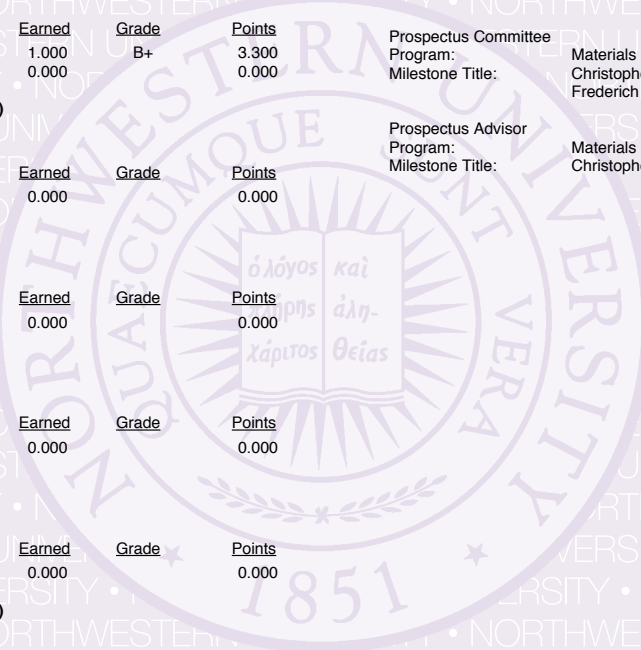


Northwestern University
633 Clark Street
Evanston, IL 60208
United States

Name: Liu, Mohan
Student ID: 2790852

Official Graduate Transcript

Course	Description	Attempted	Earned	Grade	Points	Program	Non-Course Milestones
2017 Winter (01/03/2017- 03/18/2017)							
Program: Materials Science and Eng: PhD							
TGS	500-0	Advanced Doctoral Study	0.000	0.000	0.000		
2017 Spring (03/27/2017- 06/10/2017)							
Program: Materials Science and Eng: PhD							
EECS	336-0	Design & Analysis of Algorithms	1.000	1.000	B+	3.300	Prospectus Committee
TGS	500-0	Advanced Doctoral Study	0.000	0.000	0.000		Program: Materials Science and Eng: PhD
2017 Summer (06/19/2017- 08/26/2017)							
Program: Materials Science and Eng: PhD							
TGS	500-0	Advanced Doctoral Study	0.000	0.000	0.000		Milestone Title: 5/13/2016
2017 Fall (09/19/2017- 12/09/2017)							
Program: Materials Science and Eng: PhD							
TGS	500-0	Advanced Doctoral Study	0.000	0.000	0.000		Milestone Title: Christopher M. Wolverton
2018 Winter (01/08/2018- 03/24/2018)							
Program: Materials Science and Eng: PhD							
TGS	500-0	Advanced Doctoral Study	0.000	0.000	0.000		Prospectus Advisor
2018 Spring (04/03/2018- 06/16/2018)							
Program: Materials Science and Eng: PhD							
TGS	500-0	Advanced Doctoral Study	0.000	0.000	0.000		Program: Materials Science and Eng: PhD
2018 Summer (06/25/2018- 09/02/2018)							
Program: Materials Science and Eng: PhD							
TGS	500-0	Advanced Doctoral Study	0.000	0.000	0.000		Milestone Title: Christopher M. Wolverton
2018 Fall (09/27/2018- 12/15/2018)							
Program: Materials Science and Eng: PhD							
TGS	500-0	Advanced Doctoral Study	0.000	0.000	0.000		
2019 Winter (01/07/2019- 03/23/2019)							
Program: Materials Science and Eng: PhD							



NORTHWESTERN UNIVERSITY

Evanston, Illinois

ACCREDITATION

Northwestern University is accredited by the Higher Learning Commission (www.hlcommission.org). Other professional, college, school, and departmental accreditations are listed here:
http://www.registrar.northwestern.edu/academic_records/index.html
 Northwestern University's CEEB code is 001739.

