



NAME: **Swarup, Arushri**

RECORD AS OF: 2016-11-28

STUDENT NUMBER: 998866071

OEN: 344034004

ISSUED TO: Arushri Swarup

BIRTH DAY/MONTH: 20/08

58 Northforest Trail

Kitchener ON N2N 2Z1

REGISTRATION HISTORY

2011 Fall - 2016 Winter : Faculty of Applied Science & Engineering

2016 Fall - 2017 Winter : School of Graduate Studies

GRADUATION SUMMARY

BACHELOR OF APPLIED SCIENCE IN ENGINEERING SCIENCE CONFERRED - JUNE 2016 WITH HONOURS

Faculty of Applied Science & Engineering

2011 FALL - BASC IN ENGINEERING SCIENCE - DIVISION OF ENGINEERING SCIENCE

SESSIONAL GPA: 2.38 CUMULATIVE GPA: 2.38

SESSIONAL PERS: 68.2

STATUS: PASS

CRS CODE	TITLE	WGT	MRK	GRD	CRS	AVG
CIV102H1	STRUCT. & MATERIALS	0.50	62	C-	B-	
CSC180H1	INT. TO COMP. PROGRAM.	0.50	68	C+	B	
ESC101H1	PRAXIS I	0.50	70	B-	B	
ESC103H1	ENG. MATHEMATICS & COMPUTATION	0.50	57	D+	B	
MAT194H1	CALCULUS I	0.50	85	A	B-	
PHY180H1	CLASSICAL MECHANICS	0.50	67	C+	B	

May proceed

2012 WINTER - BASC IN ENGINEERING SCIENCE - DIVISION OF ENGINEERING SCIENCE

SESSIONAL GPA: 2.72 ANNUAL GPA: 2.55 CUMULATIVE GPA: 2.55

SESSIONAL PERS: 72.0

STATUS: PASS

CRS CODE	TITLE	WGT	MRK	GRD	CRS	AVG
CSC190H1	COMP. ALGOR. & DATA STRUCTURES	0.50	68	C+	B	
ECE159H1	FUNDAMENTALS OF ELEC. CIRCUITS	0.50	63	C	C+	
ESC102H1	PRAXIS II	0.50	83	A-	B	
MAT185H1	LINEAR ALGEBRA	0.50	75	B	B-	
MAT195H1	CALCULUS II	0.50	75	B	B	
MSE160H1	MOLECULES AND MATERIALS	0.50	68	C+	B	

May proceed

2012 FALL - BASC IN ENGINEERING SCIENCE - DIVISION OF ENGINEERING SCIENCE

SESSIONAL GPA: 2.90 CUMULATIVE GPA: 2.67

SESSIONAL PERS: 73.5

STATUS: PASS

CRS CODE	TITLE	WGT	MRK	GRD	CRS	AVG
AER210H1	VECTOR CALC. & FLUID MECHANICS	0.50	80	A-	B	
CHE260H1	THERMODYNAMICS	0.50	76	B	B	
ECE253H1	DIGITAL & COMPUT. SYS	0.50	64	C	B-	
ESC203H1	ENG. SOCIETY & CRITICAL THINKING	0.50	75	B	B	
MAT292H1	Calculus III	0.50	76	B	B-	
PHY293H1	WAVES AND MODERN PHYSICS	0.50	70	B-	B	

May proceed

2013 WINTER - BASC IN ENGINEERING SCIENCE - DIVISION OF ENGINEERING SCIENCE

SESSIONAL GPA: 3.17 ANNUAL GPA: 3.03 CUMULATIVE GPA: 2.79

SESSIONAL PERS: 76.2

STATUS: PASS

CRS CODE	TITLE	WGT	MRK	GRD	CRS	AVG
AER201H1	ENGINEERING DESIGN	0.50	73	B	B	
BME205H1	BIOMOLECULES AND CELLS	0.50	78	B+	B-	
ECE259H1	ELECTRICITY AND MAGNETISM	0.50	76	B	B-	
NMC344H1	Ancient Egypt II	0.50	76	B	B-	
PHY294H1	QUANTUM AND THERMAL PHYSICS	0.50	80	A-	B-	
STA286H1	PROBABILITY & STATISTICS	0.50	74	B	B-	

