uOttawa

Unofficial Transcript

Name: **Justin Tam**
Student ID: **300026741**   **OEN: 243436946**

Print Date: 2024-06-29
05-14

Start of Transcript

2017 Fall Term

Honours BSc in Physics /
BASc in Electrical Engineering

Transfer units from Cours BI / IB Courses

Course		Description	Grade	Earned		
CHM	1311	Principles of Chemistry	Q	3.00		
PHY	1122	Fundamentals of Physics II	Q	3.00		
Transfer Total				**6.00**		

Course		Description	Grade	Earned	Average	Size
GNG	1106	Fundamentals of Engineering Computation	A+	3.00	5.44	155
MAT	1320	Calculus I	A+	3.00	5.75	221
MAT	1341	Introduction to Linear Algebra	A+	3.00	5.98	148
PHY	1121	Fundamentals of Physics I	A	3.00	5.00	39

			Earned	GPA Units
TGPA	9.75	**Total**	**18.00**	**12.00**
CGPA	9.75	**Total**	**18.00**	

Dean's Honour List

Academic standing effective 2018-02-01: Satisfactory Cumulative Grade Point Average (CGPA)

2018 Winter Term

Honours BSc in Physics /
BASc in Electrical Engineering

Course		Description	Grade	Earned	Average	Size
ECO	1192	Engineering Economics	A+	3.00	6.73	247
GNG	1103	Engineering Design	A	3.00	7.15	93
ITI	1100	Digital Systems I	A-	3.00	5.91	189
MAT	1322	Calculus II	A+	3.00	5.82	209

			Earned	GPA Units
TGPA	9.25	**Total**	**12.00**	**12.00**
CGPA	9.50	**Total**	**30.00**	

Dean's Honour List

Academic standing effective 2018-05-28: Good academic standing

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2018 Fall Term

Honours BSc in Physics /
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Course		Description	Grade	Earned	Average	Size
CEG	2136	Computer Architecture I	A+	3.00	6.09	187
ELG	2138	Circuit Theory I	A+	3.00	5.65	130
MAT	2322	Calculus III for Engineers	A+	3.00	6.28	239
MAT	2384	Ordinary Differential Equations and Numerical Methods	A+	3.00	6.92	206
PHY	2311	Waves and Optics	A-	3.00	5.62	39
PHY	2333	Mechanics	A+	3.00	5.22	107

			Earned	GPA Units
TGPA	**9.67**	**Total**	**18.00**	**18.00**
CGPA	**9.57**	**Total**	**48.00**	

Dean's Honour List

Academic standing effective 2019-01-24: Good academic standing

2019 Winter Term

Honours BSc in Physics /
BASc in Electrical Engineering

Course		Description	Grade	Earned	Average	Size
ELG	2136	Electronics I	A+	3.00	4.98	123
ELG	2137	Circuit Theory II	A	3.00	6.21	66
ENG	1112	Technical Report Writing	A+	3.00	6.73	99
PHY	2323	Electricity and Magnetism	A+	3.00	6.20	198
PHY	2361	Modern Physics	A+	3.00	5.75	44

			Earned	GPA Units
TGPA	**9.80**	**Total**	**15.00**	**15.00**
CGPA	**9.63**	**Total**	**63.00**	

Dean's Honour List

Academic standing effective 2019-05-24: Good academic standing

2019 Fall Term

Honours BSc in Physics /
BASc in Electrical Engineering

Course		Description	Grade	Earned	Average	Size
CEG	3136	Computer Architecture II	B	3.00	6.52	162
ELG	3106	Electromagnetic Engineering	A	3.00	6.33	96
ELG	3125	Signal and System Analysis	A+	3.00	6.58	75
ELG	3136	Electronics II	A-	3.00	6.58	100
MUS	1303	Materials of Music I	A	3.00	7.44	54

			Earned	GPA Units
TGPA	**8.40**	**Total**	**15.00**	**15.00**
CGPA	**9.38**	**Total**	**78.00**	

Academic standing effective 2020-01-23: Good academic standing

uOttawa

Unofficial Transcript

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2020 Winter Term

Honours BSc in Physics /
BASc in Electrical Engineering

Course		Description	Grade	Earned	Average	Size
ELG	3126	Random Signals and Systems	A	3.00	N/A	N/A
ELG	3137	Fundamentals of Semiconductor Devices	A+	3.00	N/A	N/A
ELG	3155	Introduction to Control Systems	S	3.00	N/A	N/A
ELG	3175	Introduction to Communication Systems	A+	3.00	N/A	N/A
ELG	3316	Electric Machines and Power Systems	S	3.00	N/A	N/A

The Winter 2020 course average is unavailable due to a qualitative grading option.

