

APPENDIX A

International Dual BSc Degree in Computer Science

Between York University

And

Hochschule Bonn-Rhein-Sieg

With the cooperation of The University of Crete

Typical STUDY PROGRESSION: **York Students**

First Year (York)	
CSE 1001 1.0	Research Directions in Computing
CSE 1020 3.0	Introduction to Computer Science I
CSE 1030 3.0	Introduction to Computer Science II
MATH 1300 3.0	Calculus I
MATH 1310 3.0	Calculus II
MATH 1019 3.0	Discrete Mathematics for Computer Science
SC Lab: 6 credits from: BIOL 1010 6.00; PHYS 1010 6.00; PHYS 1410 6.00; PHYS 1420 6.00; pair of CHEM 1000 3.00 and CHEM 1001 3.00; or pair of EATS 1010 3.00 and EATS 1011 3.00	These also count as 12 ECTS SPEZ (technical Electives) toward the BRSU degree
6 credits in German language and culture (for example, GER 1000 6.0 or a higher level course depending on the student's prior knowledge)	
28 CR (56 ECTS)	
Second Year (York)	
CSE 2001 3.0	Introduction to Theory of Computation
CSE 2011 3.0	Data Structures
CSE 2021 4.0	Computer Organization
CSE 2031 3.0	Software Tools
MATH 1090 3.0	Introduction to Logic for Computer Science (this contributes another 6 ECTS SPEZ toward BRSU degree)
MATH 1025 3.0	Lin. ALgebra

6 credits in Greek language and culture (for example, GKM1000 6.0 or a higher level course depending on the student's prior knowledge)	
6 non-science credits to meet the "modified general education" requirement.	
31 CR (62 ECTS)	
Third Year (Fall/Winter/Summer in the EU)	
Fall Term (BRSU)	
MATH2030 3.0	Probability/Statistics. BRSU substitute: GS (6 ECTS)
CSE3311 3.0	Software Design. BRSU substitute: SE1 (6 ECTS)
One CSE3xxx/4xxx 3.0: Suggested choices: CSE3213 3.0, CSE4422 3.0, CSE4312 3.0, CSE 4421 3.0, 4431 3.0, 4471 3.0, 4461 3.0	At the left the choices are listed in terms of York substitute courses (6 ECTS)
CSE3000 3.0	Legal, ethical and professional issues in computing, incl. ethics, Comp. Security concerns, etc. BRSU substitute: IS + the first RE [3rd semester version] (9 ECTS)
CSE3421 3.0	Intro. to Data Base Systems. BRSU Requirement; Substitute: DBS (6 ECTS)
Subtotal ECTS at BRSU; Fall: 33	
Winter Term (UOC)	
CSE3101 3.0 [UOC substitute: CS380; this is 8 ECTS at UOC] and CSE3221 3.0 [UOC substitute: CS345; this is 8 ECTS at UOC]	Design and Analysis of Algorithms and Operating Systems (York credits 6 ; UOC ECTS: 16).
Research Internship and Thesis.	<p>The Research Internship that leads to the Thesis is co-supervised at ICS¹/UOC by BRSU and UOC faculty over the Winter term², extended, if needed, until the end of July.</p> <p>All student/supervisor interaction is conducted in English.</p> <p>BRSU is credited the ECTS count (toward its degree) as: 27 ECTS (12 Internship + 12 Thesis + 3 Oral Defence).</p> <p>York Credits Earned: 6.</p>
Subtotal ECTS at UOC; Winter: 43	
GRAND TOTAL of ECTS in the EU for Year 3: 76	
Cumulative Total of York-Equivalent Credits by End of Year Three: 86 At this point all COSC Major, LAB/MATH, and SC (68 credits) requirements for the BSc O are met for York students.	

¹ ICS: *Institute of Computer Science of the Foundation for Research and Technology Hellas (FORTH).*

² The Winter Term of UOC ends at the end of June.

Fourth Year (York)	
CSE3401 3.0	
CSE4111 3.0 OR CSE4115 3.0 OR CSE4101 3.0	
CSE408x 6.0 (x>0)	Note: This is a direct transfer/translation of the 12 ECTS completed in UOC, counted toward the Thesis requirement.
3.0 more credits: CSE3xxx 3.0 or CSE4xxx 3.0	The choices must lead to the completion of a total of 12 CSE4xxx credits.
Additional courses for a total of 120 York credits including: a total of 90 SC credits and 42 credits at the 3000/4000 levels.	
6 credits outside MATH and CSE	

Typical STUDY PROGRESSION; BRSU Students

First Three Consecutive Terms at BRSU	
BRSU Students will complete the following courses at their Home University (left column, first row below) <i>before</i> coming to York University to complete their BSc O (York) and BSc <i>Informatik</i> (BRSU) degrees.	
EPRO, PROG, DSAL, MP, THEO, TI, DBS, RN, SE1, IS, AN, GS, BWL I, BWL II, ENGL, ICC, and <u>both</u> RE courses (legal issues in computing)	The BRSU courses in the left column are <i>transferred</i> to York University as a total of 99 ECTS or 50 York Credits . These 50 transfer credits include the following (named) CSE and MATH degree-level <i>substitutes</i> (in matching order): CSE: 1001 1.0, 1020 3.0, 1030 3.0, 1019 3.0; CSE: 2001 3.0, 2021 4.0; CSE: 3421 3.0, 3213 3.0, 3311 3.0, 3481 3.0; MATH: 1300 3.0, 1310 3.0; 2030 3.0;
BWL I, and II, along with ENGL and ICC, and the two RE courses (18 ECTS at BRSU or 9 York credits) <i>fulfil</i> the <i>modified general education</i> requirement for the <i>visiting</i> students.	
Three or Four Terms spent at York University (Summer, Fall, Winter; and Summer, the latter if needed) to meet the following requirements:	
Science Lab: 6 credits from: BIOL 1010 6.00; PHYS 1010 6.00; PHYS 1410 6.00; PHYS 1420 6.00; pair of CHEM 1000 3.00 and CHEM 1001 3.00; or pair of EATS 1010 3.00 and EATS 1011 3.00	
MATH1090 3.0, CSE2031 3.0 and CSE2011 3.0 (must be taken in the first Summer Term)	
MATH1025 3.0 (first Summer Term or Fall Term; this is a BRSU requirement)	
CSE3221 3.0 (Fall term)	
CSE3101 3.0 (Fall Term)	
CSE4312 3.0 (Fall Term) [Required by BRSU].	
Any one CSE3xxx (meets the BRSU "SPEZ 4" — technical elective number 4) and one CSE4xxx (meets the BRSU Seminar requirement). Both taken in the Winter Term.	
CSE408x 6.0 (x>0) , Thesis (FW term); Academic Internship at York (BRSU's " PRAK " may require the student staying also during the following Summer Term).	
Total York Credits: 39 ; Total CSE credits: 27 (York University Residence Requirements met) ;	

ENDNOTES:

1. BRSU students are expected to finish all of the first and second year requirements as these apply to York University's BSc O in Computer Science (**exceptions:** MATH1090, CSE2031 and CSE2011) before they arrive to York University. Indeed BRSU students will arrive having also completed a number of CSE3xxx substitute-credits. The York substitutes of BRSU courses (and the original BRSU acronyms), transferred to York, are listed in the same order in columns one and two of the 3rd row of the above table.
2. BRSU students will meet their Thesis requirement by doing a CSE408x, x>0, (e.g., CSE4082 6.0) research project course, while studying at York University.