May proceed

2013 FALL - BASC IN ENGINEERING SCIENCE (MAJOR IN BIOMEDICAL SYSTEMS ENGINEERING) - DIVISION OF ENGINEERING SCIENCE

SESSIONAL GPA: 3.48 CUMULATIVE GPA: 2.91

SESSIONAL PERS: 80.8

STATUS: PASS WITH HONOURS

CRS CODE	TITLE	WGT	MRK	GRD	CRS	AVG
APM384H1	PARTIAL DIFFERENTIAL EQUATIONS	0.50	81	A-	B	
BME344H1	MODEL, DYN., & CONTROL BIO SYS	0.50	76	B	B	
BME350H1	BIO SYS ENG I: ORGAN SYSTEMS	0.50	83	A-	B+	
BME355H1	BIO SYS ENG II: CELLS & TISSUE	0.50	88	A	B+	
CHE391H1	ORGANIC CHEM. & BIOCHEM.	0.50	76	B	B-	
ESC301Y1	ENG. SCI OPTION SEMINAR	0.10			IPR	

May proceed

2014 WINTER - BASC IN ENGINEERING SCIENCE (MAJOR IN BIOMEDICAL SYSTEMS ENGINEERING) - DIVISION OF ENGINEERING SCIENCE

SESSIONAL GPA: 3.74 ANNUAL GPA: 3.61 CUMULATIVE GPA: 3.03

SESSIONAL PERS: 82.2

STATUS: PASS WITH HONOURS

CRS CODE	TITLE	WGT	MRK	GRD	CRS	AVG
BME346H1	BIOMED ENG & OMICS TECHNOLOGY	0.50	85	A	B+	
BME358H1	MOLECULAR BIOPHYSICS	0.50	77	B+	B	
BME396H1	BIO SYS ENG III: MOLE. & CELLS	0.50	80	A-	B+	
ESC301Y1	ENG. SCI OPTION SEMINAR	0.10			CR	
MIE439H1	BIOMECHANICS	0.50	87	A	B+	
MSE352H1	BIOMAT. & BIOCOMPAT.	0.50	82	A-	B	

May proceed

2014 FALL - BASC IN ENGINEERING SCIENCE (MAJOR IN BIOMEDICAL SYSTEMS ENGINEERING) - DIVISION OF ENGINEERING SCIENCE

CRS CODE TITLE

CRS CODE	TITLE	WGT	MRK	GRD	CRS	AVG
PEY500Y1	PROFESSIONAL EXP.YR.	0.00			IPR	

In March 2015, the University of Toronto was

affected by a labour disruption. As a result,

some students were graded on the University's

approved Credit/No Credit scale (see transcript

key), rather than receiving a letter or numeric

grade, for courses completed in Winter 2015.

For more information see:

<http://www.transcripts.utoronto.ca/guide>



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NAME: **Swarup, Arushri** RECORD AS OF: **2016-11-28**
STUDENT NUMBER: **998866071**

ISSUED TO: **Arushri Swarup** OPEN:

UNIVERSITY OF TORONTO • UNIVERSITY OF TORONTO • UNIVERSITY OF TORONTO
BIRTH DAY/MONTH: **20/08**

2015 WINTER - BASC IN ENGINEERING SCIENCE (MAJOR IN BIOMEDICAL
SYSTEMS ENGINEERING) - DIVISION OF ENGINEERING SCIENCE
CRS CODE TITLE: **WGT MRK GRD CRS AVG**