			Earned	GPA Units
TGPA	9.67	Total	**15.00**	**9.00**
CGPA	9.41	Total	**93.00**	

Dean's Honour List

Academic standing effective 2020-06-08: Good academic standing

2020 Spring/Summer Term

Honours BSc in Physics /
BASc in Electrical Engineering

Course		Description	Grade	Earned	Average	Size
HIS	2129	Technology, Society and Environment Since 1800	A-	3.00	5.77	122

			Earned	GPA Units
TGPA	8.00	Total	**3.00**	**3.00**
CGPA	9.36	Total	**96.00**	

Academic standing effective 2020-09-23: Good academic standing

2020 Fall Term

Honours BSc in Physics /
BASc in Electrical Engineering

Course		Description	Grade	Earned	Average	Size
CEG	4158	Computer Control in Robotics	A	3.00	7.96	53
ELG	4912	Electrical Engineering Design Project: Part I	A+	3.00	10.00	72
PHY	3341	Theoretical Physics	B	3.00	6.06	21
PHY	3350	Thermodynamics	B+	3.00	6.48	28
PHY	3370	Introductory Quantum Mechanics	A+	3.00	7.69	16

			Earned	GPA Units
TGPA	8.40	Total	**15.00**	**15.00**
CGPA	9.21	Total	**111.00**	

Academic standing effective 2021-02-08: Good academic standing

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Unofficial Transcript

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2021 Winter Term

**Honours BSc in Physics /
BASc in Electrical Engineering
(Co-op)**

Course		Description	Grade	Earned	Average	Size
SCI	3901	Co-op Work Term	P	3.00	N/A	N/A

				Earned	GPA Units	
TGPA		**0.00 Total**		**3.00**	**0.00**	
CGPA		**9.21 Total**		**114.00**		

Dean's Honour List

Academic standing effective 2021-06-10: Good academic standing

2021 Fall Term

**Honours BSc in Physics /
BASc in Electrical Engineering
(Co-op)**

Course		Description	Grade	Earned	Average	Size
ELG	4156	Linear Systems Repeated course	EIN	NC	6.64	78
MAT	2362	Foundations of Mathematics Repeated course	EIN	NC	3.84	86

				Earned	GPA Units	
TGPA		**0.00 Total**		**0.00**	**0.00**	
CGPA		**9.21 Total**		**114.00**		

Academic standing effective 2022-01-26: Good academic standing

2022 Fall Term

**Honours BSc in Physics /
BASc in Electrical Engineering
(Co-op)**

Course		Description	Grade	Earned	Average	Size
ELG	4156	Linear Systems Repeated course	A	3.00	5.16	57
MAT	2362	Foundations of Mathematics Repeated course	A	3.00	5.82	66
PHY	40061	Physics Research Project (Part 1 of 2)	CTN	NC	N/A	N/A
PHY	4370	Quantum Mechanics	B	3.00	7.15	27
PHY	4382	Introduction to Solid State Physics	B+	3.00	7.04	27

				Earned	GPA Units	
TGPA		**7.75 Total**		**12.00**	**12.00**	
CGPA		**9.05 Total**		**126.00**		

Academic standing effective 2023-01-25: Good academic standing

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2023 Winter Term

Honours BSc in Physics /
BASc in Electrical Engineering
(Co-op)

Course		Description	Grade	Earned	Average	Size
ELG	2911	Professional Practice in Information Technology and Engineering	A+	3.00	9.18	103
ELG	4137	Principles and Applications of VLSI Design	A	3.00	6.67	66
ELG	4159	Integrated Control Systems	A+	3.00	5.78	81
ELG	4913	Electrical Engineering Design Project: Part II	B+	3.00	9.51	67
PHY	40062	Physics Research Project (Part 2 of 2)	A+	6.00	8.32	22

			Earned	GPA Units
TGPA	**9.33**	**Total**	**18.00**	**18.00**
CGPA	**9.09**	**Total**	**144.00**	

