

Addendum

to the Supplement to the 2015-2020 MOU between York and H-BRS

Operational Details of the Dual Degree Program Bachelor in Computer Science

Curriculum for typical H-BRS students.

Location of student	Curriculum	Transferred as ...
H-BRS	<p>BI-MTI-DL - Einführung in die Diskrete Mathematik und Lineare Algebra (6 ECTS)</p> <p>BI-MTI-LO - Logische Grundlagen für die Informatik (3 ECTS)</p> <p>BI-PSE-P1 - Einführung in die Programmierung (9 ECTS)</p> <p>BI-VRS-TP - Technische Informatik & Physikalische Grundlagen (9 ECTS)</p> <p>BI-MTI-AN - Einführung in die Analysis (6 ECTS)</p> <p>BI-PSE-DB – Datenbanken (6 ECTS)</p> <p>BI-PSE-P2 - Programmierung 2 (6 ECTS)</p> <p>BI-VRS-NW – Netze (6 ECTS)</p> <p>BI-VRS-SP – Systemnahe Programmierung (3 ECTS)</p> <p>BI-MTI-AF - Einführung in die Automatentheorie und Formale Sprachen (6 ECTS)</p> <p>BI-MTI-WS - Grundlagen von Wahrscheinlichkeitstheorie und Statistik (6 ECTS)</p> <p>BI-PSE-AD - Algorithmen & Datenstrukturen und Graphentheorie (6 ECTS)</p> <p>BI-VRS-BS – Betriebssysteme (6 ECTS)</p> <p>BI-VRS-IS - IT-Sicherheit (6 ECTS)</p> <p>BI-WIA-PS – Projektseminar (3 ECTS)</p> <p>BI-ÜFK-BW – Betriebswirtschaftslehre (3 ECTS)</p> <p>BI-ÜFK-EN – Englisch (3 ECTS)</p> <p>Intercultural Communications (3 ECTS)</p> <p>Sub-total H-BRS A: 93 ECTS acquired towards H-BRS degree</p>	<p>EECS 1001 1.0 Research Directions in Computing</p> <p>EECS 1019 3.0 Discrete Mathematics for Computer Science</p> <p>EECS 1022 3.0 Programming for Mobile Computing</p> <p>EECS 2001 3.0 Introduction to Theory of Computation</p> <p>EECS 2011 3.0 Data Structures</p> <p>EECS 2021 4.0 Computer Organization</p> <p>EECS 2030 3.0 Advanced Object-Oriented Programming</p> <p>EECS 2031 3.0 Software Tools</p> <p>EECS 3213 3.0 Communication Networks</p> <p>EECS 3221 3.0 Operating Systems</p> <p>EECS 3421 3.0 Introduction to Database Systems</p> <p>EECS 3482 3.0 Computer Security</p> <p>MATH 1300 3.0 Calculus I</p> <p>MATH 1310 3.0 Calculus II</p> <p>MATH 2030 3.0 Probability</p> <p>Further 3 credits outside MATH and EECS</p> <p>Sub-total York A: 47 credits recognized towards York degree</p>

York	<p>6 credits from the following</p> <p>PHYS 1010 6.0 Physics or PHYS 1410 6.0 Physical Science or PHYS 1420 6.0 Physics with Applications to Life Science BIOL 1000 3.00 & BIOL 1001 3.00 or BIOL 1010 6.00 or CHEM 1000 3.00 & CHEM 1001 3.00</p> <p>EECS 1012 3.0 Introduction to Computing: A Net-Centric Approach EECS 3101 3.0 Design and Analysis of Algorithms EECS 3311 3.0 Software Design EECS 4312 3.0 Software Engineering Requirements EECS 3000 3.0 Professional Practice in Computing EECS 3215 4.0 Embedded Systems OR EECS 3401 3.0 Introduction to Artificial Intelligence and Logic Programming OR EECS 3461 3.0 User Interfaces MATH 1090 3.0 Introduction to Logic for Computer Science</p> <p>Further 9 credits outside MATH and EECS</p> <p>Sub-total York B: 36 credits acquired towards York degree</p>	<p>BI-SPZ-S1 – BI- Spezialisierung I (6 ECTS) BI-SPZ-S2 – BI- Spezialisierung II (6 ECTS) BI-SPZ-S3 – BI- Spezialisierung III (6 ECTS) BI-SPZ-S4 – BI- Spezialisierung IV (6 ECTS) BI-WPF-W1 – BI-Wahlpflicht I (6 ECTS) BI-WPF-W2 – BI-Wahlpflicht II (6 ECTS) BI-WIA-LS – Literaturseminar (3 ECTS) BI-ÜFK-R1 - Einführung in das IT-Recht (3 ECTS) BI-MTI-BK – Berechenbarkeit und Komplexität (6 ECTS) BI-PSE-S1 - Software Engineering I (6 ECTS) BI-PSE-S2 - Software Engineering II (6 ECTS)</p> <p>Sub-total H-BRS B: 54 ECTS recognized towards H-BRS degree</p>
H-BRS ¹	<p>BI-PRJ-PP – Praxisprojekt (12 ECTS) BI-THS-TH – Bachelor Thesis (12 ECTS) BI-THS-KO – Kolloquium (3 ECTS)</p> <p>Sub-total H-BRS C: 27 ECTS acquired towards H-BRS degree</p>	<p>EECS 4088 6.0 Capstone Project Computer Science</p> <p>Sub-total York A: 6 credits recognized towards York degree</p>
	<p>H-BRS-Total: 180 ECTS towards the BSc Informatik Degree</p>	<p>York-Total: 90 credits towards the BSc Bachelor Degree in Computer Science</p>

¹ The H-BRS Praxisprojekt, Thesis and Kolloquium are typically done while still at York, however, registered as H-BRS acquirments.

