



The University of Western Ontario

Official Document Cover Page

The University of Western Ontario official documents are issued directly through MyCreds™ which is owned by the Association of Registrars of the Universities and Colleges of Canada (ARUCC) and powered by Digitary, a trusted international verified digital credential platform. MyCreds™ ensures document authenticity. When transcripts, credentials, and any other documents are issued through MyCreds™, they are verifiable, secure, and include a cryptographic signature.

If you have received notification of this document and a link to access it through MyCreds™, you are viewing a certified official document that you can trust. A document routed to you as an attachment from an individual personal email is not official and may not reflect the most recent version.

When viewed in PDF format in Adobe 9.0 or later, this document has a number of security features described below. These security features do not apply to a printed copy. This document is shared as a single-use transaction between the learner and the recipient and downloads are for record-keeping purposes only. Forwarding or reproducing this document will render the document not valid.

SECURITY INFORMATION

To verify the authenticity of the digital document, make sure you are accessing it online via a link to the document on MyCreds™. The link will start with learner.mycreds.ca.

When viewed in PDF format in Adobe Reader 9.0 (or later), the digital signature of the document should be interpreted as follows:



The blue-ribbon symbol signifies that the contents of the document have not been altered after it was downloaded. It does not signify its currency (it may have been revoked or replaced by the institution or organization with a more up-to-date document). If the document does not display a valid certification and signature message, reject this document immediately.



This symbol with a red cross signifies that the issued document is invalid. An invalid digital certificate display means either the digital signature is not authentic, or the document has been altered. A document with an invalid digital signature display should be rejected.



This symbol signifies that the Author is Unknown. Author Unknown can have two possible meanings: The document is a self-signed document or has been issued by an unknown or untrusted authority and, therefore, has not been trusted. If you receive this message, make sure you are properly connected to the internet. If you have a connection and you still cannot validate the digital signature online, reject this document.



This symbol indicates that Adobe needs to validate the signatures. You will need to follow the instructions to validate the signature. Should the signature validate successfully, you will be presented with the blue-ribbon symbol above. If it cannot validate the signature, the red cross will be presented.

This document is available for viewing until the expiry date set by the Learner. If your access has expired, you will need to contact the Learner to request a new share of the document. MyCreds™ cannot reissue documents.

For details about The University of Western Ontario grading scales, academic standing and continuance policies, please refer to The University of Western Ontario legend.

For more information regarding electronic documents, see Recipient FAQs (employers, institutions, security and legal validity, verifying documents) mycreds.ca/verifiers/#verify-faq.



L. Hatif
REGISTRAR

The University of Western Ontario

OFFICE OF THE REGISTRAR
LONDON, ONTARIO, CANADA N6A 3K7

Student ID: 250964533
Student : Dunlop, Spencer James Edward
Birthdate : May-12
OEN : 822823464

Send To: SPENCER JAMES EDWARD DUNLOP

ON
CANADA



Page: 1...

Degrees Awarded

Degree: Bachelor of Engineering Science
Mechatronic Systems Engineering with Professional Internship
Awarded: 2022-Jun

Scholarships and Awards

[Note: Non-graduate scholarships are listed from May 1, 2000.
Graduate scholarships are listed from September 1, 2008.]

2017 The Western Scholarship of Excellence

Academic Program History

Program: Faculty of Engineering
Plan: Bachelor of Engineering Science
Mechatronic Systems Engineering with Professional Internship
Status: Completed Program

Basis of Admission

W 2017 Ontario Secondary School Diploma 2017

Academic Record

| Course | Description | Unts | Grd | Siz | Avg |
|----------|--------------------------------------|------|-----|-----|-----|
| APPLMATH | 1411A LNR ALG NUM ANALYSIS FOR ENG | 0.5 | 074 | 257 | 73 |
| APPLMATH | 1413 APP MATH FOR ENGRS I | 1.0 | 076 | 104 | 65 |
| BUSINESS | 1299E BUSINESS FOR ENGINEERS | 1.0 | 084 | 63 | 67 |
| CHEM | 1302A DISCOVERING CHEMICAL ENERGETIC | 0.5 | 072 | 253 | 66 |
| ENGSCI | 1021B PROPERTIES OF MATERIALS | 0.5 | 090 | 256 | 75 |
| ENGSCI | 1022Y ENGINEERING STATICS | 0.5 | 086 | 216 | 69 |
| ENGSCI | 1036B PRGRMMNG FUNDAMNTLS FOR ENGNRS | 0.5 | 091 | 117 | 74 |
| ENGSCI | 1050 INTRO ENG DESIGN & INNOVTN STU | 1.0 | 090 | 133 | 78 |
| PHYSICS | 1401A PHYSICS FOR ENG STDNTS I | 0.5 | 083 | 201 | 81 |
| PHYSICS | 1402B PHYSICS FOR ENG STDNTS II | 0.5 | 078 | 197 | 68 |

