# TRANSCRIPT OF ACADEMIC RECORD

**THE UNIVERSITY OF BRITISH COLUMBIA**

| | |
|---|---|
| **Surname:** Lim | **Given Names:** Chong Siang |
| **Student Number:** 45015138 | **Date of Birth:** August 19 |
| **Date Printed:** February 13, 2017 | |

**Issued To:**
Lim, Chong Siang
1873 Hillside Ave
COQUITLAM, BC
Canada      V3K6E3

**REGISTRAR**

Note: Transcript valid only if bearing the registrar's signature. This transcript is printed on secure paper on a blue background.

## UBC Credentials

None to date

## Transfer Credits

University of Malaya 2011 - 2012

## Winter Session 2013 - 2014

### Bachelor of Applied Science (UBC Vancouver) - Year 1

| Term | Course | | Credit Value | Course Title | % Grade | Letter Grade | Credit Rec'd | Stdg | Withdraw Date | Complete Date | Class Size | Avg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | APSC | 122 | (0.0) | Introduction to Engineering | | | | P | | | | |
| 1 | APSC | 160 | (3.0) | Introduction to Computation in Engineering Design | 94 | A+ | 3.0 | | | | 182 | 71 |
| 1 | BIOL | 112 | (3.0) | Biology of the Cell | 94 | A+ | 3.0 | | | | 300 | 76 |
| 1 | CHBE | 241 | (3.0) | MATRL ENGY BALNC | 90 | A+ | 3.0 | | | | 148 | 66 |
| 1 | CHEM | 260 | (3.0) | Organic Chemistry for Engineers | 87 | A | 3.0 | | | | 90 | 63 |
| 1 | HIST | 104 | (3.0) | Topics in World History | 77 | B+ | 3.0 | | | | 73 | 71 |
| 1-2 | CHBE | 262 | (4.0) | Chemical Engineering and Applied Chemistry Laboratory | 85 | A | 4.0 | | | | 90 | 78 |
| 2 | CHBE | 244 | (3.0) | Chemical and Biological Engineering Thermodynamics I | 100 | A+ | 3.0 | | | | 178 | 71 |
| 2 | CHBE | 251 | (3.0) | Transport Phenomena I | 90 | A+ | 3.0 | | | | 120 | 70 |
| 2 | CHEM | 250 | (2.0) | Inorganic Chemistry | 90 | A+ | 2.0 | | | | 87 | 65 |
| 2 | ENGL | 112 | (3.0) | Strategies for University Writing | 85 | A | 3.0 | | | | 33 | 76 |

Dean's Honour List

## Summer Session 2014

### Bachelor of Applied Science (UBC Vancouver) - Year 1

| Term | Course | | Credit Value | Course Title | % Grade | Letter Grade | Credit Rec'd | Stdg | Withdraw Date | Complete Date | Class Size | Avg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PSYC | 102 | (3.0) | Introduction to Developmental, Social, Personality, and Clinical Psychology | 82 | A- | 3.0 | | | | 209 | 70 |

## Winter Session 2014 - 2015

### Bachelor of Applied Science (UBC Vancouver) - Year 3

| Term | Course | | Credit Value | Course Title | % Grade | Letter Grade | Credit Rec'd | Stdg | Withdraw Date | Complete Date | Class Size | Avg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | CHBE | 345 | (4.0) | Unit Operations II | 86 | A | 4.0 | | | | 103 | 73 |
| 2 | CHBE | 356 | (3.0) | Process Dynamics and Control | 100 | A+ | 3.0 | | | | 117 | 74 |
| 2 | CHBE | 357 | (3.0) | Interfacial Phenomena | 87 | A | 3.0 | | | | 42 | 75 |
| 2 | CHBE | 366 | (2.0) | Process and Environmental Engineering Laboratory | 90 | A+ | 2.0 | | | | 63 | 82 |
| 2 | CHBE | 376 | (3.0) | Computer Flowsheeting and Fluid Properties Estimation | 94 | A+ | 3.0 | | | | 89 | 80 |
| 2 | CHBE | 381 | (3.0) | Bioprocess Engineering I | 92 | A+ | 3.0 | | | | 40 | 75 |

