

Articulation Agreement between the Universiti Brunei Darussalam and the University of Windsor

Proposal:

The Articulation Committee proposes that the University of Windsor, Canada, and the Universiti Brunei Darussalam (UBD), Brunei Darussalam, enter into a twinning program in Biotechnology. This articulation follows a Letter of Understanding signed January 1, 2002, and a Declaration of Intent signed on August 2, 2002. All details below were approved by the Faculty of Science on September 20, 2002.

Background

Students will be recruited to the Faculty of Science at the Universiti Brunei Darussalam (UBD) for two years of study and a subsequent transfer to the third year of either the Honours Biology and Biotechnology program, or the Honours Biochemistry and Biotechnology program at the University of Windsor. The anticipated number of students is expected to be between 5 and 10 each academic year starting Fall 2005.

Details

1. Honours Biology and Biotechnology program

Students will be admitted into this program at UBD with three A-levels or equivalent in Chemistry, Biology, and Mathematics with grades of B, C, C, or better. Students completing the UBD courses listed in the second column of Table 1 with a cumulative average of C+ (65%) or better and who have completed the University of Windsor course 03-59-263-91 (Distance Education version of Organic Chemistry of Biomolecules) with a grade of B- or better, will be eligible for transfer directly into the third year of the Honours Biology and Biotechnology program at the University of Windsor. Students must meet the University of Windsor's English language competency requirements and admission requirements before enrolling in 03-59-263-91. Successful transfer students will be considered to have all the prerequisites necessary for continuation in the program, and will receive credit for the 19 University of Windsor courses listed in the first column of Table 1.

Table 1 - Transfer to Biology and Biotechnology

U of W Transfer Credits	UBD Courses
03-55-140 Biological Diversity	BI 1107 Evolution and Diversity
03-59-140 General Chemistry I	CH 1101 General Chemistry 1
03-62-140 Calculus A	MA 1101 Introduction to Maths 1
03-60-104 Computer Concepts for End-Users 1 Option	CO 1601 Introduction to Computing LC 1XXX English I
03-59-141 General Chemistry II	CH 1102 General Chemistry 2
03-62-141 Calculus B	MA 1102 Introduction to Maths 2
03-60-1XX Year 1 Computer Science Course*	CO 1603 Computer Programming
03-55-141 Cell Biology	AB 1503 Melayu Islam Beraja
03-55-211 Genetics	LC 1XXX English 2
03-59-230 Introductory Organic Chemistry	BI 2209 Cell Biology & Biochemistry
03-59-240 Introductory Physical Chemistry 1	BI 2207 Genetics
03-55-242 Immunology	CH 2217 Organic Chemistry 1
03-64-140 Introductory Physics I	CH 2207 Physical Chemistry 1
03-55-213 General Physiology	
03-55-238 Introductory Microbiology and Techniques	CH 2247 Chemistry Laboratory 1
03-55-XXX Biology Option	PH 1105 Introductory Physics 1
03-55-XXX Biology Option	PH 1104 Experimental Physics 1A
03-64-141 Introductory Physics II	LC 2XXX English 3
	BI 3202 Animal Physiology
	BI 3208 Microbiology
	BI 3209 Molecular Genetics
	BI 4227 Biotechnology
	PH 1107 Introductory Physics 2
	PH 1104 Experimental Physics 1B
	LC 2XXX English 4

* Students entering the program under this articulation will use this Year 1 Computer Science course in place of credit for 03-60-106 for graduation purposes.

2. Honours Biochemistry and Biotechnology program

Students will be admitted into this program at UBD with three A-levels or equivalent in Chemistry, Biology, and Mathematics with grades of B, C, C, or better. Students completing the UBD courses listed in the second column of Table 2 with a cumulative average of C+ (65%) or better and who have completed the University of Windsor course 03-59-263-91 (Distance Education version of Organic Chemistry of Biomolecules) with a grade of B- or better, will be eligible for transfer directly into the third year of the Biochemistry and Biotechnology program at the University of Windsor. Students must meet the University of Windsor's English language competency requirements and admission requirements before enrolling in 03-59-263-91. Successful transfer students will be considered to have all the prerequisites necessary for continuation in the program, and will receive credit for the 19 University of Windsor courses listed in the first column of Table 2.

Table 2 - Transfer to Biochemistry and Biotechnology

U of W Transfer Credits	UBD Course
03-55-140 Biological Diversity	BI 1107 Evolution and Diversity
03-59-140 General Chemistry I	CH 1101 General Chemistry 1
03-62-140 Calculus A	MA 1101 Introduction to Maths 1
03-60-104 Computer Concepts for End-Users	CO 1601 Introduction to Computing
1 Option	LC 1XXX English I
03-59-141 General Chemistry II	CH 1102 General Chemistry 2
03-62-141 Calculus B	MA 1102 Introduction to Maths 2
03-60-1XX Year 1 Computer Science Course*	CO 1603 Computer Programming
03-55-141 Cell Biology	AB 1503 Melayu Islam Beraja
03-59-230 Introductory Organic Chemistry	LC 1XXX English 2
03-59-240 Introductory Physical Chemistry 1	BI 2209 Cell Biology & Biochemistry
03-59-250 Introductory Inorganic Chemistry 1	CH 2217 Organic Chemistry 1
03-64-140 Introductory Physics I	CH 2207 Physical Chemistry 1
03-55-213 General Physiology	CH 2227 Inorganic Chemistry 1
03-55-238 Introductory Microbiology and Techniques	CH 2247 Chemistry Laboratory 1
03-59-235 Introductory Organic Chemistry II	PH 1105 Introductory Physics 1
03-59-241 Introductory Physical Chemistry II	PH 1104 Experimental Physics 1A
03-59-251 Introductory Inorganic Chemistry II	LC 2XXX English 3
03-64-141 Introductory Physics II	BI 3202 Animal Physiology
	BI 3208 Microbiology
	CH 3217 Organic Chemistry 2
	CH 3207 Physical Chemistry 2
	CH 3227 Inorganic Chemistry 2
	CH 3247 Chemistry Laboratory 2
	PH 1107 Introductory Physics 2
	PH 1104 Experimental Physics 1B
	LC 2XXX English 4

*** Students entering the program under this articulation will use this Year 1 Computer Science course in place of credit for 03-60-106 for graduation purposes.**