Dean's Honor List

2018 Fall/Winter

| Course | Description | Unts | Grd | Siz | Avg |
|----------|--------------------------------------|------|-----|-----|-----|
| APPLMATH | 2270A APPLIED MATH FOR ENGINEER II | 0.5 | 076 | 241 | 74 |
| APPLMATH | 2276B APP MATH ELEC & MEC ENG III | 0.5 | 062 | 187 | 60 |
| COMPSCI | 1037A COMP SCI FUNDAMENTALS II | 0.5 | 090 | 261 | 79 |
| ECE | 2205A ELECTRIC CIRCUITS | 0.5 | 077 | 174 | 62 |
| MSE | 2200Q ENGINEERING SHOP SAFETY TR | 0.0 | PAS | | |
| MSE | 2201A INTRO TO ELECTRICAL INSTRUMENT | 0.5 | 088 | 63 | 91 |
| MSE | 2202B INTRO TO MECHATRONIC DESIGN | 0.5 | 087 | 67 | 76 |
| MSE | 2212A MECHANICS OF MATERIALS | 0.5 | 087 | 65 | 78 |
| MSE | 2213B ENGINEERING DYNAMICS | 0.5 | 078 | 70 | 77 |
| MSE | 2214A THERMODYNAMICS | 0.5 | 084 | 82 | 73 |
| MSE | 2233B CIRCUITS AND SYSTEMS | 0.5 | 091 | 79 | 80 |
| MSE | 2273B FLUID MECHANICS & HEAT TRANSFR | 0.5 | 081 | 64 | 73 |
| WRITING | 2130G BETTER COMMUNICATION BRIDGES | 0.5 | 077 | 100 | 76 |

Dean's Honor List

2019 Fall/Winter

| Course | Description | Unts | Grd | Siz | Avg |
|----------|--------------------------------------|------|-----|-----|-----|
| APPLMATH | 3415A ADV APPL MATH ELEC ENGINEERING | 0.5 | 093 | 106 | 83 |
| ECE | 2277A DIGITAL LOGIC SYSTEMS | 0.5 | 078 | 196 | 70 |
| ECE | 3330A CONTROL SYSTEMS | 0.5 | 088 | 160 | 74 |
| ECE | 3331B INTRO TO SIGNAL PROCESSING | 0.5 | 098 | 154 | 89 |
| ECE | 3375B MICROPROCESSORS & MICROCOMP | 0.5 | 092 | 168 | 88 |
| GEOGRAPH | 2041B GEOGRAPHY OF CHINA | 0.5 | 084 | 128 | 76 |
| MSE | 3301A MATERIALS SELECTION & MNFT | 0.5 | 086 | 80 | 78 |
| MSE | 3302B SENSORS & ACTUATORS | 0.5 | 093 | 75 | 93 |
| MSE | 3310A ELECTRIC MOTORS AND DRIVES | 0.5 | 085 | 74 | 81 |
| MSE | 3360B FINITE ELEMENT METHODS FOR MSE | 0.5 | 091 | 77 | 87 |
| MSE | 3380B MECH COMP DSGN MECHATRONIC SYS | 0.5 | 092 | 79 | 86 |
| MSE | 3381A KINETICS & DYNAMICS OF MACHINE | 0.5 | 088 | 74 | 77 |

Dean's Honour List

2020 Fall/Winter

| Course | Description | Unts | Grd | Siz | Avg |
|--------|-----------------------------|------|-----|-----|-----|
| ENGSCI | 3352 ENGINEERING INTERNSHIP | 3.0 | SAT | | |
| ENGSCI | 3353 ENGINEERING INTERNSHIP | 3.0 | SAT | | |

The University of Western Ontario

OFFICE OF THE REGISTRAR
LONDON, ONTARIO, CANADA N6A 3K7

Student ID: 250964533
Student : Dunlop, Spencer James Edward
Birthdate : May-12
OEN : 822823464



