



NATIONAL UNIVERSITY of SINGAPORE

OFFICIAL TRANSCRIPT

NAME: BERNARD TEO ZHI YI

STUDENT NO: A0121726M

DATE OF BIRTH:

DATE ISSUED: 04/02/2022

DEGREE CONFERRED: BACHELOR OF COMPUTING (COMPUTER SCIENCE) WITH HONOURS (HIGHEST DISTINCTION)

CUMULATIVE AVERAGE POINT: 5.00

CUMULATIVE MODULAR CREDITS: 169.00

ADMISSION DATE: 07/08/2017

CONFERMENT DATE: 31/01/2022

SPECIALISATION: ALGORITHMS AND COMPUTATION

DEGREE CONFERRED: BACHELOR OF SCIENCE WITH HONOURS (HIGHEST DISTINCTION)

CUMULATIVE AVERAGE POINT: 4.93

CUMULATIVE MODULAR CREDITS: 130.00

ADMISSION DATE: 07/08/2017

CONFERMENT DATE: 31/01/2022

MAJOR: APPLIED MATHEMATICS

COMPLETED A DOUBLE DEGREE PROGRAMME

<u>MODULE</u>	<u>GRADE</u>	<u>CREDITS</u>
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ACADEMIC YEAR 2017/2018 SEMESTER 1

CREDITS RECOGNISED ON ADMISSION (NUS MODULES COMPLETED PRIOR TO CURRENT PROGRAMME):

AWARDED ADVANCED PLACEMENT CREDITS FOR PASSING THE PLACEMENT TEST(S) CONDUCTED BY NUS

MA1101R	LINEAR ALGEBRA I	A+	4.00
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MODULE

ENROLLED IN THE FOLLOWING NUS MODULES:

<u>MODULE</u>	<u>GRADE</u>	<u>CREDITS</u>
CFG1010	ROOTS AND WINGS - PERSONAL AND INTERPERSONAL EFFECTIVENESS 1.0	CS 2.00
CS1231	DISCRETE STRUCTURES	A+ 4.00
CS2030	PROGRAMMING METHODOLOGY II	A+ 4.00
GES1019	MANAGING SINGAPORE'S BUILT ENVIRONMENT	A+ 4.00
MA1521	CALCULUS FOR COMPUTING	A+ 4.00
MA2101	LINEAR ALGEBRA II	A 4.00

BACHELOR OF COMPUTING (COMPUTER SCIENCE)

CUMULATIVE AVERAGE POINT : 5.00

ACADEMIC YEAR 2017/2018 SEMESTER 2

CS2100	COMPUTER ORGANISATION	A+ 4.00
CS2105	INTRODUCTION TO COMPUTER NETWORKS	A+ 4.00
CS3233	COMPETITIVE PROGRAMMING	A+ 4.00
CS3233R	COMPETITIVE PROGRAMMING	A+ 1.00
ES2660	COMMUNICATING IN THE INFORMATION AGE	S 4.00
GER1000	QUANTITATIVE REASONING	A 4.00
IS1103	IS INNOVATIONS IN ORGANISATIONS AND SOCIETY	S 4.00
MA2104	MULTIVARIABLE CALCULUS	A- 4.00

BACHELOR OF COMPUTING (COMPUTER SCIENCE)