OFFICE OF RECORD

The Office of the Registrar, 633 Clark Street, Evanston, Illinois 60208, (847) 491-5234, fax: (847) 491-8458, www.registrar.northwestern.edu, issues transcripts of records for the following schools in the University. Such transcripts are a complete and chronological listing of all courses attempted in any of the schools listed.

Bielen School of Music	Kellogg School of Management
Dental School (closed 2001)	School of Communication (formerly Speech)
The Graduate School	School of Education and Social Policy
McCormick School of Engineering and Applied Science	Weinberg College of Arts and Sciences
Graduate Nursing School (closed 1990)	Medill School of Journalism, Media, Integrated Marketing Communications
Physician Assistant Program	Prosthetics-Orthotics (Master's program only)

The Office of the Dean/Director of each school/program listed below issues transcripts of records for these units. These transcripts must be requested separately and in addition to any transcripts from other Northwestern schools.

Northwestern Pritzker School of Law (312) 503-8464, www.law.northwestern.edu
 Northwestern University in Qatar 974-4454-5072, www.qatar.northwestern.edu
 Feinberg School of Medicine (312) 503-1369 www.feinberg.northwestern.edu
 School of Professional Studies (312) 503-6950 www.sps.northwestern.edu
 Physical Therapy (312) 908-8160 www.feinberg.northwestern.edu/sites/pthms/
 Prosthetics-Orthotics (certificates) (312) 503-5700 www.nupoc.northwestern.edu/

ACADEMIC CALENDARS

Northwestern University offers programs on numerous calendars. Unless listed specifically below, the calendar on this transcript is a quarter system consisting of three quarters lasting approximately 10 weeks and one summer session lasting 10-11 weeks. Terms may include shorter sessions. The Executive MBA Program through the Kellogg School of Management is an exception with class meetings on designated weekends during terms corresponding to the quarter calendar.

Northwestern University in Qatar operates on a traditional semester calendar consisting of two terms each lasting 16 weeks and one summer term.

The Physician Assistant Program operates on a trimester calendar consisting of three terms each lasting 16 weeks.

The Physical Therapy Program operates on a semester calendar consisting of three terms each lasting 16 weeks.

The Prosthetics-Orthotics master's program uses a course unit system in which a 1 in the earned and attempted column = 1-unit course. For the purpose of transfer credit, one unit should be considered to be the equivalent of four quarter hours or 2 2/3 semester hours.

CREDIT

For quarter-based programs, in September 1969 NU began using a course unit system in which a 1 in the earned and attempted column = 1-unit course. For the purpose of transfer credit, one unit should be considered to be the equivalent of **four quarter hours or 2 2/3 semester hours**.

Prior to 2006 the Summer Session was based on a semester system and credits taken in that context should be considered to be the equivalent of four quarter hours or three semester hours.

For an explanation of credits earned in quarter-based programs prior to 1969: http://www.registrar.northwestern.edu/academic_records/index.html

The Physician Assistant program uses a trimester hour credit measure in which each credit hour corresponds to an hour of meeting time for each week of a 16-week trimester.

The Physical Therapy program uses a semester hour credit measure in which each credit hour corresponds to an hour of meeting time for each week of a 16-week semester.

The Prosthetics-Orthotics master's program uses a course unit system in which a 1 in the earned and attempted column = 1 course. For the purpose of transfer credit, one course should be considered to be the equivalent of four quarter hours or 2 2/3 semester hours.

Northwestern University in Qatar uses a course unit system in which a 1 in the earned and attempted column = 1-unit course. For the purposes of transfer credit, one unit should be considered to be the equivalent of four semester hours.

GRADE POINT AVERAGE (GPA)

All courses attempted are recorded on the transcript and used in the GPA calculation. GPA is computed by taking the total grade points divided by the attempted units. NR, T, TR, P, N, K, S, U, and W grades are not included in GPA calculations.