Dean's Honour List

Academic standing effective 2023-05-25: Good academic standing

2023 Spring/Summer Term

Honours BSc in Physics /
BASc in Electrical Engineering
(Co-op)

Course		Description	Grade	Earned	Average	Size
SCI	4901	Co-op Work Term	P	3.00	N/A	N/A

			Earned	GPA Units
TGPA	**0.00**	**Total**	**3.00**	**0.00**
CGPA	**9.09**	**Total**	**147.00**	

Dean's Honour List

Academic standing effective 2023-09-19: Good academic standing

2023 Fall Term

Honours BSc in Physics /
BASc in Electrical Engineering

Course		Description	Grade	Earned	Average	Size
JPN	1901	Introduction to Japanese I	A+	3.00	6.98	60

			Earned	GPA Units
TGPA	**10.00**	**Total**	**3.00**	**3.00**
CGPA	**9.11**	**Total**	**150.00**	

Academic standing effective 2024-01-24: Good academic standing

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Unofficial Transcript

Name: **Justin Tam**
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2024 Winter Term

Honours BSc in Physics /
BASc in Electrical Engineering

Course		Description	Grade	Earned	Average	Size
ELG	4157	Modern Control Engineering	A	3.00	9.17	64
ELG	4177	Digital Signal Processing	A-	3.00	5.55	54
PHY	3355	Statistical Thermodynamics	B+	3.00	5.56	29
PHY	4322	Biological Physics	A	3.00	6.00	10
PHY	4390	Selected Topics in Physics	A+	3.00	6.75	12
		Intro to Separation Methods and Nanofluidcs				

			Earned	GPA Units
TGPA	**8.60**	**Total**	**15.00**	**15.00**
CGPA	**9.06**	**Total**	**165.00**	

Dean's Honour List

Academic standing effective 2024-05-23: Good academic standing

Scholarships and Grants

2017	Admissions Scholarship
	$3000
2018	Merit Scholarship
	(Canadian citizen)
2019	Merit Scholarship
	(Canadian citizen)
2020	Merit Scholarship
	(Canadian citizen)
2023	Merit Scholarship
	(Canadian citizen)

Degree(s) Granted
BASc in Electrical Engineering /
Honours BSc in Physics
(Systems Engineering)
2024-05-21
Summa Cum Laude

Honours BSc in Physics /
BASc in Electrical Engineering
2024-05-21
Summa Cum Laude

End of Transcript

Q   TRANSFER CREDIT

Courses taken outside the University of Ottawa (or experience acquired) before one's admission and recognized as part of the University program are represented by letter « Q » in the grade column of the transcript. These courses are not included, however, in the calculation of grade point averages. Please note that credits awarded for advanced standing refer to the last program at the University of Ottawa.

X   EXEMPTIONS

Exemptions from courses normally required in the program are listed on the transcript with the symbol « X » in the grade column. They do not affect the grade point average. Exemptions must normally be replaced by other courses of equivalent weight.

UNITS

A unit is defined as 12 hours of formal lectures or the equivalent.

SIZE

Number of students enrolled in the course are indicated on the transcript provided that at least six students are enrolled in the course.

DEFINITION OF AVERAGES

CGPA   CUMULATIVE GRADE POINT AVERAGE
TGPA   TERM GRADE POINT AVERAGE

OTHER SYMBOLS

ADD   ADDITIONAL TO REQUIREMENTS (PRIOR TO SEPTEMBER 2016)
DNW   SEE « ABS »
H   HONOURS
HP   EXTRACURRICULAR (PRIOR TO SEPTEMBER 2016)
SCO   INSUFFICIENT ATTENDANCE
N/A   NOT APPLICABLE
AVG   AVERAGE
OEN   ONTARIO EDUCATION NUMBER

LEGEND

GRADES

A+ = 10
A = 9
A- = 8
B+ = 7
B = 6
C+ = 5
C = 4
D+ = 3
D = 2
E = 1
F = 0

SYMBOLS

ABS	=	ABSENT
AEC	=	IN PROGRESS
AUD	=	AUDITOR
CR	=	CREDITED COURSE
CTN	=	CONTINUING
DFR	=	DEFERRED
DR	=	DROP
EIN	=	FAILURE/INCOMPLETE
INC	=	INCOMPLETE
NC	=	NO CREDIT
P	=	PASS
S	=	SATISFACTORY
NS	=	NON SATISFACTORY