CUMULATIVE AVERAGE POINT : 4.96

ACADEMIC YEAR 2018/2019 SEMESTER 1

CP2106	INDEPENDENT SOFTWARE DEVELOPMENT PROJECT (ORBITAL)	CS 4.00
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CS2101	EFFECTIVE COMMUNICATION FOR COMPUTING PROFESSIONALS	S	4.00	ACADEMIC YEAR 2018/2019 SPECIAL TERM(PART 1)			
CS2103T	SOFTWARE ENGINEERING	A+	4.00	CP3200	INTERNSHIP	IP	6.00
CS2106	INTRODUCTION TO OPERATING SYSTEMS	A+	4.00	BACHELOR OF COMPUTING (COMPUTER SCIENCE)			
CS3210	PARALLEL COMPUTING	A	4.00	CUMULATIVE AVERAGE POINT : 5.00			
CS3230	DESIGN AND ANALYSIS OF ALGORITHMS	A+	4.00	BACHELOR OF SCIENCE			
GEQ1000	ASKING QUESTIONS	CS	4.00	CUMULATIVE AVERAGE POINT : 4.95			
MA3218	APPLIED ALGEBRA	A	4.00	ACADEMIC YEAR 2018/2019 SPECIAL TERM(PART 2)			
BACHELOR OF COMPUTING (COMPUTER SCIENCE)				CP3200	INTERNSHIP	CS	6.00
CUMULATIVE AVERAGE POINT : 5.00				BACHELOR OF COMPUTING (COMPUTER SCIENCE)			
DEAN'S LIST				CUMULATIVE AVERAGE POINT : 5.00			
BACHELOR OF SCIENCE				BACHELOR OF SCIENCE			
CUMULATIVE AVERAGE POINT : 4.94				CUMULATIVE AVERAGE POINT : 4.95			
ACADEMIC YEAR 2018/2019 SEMESTER 2							
CP3108B	INDEPENDENT WORK	CS	4.00	ACADEMIC YEAR 2019/2020 SEMESTER 1			
CS3203	SOFTWARE ENGINEERING PROJECT	A+	8.00	CS2104	PROGRAMMING LANGUAGE CONCEPTS	A+	4.00
CS4231	PARALLEL AND DISTRIBUTED ALGORITHMS	A+	4.00	CS4234	OPTIMISATION ALGORITHMS	A+	4.00
MA2108S	MATHEMATICAL ANALYSIS I (S)	A	5.00	CS4261	ALGORITHMIC MECHANISM DESIGN	A+	4.00
BACHELOR OF COMPUTING (COMPUTER SCIENCE)				MA2213	NUMERICAL ANALYSIS I	A+	4.00
CUMULATIVE AVERAGE POINT : 5.00				MA2214	COMBINATORICS AND GRAPHS I	A+	4.00
DEAN'S LIST				MA3110S	MATHEMATICAL ANALYSIS II (S)	A-	5.00
BACHELOR OF SCIENCE				ST2131	PROBABILITY	A	4.00
CUMULATIVE AVERAGE POINT : 4.95				BACHELOR OF COMPUTING (COMPUTER SCIENCE)			
				CUMULATIVE AVERAGE POINT : 5.00			



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DEAN'S LIST			CUMULATIVE AVERAGE POINT : 4.92		
BACHELOR OF SCIENCE			ACADEMIC YEAR 2020/2021 SEMESTER 2		
CUMULATIVE AVERAGE POINT : 4.93					
DEAN'S LIST			CS5330	RANDOMIZED ALGORITHMS	A+ 4.00
ACADEMIC YEAR 2019/2020 SEMESTER 2			DMC1401CS	DESIGN YOUR OWN MODULE	CS 4.00
CS4215	PROGRAMMING LANGUAGE IMPLEMENTATION	A+ 4.00	MA4207	MATHEMATICAL LOGIC	A 4.00
GET1001	SEEING THE WORLD THROUGH MAPS	A+ 4.00	MA4261	CODING AND CRYPTOGRAPHY	A+ 4.00
MA3111	COMPLEX ANALYSIS I	A 4.00	PC1144	INTRODUCTION TO MODERN PHYSICS	A- 4.00
MA3233	COMBINATORICS AND GRAPHS II	A+ 4.00	ST2132	MATHEMATICAL STATISTICS	A 4.00
MA4211	FUNCTIONAL ANALYSIS	A- 4.00	XFC4101	INTEGRATED HONOURS THESIS	A 12.00
BACHELOR OF COMPUTING (COMPUTER SCIENCE)			BACHELOR OF COMPUTING (COMPUTER SCIENCE)		
CUMULATIVE AVERAGE POINT : 5.00			CUMULATIVE AVERAGE POINT : 5.00		
BACHELOR OF SCIENCE			DEAN'S LIST		
CUMULATIVE AVERAGE POINT : 4.92			BACHELOR OF SCIENCE		
ACADEMIC YEAR 2020/2021 SEMESTER 1			CUMULATIVE AVERAGE POINT : 4.92		
CM1131	PHYSICAL CHEMISTRY 1	S 4.00	DEAN'S LIST		
CS4212	COMPILER DESIGN	A+ 4.00	ACADEMIC YEAR 2021/2022 SEMESTER 1		
CS4232	THEORY OF COMPUTATION	A+ 4.00	CS5234	ALGORITHMS AT SCALE	A+ 4.00
MA4270	DATA MODELLING AND COMPUTATION	A+ 4.00	GEH1030	SCIENCE OF MUSIC	A 4.00
XFC4101	INTEGRATED HONOURS THESIS	IP 12.00	MA3205	SET THEORY	A 4.00
BACHELOR OF COMPUTING (COMPUTER SCIENCE)			MA3238	STOCHASTIC PROCESSES I	A+ 4.00
CUMULATIVE AVERAGE POINT : 5.00			MA4235	TOPICS IN GRAPH THEORY	A 4.00
BACHELOR OF SCIENCE			BACHELOR OF COMPUTING (COMPUTER SCIENCE)		
			CUMULATIVE AVERAGE POINT : 5.00		