Northwestern University does not calculate major GPAs nor does it rank its students.

EXPLANATION OF GRADE POINTS AND GRADES

For grade categories and years not represented below visit:
www.registrar.northwestern.edu/academic_records/index.html

Note: GPAs are not calculated on official graduate and professional transcripts.

ABC GRADING SCALE

Grade Points	Grade	Description
4.0	A	Excellent
3.7	A-	
3.3	B+	
3.0	B	Good
2.7	B-	
2.3	C+	
2.0	C	Satisfactory
1.7	C-	
1.0	D	Poor but passing
0.0	F	Fail
0.0	X	Missed final exam
0.0	Y	Work incomplete

BY SCHOOL, WHEN THE GRADE RUBRIC ABOVE IS APPLICABLE

Undergraduate Programs	September 1982 - present
Bielen School of Music (graduate programs)	January 2005 – present
School of Communication (graduate programs)	September 2005 – present
School of Education and Social Policy (graduate programs – D grade not used)	March 2005 - present
The Graduate School (D grade not used)	September 2004 - present
Medill School of Journalism, Media, Integrated Marketing Communications (graduate programs – D grade not used)	October 1986 - present
McCormick School of Engineering and Applied Science (graduate programs)	September 1996 - present

GRADE POINTS AND GRADES USED BY KELLOGG SCHOOL OF MANAGEMENT (non-executive MBA Programs)

Grade Points	Grade	Description
4.0	A	Excellent
3.0	B	Good
2.0	C	Satisfactory
1.0	D	Poor but passing
0.0	F	Fail
0.0	X	Missed final exam
0.0	Y	Work incomplete

TRANSCRIPT NOTATIONS AND ABBREVIATIONS CURRENTLY IN USE

HP	High Pass
K	Indicates work in progress°
LP	Low Pass
N	No grade, no credit°
NR	No grade Reported by Instructor
P	Pass with credit°
S	Satisfactory (non-credit course)
T	Transfer grade° (Spring Quarter 1969-70, full academic credit)
TR	Transfer grade° (Qatar Campus)
U	Unsatisfactory (non-credit course)
V	Visitor (auditor)
W	Withdrew - with permission
X	Absent from final examination°°
Y	Incomplete - Additional work required°°
°	Not included in either the quarterly or the cumulative grade point average
°°	Carries zero grade points and included in calculation of GPA. Both the quarterly and cumulative GPA are changed if a final grade is reported

TRANSCRIPT SYMBOLS

*	Grades received by special report
#	Duplication
##	Not applicable toward degree

For transcript notations and symbols not described here:
http://www.registrar.northwestern.edu/academic_records/index.html

DEGREES AWARDED

For a complete list of degrees awarded:
www.registrar.northwestern.edu/academic_records/index.html

TRANSFER CREDIT

Undergraduate records document articulated transfer credit by listing the institution of record and a T grade for each approved course. Grades for work transferred from another institution are not recorded. If such grades are needed the student must request a transcript directly from the awarding institution.

STATUS

Students should be regarded as in good academic standing unless otherwise noted. Each unit devises a probation/suspension/withdrawal policy, as well as academic eligibility to re-enroll after an absence.

COURSE NUMBERING SYSTEM

A/100 level	Courses primarily for freshmen and sophomores, usually without college prerequisite.
B/200 level	Courses primarily for sophomores and juniors, usually with the prerequisite of an A/100 level course in the same or a related department.
C/300 level	Courses primarily for upperclassmen and graduates, often with the prerequisites of an A/100 and/or B/200 level course in the same or a related department.
D/400 level	Courses or seminars primarily for graduates, in which the major part of the work is not research.
E/500 level	Courses for graduates only; seminars in which the work is primarily research, or special research by the individual student under faculty direction.

COURSE SUBJECTS AND DESCRIPTIONS

For more details: www.northwestern.edu/caesar/

This Transcript Key was last updated in September 2016.