## Summer Session 2015

### Bachelor of Applied Science (UBC Vancouver) - Year 3

| Term | Course | | Credit Value | Course Title | % Grade | Letter Grade | Credit Rec'd | Stdg | Withdraw Date | Complete Date | Class Size | Avg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | STAT | 251 | (3.0) | Elementary Statistics | 91 | A+ | 3.0 | | | | 120 | 72 |
| 2 | CPSC | 210 | (4.0) | Software Construction | 90 | A+ | 4.0 | | | | 159 | 75 |

## Winter Session 2015 - 2016

# TRANSCRIPT OF
# ACADEMIC RECORD

**UBC THE UNIVERSITY OF BRITISH COLUMBIA**

**ENROLMENT SERVICES**
2016 - 1874 East Mall
Vancouver, BC Canada V6T 1Z1

| **Surname:** | **Given Names:** | **Student Number:** | **Date of Birth:** |
|---|---|---|---|
| Lim | Chong Siang | 45015138 | August 19 |

**Date Printed:**
February 13, 2017

## Winter Session 2015 - 2016 continued...

### Bachelor of Applied Science (UBC Vancouver) - Year 3

| Term | Course | Credit Value | Course Title | % Grade | Letter Grade | Credit Rec'd | Stdg | Withdraw Date | Complete Date | Class Size | Avg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CHBE 344 | (3.0) | Unit Operations I | 81 | A- | 3.0 | | | | 140 | 76 |
| 1 | CHBE 362 | (2.0) | Process and Environmental Engineering Laboratory | 84 | A- | 2.0 | | | | 51 | 79 |
| 1 | CHBE 373 | (3.0) | Water Pollution Control | 92 | A+ | 3.0 | | | | 139 | 76 |
| 1 | CHBE 455 | (3.0) | Kinetics and Reactor Design | 91 | A+ | 3.0 | | | | 91 | 77 |
| 1 | CHBE 483 | (3.0) | Energy Engineering | 86 | A | 3.0 | | | | 56 | 78 |
| 1 | CPSC 322 | (3.0) | Introduction to Artificial Intelligence | 87 | A | 3.0 | | | | 142 | 74 |
| 1 | MATH 200 | (3.0) | Calculus III | 76 | B+ | 3.0 | | | | 131 | 66 |
| 2 | APSC 450 | (2.0) | Professional Engineering Practice | 80 | A- | 2.0 | | | | 252 | 81 |
| 2 | CHBE 484 | (3.0) | Green Engineering Principles and Applications for Process Industries | 84 | A- | 3.0 | | | | 72 | 76 |
| 2 | CPSC 303 | (3.0) | Numerical Approximation and Discretization | 85 | A | 3.0 | | | | 66 | 73 |
| 2 | CPSC 314 | (3.0) | Computer Graphics | 93 | A+ | 3.0 | | | | 83 | 76 |
| 2 | CPSC 320 | (3.0) | Intermediate Algorithm Design and Analysis | 83 | A- | 3.0 | | | | 156 | 73 |
| 2 | CPSC 425 | (3.0) | Computer Vision | 81 | A- | 3.0 | | | | 116 | 73 |

Dean's Honour List

## Summer Session 2016

### Bachelor of Applied Science (UBC Vancouver) - Year 3

| Term | Course | Credit Value | Course Title | % Grade | Letter Grade | Credit Rec'd | Stdg | Withdraw Date | Complete Date | Class Size | Avg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | CIVL 200 | (3.0) | Engineering and Sustainable Development | 87 | A | 3.0 | | | 2016/06/17 | 214 | 77 |