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MODULE

GRADE

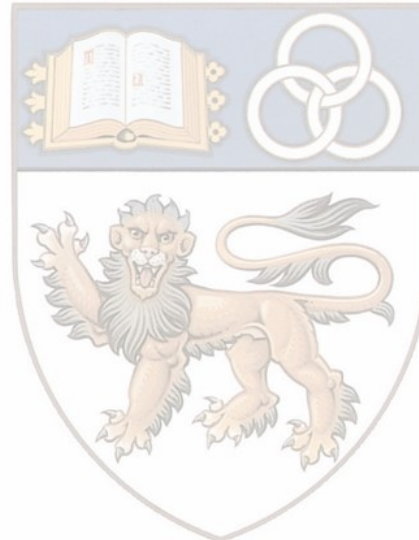
CREDITS

BACHELOR OF SCIENCE

CUMULATIVE AVERAGE POINT : 4.93

DEAN'S LIST

*****END OF TRANSCRIPT*****



NATIONAL UNIVERSITY OF SINGAPORE (NUS)
 Registrar's Office, University Hall (Lee Kong Chian Wing),
 #UHL-04-01, 21 Lower Kent Ridge Road, Singapore 119077
 Telephone : (65) 65162304
 Website : <https://www.nus.edu.sg/registrar>

TRANSCRIPT INFORMATION

Applicable to undergraduate and graduate programmes (unless specified otherwise)

GRADE LEGEND

Grade	Grade Point	Additional Grading Options
A+, A	5.00	S Satisfactory
A-	4.50	U Unsatisfactory
B+	4.00	CS Completed (Satisfactory)
B	3.50	CU Completed (Unsatisfactory)
B-	3.00	IC Incomplete
C+	2.50	IP In Progress
C	2.00	AUD Audit
D+	1.50	EXE Exempted
D	1.00	W Withdrawn
F	0.00	WU Withdrawal from University

SCHOOL OF BUSINESS – MASTER'S DEGREE PROGRAMME MODULES

Grade	Grade Point
DT (Distinction)	5.00
M (Merit)	4.00
Pass	3.00
Fail	0.00

FACULTY OF DENTISTRY / YONG LOO LIN SCHOOL OF MEDICINE – BACHELOR'S DEGREE PROGRAMME MODULES

Grade	Descriptor	Additional Grading Options
A+	Distinction	DT Distinction
A		M Merit
A-		P Pass
B+		IC Incomplete
B		IP In Progress
B-		W Withdrawn
C+		WU Withdrawal from University
C		
F		

SUPPLEMENTARY EXAMINATION AND RE-EXAMINATION

Students who sit for Supplementary Examination or Re-examination (if applicable) are awarded the grade appropriate to the marks they obtain.

MEDIUM OF INSTRUCTION

The medium of instruction used in the University is English, unless specified otherwise.