PEY500Y1 PROFESSIONAL EXP.YR. **0.00** • **CR**

2015 FALL - BASC IN ENGINEERING SCIENCE (MAJOR IN BIOMEDICAL SYSTEMS
ENGINEERING) - DIVISION OF ENGINEERING SCIENCE

SESSIONAL GPA: **3.75** CUMULATIVE GPA: **3.11**

SESSIONAL PERS: **84.0**

STATUS: PASS WITH HONOURS

CRS CODE TITLE: **WGT MRK GRD CRS AVG**

BME428H1 BIO SYS ENG IV: COMP. SYS. BIO **0.50** **80** **A-** **A-**

BME460H1 BIOMAT & MED DEVICE PROD DEVN **0.50** **88** **A** **A**

BME489H1 BIOMEDICAL SYSTEMS ENG. DESIGN **0.50** **89** **A** **A-**

CHE374H1 ECO.ANA.& DEC.MAKING **0.50** **79** **B+** **B+**

ESC499Y1 THESIS **1.00** **IPR**

May proceed

2016 WINTER - BASC IN ENGINEERING SCIENCE (MAJOR IN BIOMEDICAL
SYSTEMS ENGINEERING) - DIVISION OF ENGINEERING SCIENCE

SESSIONAL GPA: **3.83** ANNUAL GPA: **3.80** CUMULATIVE GPA: **3.21**

SESSIONAL PERS: **83.5**

STATUS: PASS WITH HONOURS

CRS CODE TITLE: **WGT MRK GRD CRS AVG**

BME510H1 REGENERATIVE MEDICINE **0.50** **85** **A** **A-**

ESC499Y1 THESIS **1.00** **85** **A** **A-**

HMB200H1 Neuroscience **0.50** **83** **A-** **B**

HPS303H1 Top: History of Medicine **0.50** **85** **A** **B+**

NMC102H1 Ancient Empires **0.50** **78** **B+** **B-**

PER001H1 PRACTICAL EXPER. REQUIREMENT **0.00** **CR**

May proceed

School of Graduate Studies

2016 FALL - MASTER OF APPLIED SCIENCE, BIOMEDICAL ENGINEERING -
INSTITUTE OF BIOMATERIALS & BIOMEDICAL ENGINEERING

CRS CODE TITLE: **WGT MRK GRD CRS AVG**

BME1010H Graduate Seminar **0.50** **IPR**

BME1450H Bioengineering Science **0.50** **IPR**

BME1480H Experimental Design and Multivariate **0.50** **IPR**

Analysis in Bioengineering

JDE1000H Ethics in Research **0.50** **IPR**

RST9999Y Research/Thesis **0.00** **IPR**

2017 WINTER - MASTER OF APPLIED SCIENCE, BIOMEDICAL ENGINEERING -
INSTITUTE OF BIOMATERIALS & BIOMEDICAL ENGINEERING

CRS CODE TITLE: **WGT MRK GRD CRS AVG**

BME1010H Graduate Seminar **0.50** **IPR**

REH1510H Disordered and Restorative Motor Control **0.50** **IPR**

RST9999Y Research/Thesis **0.00** **IPR**

R. Levin
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+ A A-	90 - 100% 85 - 89% 80 - 84%	4.0 4.0 3.7	A+ A A-	90 - 100% 85 - 89% 80 - 84%
Good	B+ B B-	77 - 79% 73 - 76% 70 - 72%	3.3 3.0 2.7	B+ B B-	77 - 79% 73 - 76% 70 - 72%
Adequate	C+ C C-	67 - 69% 63 - 66% 60 - 62%	2.3 2.0 1.7	C+ C C-	67 - 69% 63 - 66% 60 - 62%
Marginal	D+ D D-	57 - 59% 53 - 56% 50 - 52%	1.3 1.0 0.7	D+ D D-	57 - 59% 53 - 56% 50 - 52%
Inadequate	F	0 - 49%	0.0	FZ	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 Agrotat 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.

GWR Grade withheld pending review.

INC Incomplete.

IPR In progress.



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(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.

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