## Winter Session 2016 - 2017

### Bachelor of Applied Science (UBC Vancouver) - Year 4

| Term | Course | Credit Value | Course Title | % Grade | Letter Grade | Credit Rec'd | Stdg | Withdraw Date | Complete Date | Class Size | Avg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CHBE 456 | (3.0) | HET CAT ADV REAC | 85 | A | 3.0 | | | | 94 | 74 |
| 1 | CHBE 457 | (3.0) | Process Synthesis | 90 | A+ | 3.0 | | | | 100 | 80 |
| 1 | CHBE 474 | (3.0) | Process Control Engineering | 81 | A- | 3.0 | | | | 73 | 75 |
| 1-2 | CHBE 454 | (6.0) | Chemical Process and Product Design | | | | CIP | | | | |
| 1-2 | CHBE 464 | (4.0) | Chemical and Biological Engineering Laboratory | | | | CIP | | | | |
| 2 | CHBE 459 | (3.0) | Chemical and Biological Engineering Economics | | | | CIP | | | | |
| 2 | CPSC 317 | (3.0) | Internet Computing | | | | CIP | | | | |
| 2 | CPSC 340 | (3.0) | Machine Learning and Data Mining | | | | CIP | | | | |
| 2 | CPSC 420 | (3.0) | Advanced Algorithms Design and Analysis | | | | CIP | | | | |

**UBC Academic Awards**
*Graham Somerville Undergrad Scholarship in Chemical and Biological Engineering*
*Ying Ying Chan Zee Scholarship*

***************************************************** End of Record *****************************************************

# THE UNIVERSITY OF BRITISH COLUMBIA

The University of British Columbia was established by an Act of the Provincial Legislature in 1908 and opened in 1915. The University is a member of the Association of Universities and Colleges of Canada. UBC Okanagan was established as a campus of The University of British Columbia in April 2005. UBC Okanagan assumed responsibility for several Okanagan University College degree programs and all continuing students in those programs from July 1, 2005. Okanagan University College ceased its educational operations as of August 31, 2005.

## EXPLANATION OF STUDENT ACADEMIC RECORD

### Academic terms

The University operates on a year system. The academic year is divided into two sessions. Winter Session is divided into two terms, Term 1 from September to December and Term 2 from January to April. Summer Session starts in May and ends in August and is comprised of Term 1 (May and June) and Term 2 (July and August). Courses may span a single term (Term 1 or 2) or a full session (Term 1 and 2) for either session.

Distance Education and Technology (DET) courses begin on one of two starting dates during Winter Session, designated in the Term column as A,B,C or D. During the Summer Session, DET courses have only one starting date and are designated with an A or B in the Term column.

### Academic Awards

All academic awards (Fellowships, Scholarships, Prizes and Medals) administered by the University and issued subsequent to April 1975, are noted on the transcript of academic record.

### Course Numbering

Courses numbered 100 to 199 are primarily for first-year students. Similarly, courses numbered 200 to 299 are primarily for second-year students, courses numbered 300 to 399 are for third-year students, and courses numbered 400 to 499 are for fourth-year students. Courses numbered 500 to 699 are considered graduate-level. Courses numbered 700 and above are clinical courses.

### Class Size and Class Average Grades

Effective February 1999, class size and class average grades are shown for most courses. In courses with more than one section, the class size and average are reported for the student's section.

### Grading and Course Weight

In May of 1991, The University of British Columbia adopted a percentage grading and credit weighting system. Course weight is expressed in "credits". In general 1 credit represents 1 hour of instruction or 2 to 3 hours of laboratory work per week throughout one term of the Winter Session. A 1-unit course became a 2-credit course. Courses are normally graded on a percentage basis with a corresponding letter grade derived as shown.

### Degree Standings and Averages

Standings are expressed as Class 1 (80% or over), Class 2 (65 to 79%), Class P (50 to 64%) or Honours; not used by all faculties. Effective Winter Session 1996/97, the calculation of the standing and average is based on the average percentage grade of all upper-level (300 or higher) courses used to satisfy the degree requirements (excluding courses graded as Pass/Fail); not used by all faculties. This is not applicable to programs in the Faculty of Graduate Studies.