CUMULATIVE AVERAGE POINT (CAP)

The Cumulative Average Point (CAP) was introduced for students admitted from the Academic Year (AY) 1998/1999 onwards to track the progress of students under the Modular System. It is the weighted average grade point of all modules taken by the student.

MODULAR CREDIT (MC)

A modular credit (MC) is a unit of the effort, stated in terms of time, expected of a typical student in managing his/her workload. 1 MC is equivalent to 2.5 hours of study and preparation per week. Thus, a 4-MC module would require 10 hours of work a week, including lectures, tutorials, laboratory sessions, assignments, and independent or group study, over 13 Instructional Weeks in a semester.

GRADE-FREE SCHEME (GFS)

The Grade-free Scheme (GFS), in the form of 32 MCs of Satisfactory/Unsatisfactory (S/U) option, was introduced for undergraduate students admitted from AY2014/2015 onwards, to provide a supportive and enabling environment for them to make a successful transition into the academic and social aspects of university life.

It was enhanced from a grade-free first semester to a grade-free first year for undergraduate students admitted from AY2016/2017 onwards.

At the end of a semester, students may choose to retain the letter grade or to exercise the S/U option on a module, in which case the letter grade will not be shown on the transcript nor computed towards the CAP. An 'S' grade is assigned if students receive a C grade or above while a 'U' grade is assigned if the grade obtained is D+, D or F. Students will receive credits towards the degree only if they attain an 'S' grade.

LEAVE OF ABSENCE

Only leave of absence of one semester or longer is recorded in the transcript.

DEGREE CLASSIFICATION

The criteria for degree classification applicable to students admitted from AY2012/2013 onwards are as follows:

Honours Degree Classification ⁽ⁱ⁾	Criteria
Honours (Highest Distinction)	CAP 4.50 and above ⁽ⁱⁱ⁾
Honours (Distinction)	CAP 4.00 – 4.49
Honours (Merit)	CAP 3.50 – 3.99
Honours	CAP 3.00 – 3.49
Pass	CAP 2.00 – 2.99
Bachelor's Degree Classification ⁽ⁱⁱⁱ⁾	Criteria
Pass with Merit	CAP 3.00 and above
Pass	CAP 2.00 – 2.99

(i) This refers to 160-MC degree programmes.

(ii) Particular Faculties/Schools may stipulate other requirements.

(iii) This refers to 120-MC degree programmes.

This transcript shows the latest information. For information on earlier grade legends, please visit:
<https://www.nus.edu.sg/registrar/student-records/transcripts/official-transcripts> .

FACULTY OF LAW – DEGREE CLASSIFICATION

(a) The criteria for degree classification applicable to students conferred their Bachelor's of Laws (LLB) degrees from 30 June 2016 are as follows:

Degree Classification	Criteria
First Class Honours*	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of A- or better, <u>or</u> finished in the top 10% of the graduating class.
Second Class (Upper Division) Honours*	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of B or better, and do not qualify for First Class Honours.
Second Class (Lower Division) Honours	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of C or better, and do not qualify either for First Class or Second Class (Upper Division) Honours.
Third Class Honours	Completed the number of credits required for a LLB (Honours) degree but do not qualify for First Class, Second Class (Upper Division) or Second Class (Lower Division) Honours.

*Note: A student will not be eligible for First Class or Second Class (Upper Division) Honours if:

a) the student has failed more than 12 credits of modules at NUS (or while on an approved exchange programme); or

b) the student has taken more than 9 semesters to complete the 4-year LLB programme or 7 semesters to complete the 3-year Graduate LLB programme (excluding periods where the student has been granted a leave of absence).

(b) The criteria for degree classification applicable to students conferred their Juris Doctor (J.D.) degrees are as follows:

Degree Classification	Criteria
JD (Highest Distinction)	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of A- or better.
JD (Distinction)	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of B or better..
JD (Merit)	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of C or better.
JD	Completed the number of credits required for a JD degree but do not qualify for HD (Highest Distinction), HD (Distinction) or JD (Merit).

CHECK FOR AUTHENTICITY:

This digital transcript has been issued by NUS and its authenticity is guaranteed only when it can be successfully accessed through the OpenCerts portal (opencerts.io) or nus.edu/e-documents.