Curriculum for typical York students.

Location of student	Curriculum	Transferred as ...
York	<p> EECS 1001 1.0 Research Directions in Computing EECS 1012 3.0 Introduction to Computing: A Net-Centric Approach EECS 1019 3.0 Discrete Mathematics for Computer Science EECS 1022 3.0 Programming for Mobile Computing EECS 2001 3.0 Introduction to Theory of Computation EECS 2011 3.0 Data Structures EECS 2021 4.0 Computer Organization EECS 2030 3.0 Advanced Object Oriented Programming EECS 2031 3.0 Software Tools MATH 1300 3.0 Calculus I MATH 1310 3.0 Calculus II MATH 1090 3.0 Introduction to Logic for Computer Science PHYS 1010 6.0 Physics or PHYS 1410 6.0 Physical Science or PHYS 1420 6.0 Physics with Applications to Life Science MATH 2030 3.0 Probability ECON 1000 3.0 Introduction to Microeconomics AP/GER 1000 6.0 Elementary German AP/GER 2000 6.0 Intermediate German </p> <p>Further 3 credits outside Mathematics and Computer Science</p> <p>Sub-total York A: 59 credits acquired towards York degree</p>	<p> BI-MTI-DL - Einführung in die Diskrete Mathematik und Lineare Algebra (6 ECTS) BI-MTI-LO - Logische Grundlagen für die Informatik (3 ECTS) BI-PSE-P1 - Einführung in die Programmierung (9 ECTS) BI-VRS-TP - Technische Informatik & Physikalische Grundlagen (9 ECTS) BI-ÜFK-BW – Betriebswirtschaftslehre (3 ECTS) BI-MTI-AN - Einführung in die Analysis (6 ECTS) BI-PSE-P2 - Programmierung 2 (6 ECTS) BI-VRS-SP – Systemnahe Programmierung (3 ECTS) BI-ÜFK-EN – Englisch (3 ECTS) BI-MTI-AF - Einführung in die Automatentheorie und Formale Sprachen (6 ECTS) BI-MTI-WS - Grundlagen von Wahrscheinlichkeitstheorie und Statistik (6 ECTS) BI-PSE-AD - Algorithmen & Datenstrukturen und Graphentheorie (6 ECTS) BI-WIA-PS – Projektseminar (3 ECTS) BI-MTI-BK – Berechenbarkeit und Komplexität (6 ECTS) BI-WPF-W1 – Logik II (6 ECTS) BI-SPZ-S1 – BI- Spezialisierung I (6 ECTS) BI-SPZ-S2 – BI- Spezialisierung II (6 ECTS) </p> <p>Sub-total H-BRS A: 93 ECTS recognised towards H-BRS degree</p>
H-BRS	<p> BI-PSE-S1 - Software Engineering I (6 ECTS, possible as directed reading course) BI-PSE-S2 - Software Engineering II (6 ECTS, possible as directed reading course) BI-VRS-BS – Betriebssysteme (6 ECTS, possible as directed reading course) BI-PSE-DB – Datenbanken (6 ECTS, possible as directed reading course) </p>	<p> EECS 3311 3.0 Software Design EECS 4312 3.0 Software Engineering Requirements EECS 3221 3.0 Operating Systems EECS 3421 3.0 Introduction to Databases EECS 3213 3.0 Communication Networks EECS 4088 6.0 Capstone Project Computer Science </p>

	<p>BI-VRS-NW – Netze (6 ECTS, possible as directed reading course) BI-PRJ-PP – Praxisprojekt (12 ECTS) BI-THS-TH – Bachelor Thesis (12 ECTS) BI-THS-KO – Kolloquium (3 ECTS)</p> <p>Sub-total H-BRS B: 57 ECTS acquired towards H-BRS degree²</p>		
York	<p>EECS 3401 3.0 Introduction to AI and Logic Programming EECS 4111 3.0 Computability and Complexity or EECS 4115 3.0 Computational Complexity or EECS 4101 3.0 Advanced Data Structures EECS 3000 3.0 Professional Practice in Computing Further 15 credits</p> <p>Sub-total York C: 40 credits acquired towards York degree</p>		<p>Sub-total York B: 21 credits recognized towards York degree</p> <p>BI-SPZ-S3 – BI- Spezialisierung III (6 ECTS) BI-SPZ-S4 – BI- Spezialisierung IV (6 ECTS) BI-WIA-LS – Literaturseminar (3 ECTS) BI-ÜFK-R1 - Einführung in das IT-Recht (3 ECTS) BI-VRS-IS - IT-Sicherheit (6 ECTS) BI-WPF-W1 – BI-Wahlpflicht II (6 ECTS)</p> <p>Sub-total H-BRS C: 30 ECTS recognized towards H-BRS degree</p>
	<p>York-Total: 120 credits towards the Specialized Honours BSc Degree</p>		<p>H-BRS-Total: 180 ECTS towards the BSc Informatik Degree</p>

² The above named selection of courses serves as a sample and can be altered according to the individual course of study. H-BRS will guarantee that at least half of the courses for credit agreed upon in the learning agreement are offered in English. Furthermore, H-BRS will ensure that in the remaining courses teaching material (slides, textbooks, etc.) will be available in English language. Also examination will be offered in English language upon request.