



COURSE COMPARISON AGREEMENT

PARTIES Brock University (“Brock”)
- and -
DHA SUFFA UNIVERSITY (“DSU”)

EFFECTIVE DATE April 29, 2021

BACKGROUND

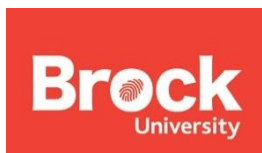
1. In 2020, Brock and DSU entered into a Memorandum of Understanding (“MOU”) under which the Parties agreed to cooperate for the purposes of promoting international and intercultural understanding, research and exchange between the two institutions.
2. Pursuant to the MOU, the Parties have now agreed to the course comparison provisions set out in this Course Comparison Agreement (“Agreement”) for the purposes of the DSU American Degree Program.

AGREEMENT

1. Eligibility for course credit

- DSU students who apply to and are admitted to Brock will be eligible to receive credit for the courses listed below in the amounts listed below, subject to the following:
- a. the listed degree-level courses will only be eligible for credit towards an undergraduate degree program at Brock if a minimum grade equivalent of 60% was achieved; and
 - b. a maximum of 15.0 credits can be accepted as credit at Brock.

| BROCK | | | DHA SUFFA | |
|-------------|-------------------------------------|---------|------------------|---|
| COURSE CODE | COURSE TITLE | CREDITS | COURSE CODE | COURSE TITLE |
| COSC1P02 | Intro to Computer Science | 0.5 | CS1001 | Programming Fundamentals |
| COSC2P03 | Advanced Data Structures | 0.5 | CS2001 | Data Structures and Algorithms |
| COSC2P12 | Intro to Computer Architecture | 0.5 | CS2101 | Computer Organisation and Assembly Language |
| COSC2P13* | Computer Systems | 0.5 | CS3002 + CS 3003 | Operating Systems + Data Comm and Computer Networks |
| COSC2P95 | Programing in C++ with Applications | 0.5 | CS1002 | Object Oriented Programming |
| COSC4P61 | Theory of Computation | 0.5 | CS2102 | Theory of Automata and Formal Languages |
| COSC3P03 | Algorithms | 0.5 | CS2103 | Design & Analysis of Algorithms |
| COSC3P32 | Intro to Data Systems | 0.5 | CS2003 | Database Systems |
| COSC3P71 | Intro to Artificial Intelligence | 0.5 | CS3102 | Artificial Intelligence |



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|--|---|-----|----------|-------------------------------------|
| COSC3P93 | Parallel Computing | 0.5 | CS4101 | Parallel Distribution and Computing |
| MATH1P05 + MATH1P06 or MATH1P01 + MATH1P02 | Applied Calculus I and II or Calculus Concepts I and II | 1 | BS1301** | Calculus and Analytical Geometry |
| MATH1P12 | Applied Linear Algebra | 0.5 | BS1302 | Linear Algebra |
| MATH1P98 | Practical Statistics | 0.5 | BS1402 | Probability and Statistics |
| MATH2P03 | Multivariable Calculus | 0.5 | BS2301 | Multivariate Calculus |
| MATH2P08 | Ordinary Differential Equations | 0.5 | BS2302 | Differential Equations |
| PHYS1P21 | Introductory Physics I | 0.5 | BS1101 | Applied Physics |
| PHYS4P10 | Introduction to Scientific Computing | 0.5 | BS3302 | Numerical Computing |

*COSC2P13 = CS3002 + CS3003: both CS courses must be completed to be granted BU credit.

**BS1301 = MATH1P05+MATH1P06 or MATH1P01+MATH1P02: BS1301 will be granted credit for a single pair of courses as specified above.

2. Annual Curriculum Review and Equivalency Amendments

- a. **Annual review:** The courses listed under section 1 above will only be eligible for credit for the **2021-22** academic year. The Parties will review these courses annually and any arrangements for future academic years must be approved in writing by both Parties.
- b. **Curriculum changes:** In the event of curriculum changes, the credits listed under section 1 above may not be granted. Each Party agrees to notify the other Party of curriculum changes within a reasonable period of time following the introduction of the change.

3. Information sharing

DSU and Brock will make information about these course credits available to students and to their respective admissions offices.

4. Discretion to approve credits

Brock reserves the right to approve course credits at its sole discretion and DSU acknowledges that not all courses may receive credit at Brock. Both Parties will ensure that all communications to students with respect to these credit arrangements make no representations or warranties guaranteeing the approval of course credits.

5. Term and termination

The Agreement will come into effect on the Effective Date indicated on page 1 of this Agreement and shall remain in effect for a term of five (5) years. This Agreement may be terminated as follows:

- a. If the MOU between the Parties is terminated or expires, this Agreement shall automatically terminate;
- b. Either Party may terminate this Agreement upon 60 days' written notice to the other Party, provided that course credits are processed as set out in this



Agreement for any DSU student who has applied for course credit prior to the date of termination; and

- c. Either Party may terminate this Agreement immediately upon material breach of this Agreement by the other Party which is not remedied by the other Party within 15 days of notice or which is not considered capable of being remedied by the Party.

6. General provisions

- a. **Entire Agreement:** This Agreement contains the entire agreement of the Parties and there are no representations, inducements or other provisions other than those expressed in this Agreement. All changes, additions or deletions to this Agreement shall be in writing and executed by the authorized representatives of both Parties.
- b. **Governing law:** This Agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the Parties submit to the exclusive jurisdiction of the courts of Ontario, with due respect at the same time for the laws of Pakistan.
- c. **Signatures:** This Agreement may be executed in one or more counterparts, each of which will be deemed an original, but all of which will constitute one and the same instrument. This Agreement may be executed by electronic signature, which shall be considered as an original signature and shall have the same force and effect as an original signature. Without limitation, "electronic signature" shall include faxed versions of an original signature, electronic scanned and transmitted versions of an original signature and any electronic signature provided through third party electronic signature capture services providers. Delivery by electronic transmission portable document format (PDF) of an executed counterpart of this Agreement is as effective as delivery of an originally executed counterpart of this Agreement.

SIGNED by the Parties through their authorized signatories:

DHA SUFFA UNIVERSITY

BROCK UNIVERSITY

DocuSigned by:

524976 FAC 1303
Prof. Dr. Muhammad Afzal Haque
Vice Chancellor

DocuSigned by:

718461656 AV1
Dr. Geran Fearon
President & Vice-Chancellor
Date: 5/13/2021



DocuSigned by:

A small, grey, rectangular box containing a handwritten signature in black ink.

Prof. Dr. Ahmed Saeed Minhas
Pro Vice Chancellor

DocuSigned by:

A handwritten signature in black ink that reads "Lynn Wells".

Dr. Lynn Wells
Provost & Vice-President, Academic
Date: 5/12/2021

DocuSigned by:

A handwritten signature in black ink that reads "Syed Ejaz Ahmed".

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Dr. Syed Ejaz Ahmed
Dean, Faculty of Math and Science
Date: 5/12/2021