Page: 2

| - - 2021 Summer - - | | | | | |
|---|--------------------------------|------|-----|-----|-----|
| Course | Description | Unts | Grd | Siz | Avg |
| ENGSCI 3354 | ENGINEERING INTERNSHIP | 3.0 | SAT | | |
| - - 2021 Fall/Winter - - | | | | | |
| Course | Description | Unts | Grd | Siz | Avg |
| ANTHRO 1026G | INTRO BIOL ANTHRO & ARCHA | 0.5 | 088 | 150 | 79 |
| ECE 4445A | INTRO TO DIGITL IMAGE PROCSSNG | 0.5 | 098 | 84 | 87 |
| ECE 4460B | REAL-TIME & EMBEDDED SYSTEMS | 0.5 | 089 | 114 | 85 |
| ECE 4469B | APPLIED CONTROL SYSTEMS | 0.5 | 088 | 75 | 75 |
| ELI 4110F | ENG ETHICS SUST DEVEL & LAW | 0.5 | 087 | 45 | 82 |
| MME 4459B | ADV CAE: MANUFACTURING TECH | 0.5 | 085 | 40 | 83 |
| MME 4480A | ADV CAE: REVERSE ENGINEERING | 0.5 | 096 | 50 | 83 |
| MSE 4401A | ROBOTIC MANIPULATORS | 0.5 | 076 | 63 | 75 |
| MSE 4499 | MECHATRONIC DESIGN PROJECT | 1.0 | 094 | 59 | 83 |
| PHILOSOP 1230B | REASONING & CRITICAL THINKING | 0.5 | 085 | 886 | 80 |
| STATS 2141A | APPL PROB & STATS FOR ENGINEER | 0.5 | 085 | 339 | 77 |
| Program Completed, Graduation Spring Convocation with Distinction | | | | | |

Dean's Honor List

End of Official Transcript

THE UNIVERSITY OF WESTERN ONTARIO

AFFILIATED COLLEGES: BRESCIA UNIVERSITY COLLEGE, HURON UNIVERSITY COLLEGE, KING'S UNIVERSITY COLLEGE

The University is a member of the Association of Universities and Colleges of Canada, the Association of Universities of the Commonwealth, and the International Association of Universities.

www.uwo.ca

LANGUAGE OF THE UNIVERSITY – Aside from language courses, all courses at The University of Western Ontario are taught in English.

COURSE UNITS & EQUIVALENCIES

A full course (1.0 units) normally consists of three lecture hours each week for the full year, September to April. Each full course is equivalent to six semester hours or nine quarter hours. Courses with suffixes A, B, F, G, Y, Z denote 0.5 units. Courses with 0.5 units denote half courses. Courses with 0.25 units denote quarter courses. Courses with 1.0 units denote full courses. A full course load consists of 3.5 or more courses.

GRADE POINT AVERAGE – The University of Western Ontario does not issue a grade point average for students.

COURSE TITLES appear on transcripts for all courses recorded after September 1984.

COURSE NUMBERS - Effective May 01, 2008 course numbers are 4 digits in length.

UNDERGRADUATE SCHOLARSHIPS, AWARDS, PRIZES, FELLOWSHIPS AND MEDALS awarded by the University to the student during the student's academic career at the University are available from May 01, 2000.

UNDERGRADUATE CLASS AVERAGES and SIZES - Available from September 01, 2000.

COURSE NUMBER SUFFIXES

| | | | |
|---|---|-----------|--|
| A | 0.5 course in first term | Q | 0.25 course in the first half of first term |
| B | 0.5 course in second term | R | 0.25 course in the second half of first term |
| C | January courses in the Faculty of Law (4.0 credit weight) | S | 0.25 course in the first half of second term |
| D | Feb/March/April (FMA) courses in the Faculty of Law | T | 0.25 course in the second half of second term |
| E | 1.0 essay course | U | 0.25 course in other than a regular session |
| F | 0.5 essay course in first term | V | 0.375 course offered by the Faculty of Education |
| G | 0.5 essay course in second term | W | 1.0 accelerated course in first term |
| H | 1.0 accelerated course (8 weeks) in the School of Nursing | X | 1.0 accelerated course in second term |
| J | 1.0 accelerated course (6 weeks) in the School of Nursing | Y | 0.5 course in other than a regular session |
| K | 0.75 course at the School of Business | Z | 0.5 essay course in other than a regular session |
| L | 0.5 graduate course offered in summer term (May-August) | No Suffix | 1.0 course not designated as an essay course |

ACADEMIC TERMS

Undergraduate, Education, Professional, Preliminary Year Careers

Fall/Winter Term: September to April

Summer Term: May to August

Note: the Summer Term is comprised of several sessions within the term: Intersession, Summer Evening, and Summer Day, etc.

