judge
Director of Graduate Studies
Academic Services

Name: Deng,Henghua
Student ID: 00800866

- - - - - Milestones - - - - -

Milestone	*Status*	*Grade*	*Title*
PhD Seminar	Completed	CR	
PhD Comprehensive Examination	Completed	CR	
PhD Thesis 2.0	Completed	ACC	Design and Characterization of Silicon-On-Insulator Passive Polarization Converter With Finite-Element Analysis
Doctoral Degree Completion	Completed		

- - - - - End of Transcript - - - - -

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Grading

Effective Fall 2001

Graduate Studies

Numeric marks on a scale from 0 – 100 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 marks on a percentage scale.

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

Undergraduate Studies

Numeric marks on a scale from 0 – 100 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 marks on a percentage scale.

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

Fall 1971 to Spring 2001

Graduate Studies

Letter Grade Range	*Percentage Range*	*Value*
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

Letter Grade Range	*Percentage Range*	*Value*
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-Graded Standings

Graduate Studies

Designation	*Description*
ACC	Accepted (thesis)
AEG	Aegrotat, credit granted due to illness
AUD	Audit only, no credit granted
CR	Credit granted
DNW	Did not write examination, no credit granted
FTC	Failure to complete incomplete course work, no credit granted
INC	Incomplete course work, no credit granted
NAC	Not accepted (thesis)
NCR	No credit granted
NMR	No mark reported, no credit granted
UR	Under review, decision pending
WD	Withdrawn, no credit granted

Undergraduate Studies

Designation	*Description*
AEG	Aegrotat, credit granted due to illness
AUD	Audit only, no credit granted
CR	Credit granted
DNW	Did not write examination, no credit granted (value 32)
FTC	Failure to complete incomplete course work, 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
NMR	No mark reported, no credit granted (value 32)
RPL	Supplemental grade confirming a failed course has been replaced by a suitable alternative passed course
UR	Under review, decision pending
WD	Withdrew after the course drop deadline, no credit granted
WF	Withdrew/Failure, no credit granted (value 32)

Notes:

Graduate

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.
3. A standing of INC will convert to FTC following a lapse period of two academic terms.

Undergraduate

1. A standing of INC will convert to FTC following a lapse period specified by the student's faculty.
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.
3. Courses with *(WLU)* in the description have been taught at Wilfrid Laurier University.

University of Waterloo Requirement Designations

Graduate Studies

Designation	*Description*	*Designation*	*Description*
GCER	Graduate certificate	MSTR	Master's degree requirement
GDIP	Graduate diploma	PHD	Doctor of Philosophy degree requirement
MPHL	Master of Philosophy degree requirement	XTRA	Extra to degree

Undergraduate Studies

Designation	*Description*	*Designation*	*Description*
BAFM	Accounting and Financial Management area of interest	MDVL	Medieval course content
CERT	Certificate	NACC	Not accountable – faculty transfer
CLC	Credit cleared	NRNA	Not required, not in average
CLF	Fail cleared	SDEV	Social Development Studies theme
CLR	Grade cleared	SLED	Sustainable Local Economic Development project
CRSE	Course requirement exception	SRNA	Satisfies requisites, not in average
DRNA	Degree requirement, not in average	STV	Society, Technology, and Values theme
ENGL	English proficiency	SUPA	Supplementary examination allowed
HCGC	Honours credit for general course	SUPP	Supplementary examination
IXFR	Internal transfer credit	TRIA	Term requirement, in average
LOP	Course taken on letter of permission	XCUM	Exclude from cumulative average
MACA	Only include in major average and cumulative average	XMCA	Exclude from major and cumulative average
MAJR	Include in major average by exception	XMJR	Exclude from major average
		XTRA	Extra to degree

Course unit weights are used to calculate weighted averages. Courses are given unit weights which vary from 0.25 to 1.00 credit or more. Most courses have a 0.50 unit weight and are of one-term duration.

This transcript legend may be periodically updated. Please visit *www.adm.uwaterloo.ca/inforeg/services/transcript_legend.html* for the *latest transcript legend* and *prior to Fall 1971 grade information.*

Registrar January 2005 1301-1