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## Undergraduate Grading Scale

| Percent | Letter Grade | Percent | Letter Grade |
|---|---|---|---|
| 90–100 | A+ | 64–67* | C+ |
| 85–89 | A | 60–63* | C |
| 80–84 | A- | 55–59* | C- |
| 76–79 | B+ | 50–54* | D |
| 72–75 | B | 0–49 | F* (Fail) |
| 68–71 | B- | | |

## Graduate Grading Scale

| Masters Grading Scale | | Doctoral Grading Scale | |
|---|---|---|---|
| Percent | Letter Grade | Percent | Letter Grade |
| 90–100 | A+ | 90–100 | A+ |
| 85–89 | A | 85–89 | A |
| 80–84 | A- | 80–84 | A- |
| 76–79 | B+ | 76–79 | B+ |
| 72–75 | B | 72–75 | B |
| 68–71 | B- | 68–71 | B- |
| 64–67 | C+ | 0–67 | F* (Fail) |
| 60–63 | C | | |
| 0–59 | F* (Fail) | | |

*Some programs may require higher passing grades; failing grades are assigned a letter grade of "F".

### The following standings also apply:

AEG — aegrotat standing: indicates that the student is granted credit although unable to complete because of illness. A letter grade will also be recorded and that grade converted to a minimum percentage grade for that category for the calculation of averages.

AUD — audit

CH — challenge credit

CIP — course in progress

CR/D/F — (introduced in 2010/11) excluded from calculation in all averages; granted where a grade is assigned by an instructor but not included on the student's official transcript; grade is converted to CR, D or F standing. CR– credit, satisfactory completion of the requirements of the subject; D– marginal pass (50% – 54%), and not available for those programs or courses that define a passing grade as higher than 50%; F– fail

EX — exempt

J — see "A" standing as defined in grading scale prior to May 1991

P or F — no grade assigned, excluded from calculation in all averages; P–pass, requirements of subject completed satisfactorily, credit granted where applicable; F– fail

H — (introduced 1999/00 session) no grade assigned, excluded from calculation in all averages; H –honours, exceeds course requirements, credit granted where applicable

PLA — credit assigned based on prior learning in subject area.

S — see "S" standing as defined in grading scale prior to May 1991

SD — standing deferred; excluded from calculation in all averages

T — thesis in progress; graduating essay not submitted; course continuing

W — official withdrawal

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## PRIOR TO MAY 1991

### Course Weight and Hours

Course weight was expressed in "units". In general, 1 unit represented 1 lecture hour per week (or a laboratory period of approximately 2 to 3 hours each week) throughout both terms of the Winter Session. Some faculties did not assign a unit value to some courses. The maximum mark possible (max) indicated the weight of a course. A 3-unit course (3 hours of lectures per week throughout the Winter Session) was graded out of a total of 150 marks. This course approximated a 6 semester-hour or a 9 quarter-hour course.

### Grading classifications

Class 1 — 80% or better (i.e., 120 or more on a maximum of 150)

Class 2 — 65%–79% (i.e., 98 to 119 out of 150)

Class P — 50%–64% (i.e., 75 to 97 out of 150) except Dentistry, Graduate Studies, Librarianship, Medicine, Nursing and Rehabilitation Medicine where the range is 60% – 64%

Class F — failure, no credit granted: below 50% except Dentistry, Graduate Studies, Librarianship, Medicine, Nursing and Rehabilitation Medicine: below 60%

AEG — aegrotat standing: granted to a student who has been successful in studies but unable to write the final exam because of illness or other extenuating circumstances

AUD — audit

C — requirements of subject completed satisfactorily; no grade assigned; unit value granted where applicable; excluded from calculation in all averages

### The following standings also apply:

A — adjudicated pass: indicates that credit is granted and the course need not be repeated although it may not normally qualify as a prerequisite for further work. The grade assigned by the instructor is used in calculation of averages.

D — standing deferred; excluded from calculation in all averages

E — exempt

N — no credit granted; did not write examination or otherwise complete requirements of the course (discontinued beginning 1985–86 session)

S — supplemental privilege granted; failure; no credit granted; supplementals are not permitted in all faculties

T — thesis in progress; graduating essay not submitted; course continuing

W — (introduced in 1988/89 session) official withdrawal

X — time expired; student did not complete course

### Year Standing

In most Faculties each "year" was graded as Class 1, Class 2, Class P, or with Honours; not used by all faculties. In some faculties the calculation of standing was based on the studies of the final two years, in others on the final year only.

### Degree Standing

Expressed as Class 1, Class 2, Class P, or with Honours; not used by all faculties.

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