Graduate Studies

Winter Term: January to April

Summer Term: May to August

Fall Term: September to December

MBA Spring Term: March to March

EXPLANATION OF ABBREVIATIONS

| | | | | | |
|-----|--------------------|-----|---------------------------|------|--|
| AEG | Aegrotat | FTW | Failed Term Work* | SAT | Satisfactory* |
| AUD | Audit* | GRD | Grade | SIZ | Class Size* |
| AVG | Class Average | INC | Incomplete* | SPC | Special Exam* |
| COM | Complete* | IPR | In Progress* | SRP | Supplemental Examination/Remedial Work passed* |
| CR | Credit* | NC | No Credit | SUP | Supplemental Exam* |
| DEF | Deferred Exam* | NGR | No Grade Recorded* | UNTS | Units* |
| DNW | Did Not Write* | OEN | Ontario Education Number* | WDN | Withdrew (no penalty)* |
| DRP | Dropped (penalty)* | PAS | Pass* | | |
| FAI | Fail* | PWD | Passed With Distinction* | | |

*No numeric mark recorded

GRADING SCALES (For historical grading scales, visit <http://registrar.uwo.ca/transcriptscale>)

Undergraduate Faculties and Affiliated University Colleges

Effective September 2000

| | | |
|----|-----------|---|
| A+ | 90 – 100% | One could scarcely expect better from a student at this level |
| A | 80 – 89% | Superior work which is clearly above average |
| B | 70 – 79% | Good work, meeting all requirements, and eminently satisfactory |
| C | 60 – 69% | Competent work, meeting requirements |
| D | 50 – 59% | Fair work, minimally acceptable |
| F | below 50 | Fail |

In some Faculties, failing grades are distinguished as follows: E 40–49% Fail with supplemental examination privileges.

Note: Grades assigned for courses taken on a letter of permission at another institution follow the grading scale of The University of Western Ontario.

Effective May 01, 2010, grades for undergraduate courses taken on exchange will be recorded as PAS+ (pass with distinction), PAS or FAI.

Faculty of Education

Effective September 2020

PAS Equivalent of 76%

FAI

The B.Ed. program is a two-year program consisting of 9.0 credits, 2.0 of which are practicum/in field components. In the course component, one credit is normally equivalent to 72 hours of classroom contact time. The practicum/in field components include 29-30 weeks of block practice teaching plus 7 weeks of alternative field experience. Prior to 2015, the one-year program was comprised of 6.0 credits, with practicum comprising 10-12 weeks. Enquiries concerning practicum days, or program requirements in place prior to September 1979, should be directed to the Faculty of Education. Before September 1999, additional qualifications half course weights are 2.0, and full course weights are 4.0. Effective September 1999, half course weights are 0.5, and full course weights are 1.0.

The School of Graduate and Postdoctoral Studies

Effective September 2002 **Note:** Failure to achieve 60% (C) or higher in any undergraduate course taken as credit towards a graduate degree is interpreted as a failure.

| | | |
|---|-----------|---|
| A | 80 – 100% | |
| B | 70 – 79% | Effective November 01, 1998 Thesis courses are replaced by non-course milestones. |
| C | 60 – 69% | |
| F | 00 – 59% | |

Effective Fall 1998 the appearance of “Continuous Graduate Enrollment” on the transcript indicates that all program requirements have not yet been met (e.g. if the student is pursuing research towards a thesis at this time). If the student is in a program requiring completion of a thesis, “thesis completed” will appear on the transcript following successful completion of the thesis requirements.

Schulich School of Medicine & Dentistry

Dentistry (DDS)

Effective September 1987

| | | | |
|---|-----------|---|----------|
| A | 80 – 100% | C | 60 – 69% |
| B | 70 – 79% | F | 00 – 59% |

Medicine (MD)

Effective September 2019 (Class of 2023) and beyond

| | |
|-----|---|
| PAS | Clear competency with regard to all criteria considered essential for the completion of that specific course, including a minimum of 70% on summative assessments in the course as outlined in the course syllabus. |
| FAI | An inability to meet the minimal acceptable standards and/or competency for a specific course including a minimum of 70% on summative assessments in the course as outlined in the course syllabus. |

Effective September 2004 (For students who entered the MD Program prior to September 2019)

| | |
|-----|---|
| PAS | Clear competency with regard to all criteria considered essential for the completion of that specific course. On any evaluation, this will be determined by achieving a minimum of 60%. |
| FAI | An inability to meet the minimal acceptable standards for a specific course. Less than 60%. |

Faculty of Law

Effective September 2020

| | |
|-----------|------------------|
| A+, A, A- | Excellent |
| B+, B, B- | Good |
| C+, C | Competent |
| C- | Barely Competent |
| D | Marginal Pass |
| F | Fail |