ARTICULATION AGREEMENT

Howard Community College
Associate of Arts : Information Technology
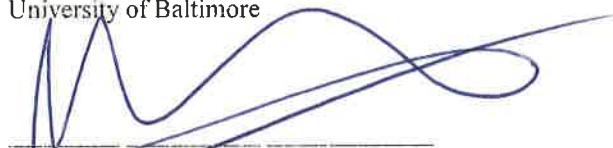
and

University of Baltimore
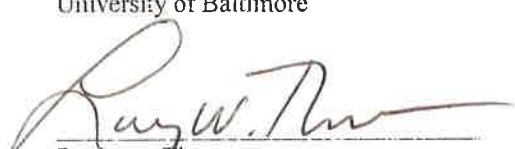## Bachelor of Science in Applied Information Technology

Entered into this _**Ⴑ NOVEM**_ day of _**NOVEMBER**_ . 2006.
          (date)   (month)
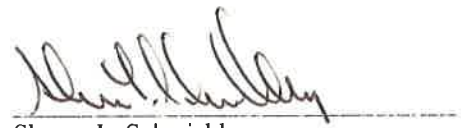
Robert Bogomolny,
President
University of Baltimore

Mary Ellen Duncan
President
Howard Community College

Wim Wiewel
Provost and Senior Vice President
for Academic Affairs
University of Baltimore

Ronald X. Roberson
Vice President of Academic Affairs
Howard Community College

Dr. Larry Thomas,
Dean, Yale Gordon School of Liberal Arts
University of Baltimore

Sharon L. Schmickley
Chair, Business and Computer Systems Division
Howard Community College

Dr. Nancy Kaplan
Program Director, Applied Information Technology
University of Baltimore

This agreement is effective with new *UB* admits beginning in Fall, 2006.

This agreement will be reviewed *biennially*

ARTICULATION AGREEMENT

Howard Community College (hereafter referred to as Howard CC), a community college in Howard County, Maryland, and the University of Baltimore (hereafter referred to as UB), a state university in Baltimore, Maryland and a member of the University System of Maryland, agree to offer an articulated program leading to the award of a Bachelor of Science in Applied Information Technology.

PURPOSE OF AGREEMENT

This agreement is entered into in the interests of our students. The general purpose of this agreement is to make clear the terms of this articulation agreement. This agreement will allow for the efficient transfer of students between campuses, including transfer credit, admissions and financial aid/scholarship. It will provide opportunities for students beyond the classroom, serving as a basis for student involvement and faculty interaction. It will set expectations for administrators, faculty and staff at both institutions, and foster a working relationship between the parties. Finally, it will encourage students to continue their education for their own personal and professional development.

ADMINSTRATIVE PRINCIPLES

The following general principles guide the operation of this Agreement:

1. The program is designed for graduates of the associate degree in Information Technology at Howard. A maximum of 60 credit hours from Howard CC will be allowed towards fulfillment of the one hundred twenty (120) credit hours required for baccalaureate completion.

2. This Articulation agreement is divided into three program tracks: 1. PC/Network Hardware/iNet Option, 2. Programming Option, 3. Cisco Option. Students interested in the Web Development program are encouraged to pursue the Simulation and Digital Entertainment or Computer Science degree at the University of Baltimore.

3. In accordance with Code of Maryland Regulation, all courses meeting general education requirements at will transfer to UB as general education. Other general education requirements will be met by using required or elective courses at UB as noted in this agreement.

4. The maximum number of credits that will be accepted by UB toward degree requirements from non-direct classroom instruction (including CLEP, AP, other nationally recognized standardized examination scores and other four-year institutions) is 30 credits. If the course is evaluated by Howard CC and applied to the Information Technology degree, UB will accept the course automatically as a transfer course. If the credit is not on the Howard CC transcript, the student may submit the score report to be evaluated by UB and credit will be applied as determined by UB's evaluation. Credit awarded for experiential

learning ("life experience") if awarded by Howard CC is recognized by, and is transferable to UB. Credit earned at the High School level is not applicable for transfer. It is possible that not all transferable credit accepted by UB will be applicable to the degree.

5. Courses completed at another community college will count towards the total credits transferred into UB. Official transcripts from previously attended institutions will also be required.

6. Once the associate's degree is completed and the student has been admitted to UB, the student will be instructed to contact the appointed academic advisor and register for classes.

7. While Howard CC and UB do not presently have a dual admissions program, should one be agreed to, this agreement will not preclude students from participation and students may apply for and receive the benefits of dual admission.

8. UB will establish a mechanism to provide information on the academic progress of the Howard CC student enrolled as a result of this agreement.

9. Students may complete the UB curriculum part-time or full-time, online or face-to-face, or in any combination thereof.

10. This articulation agreement becomes effective on the date set forth on the first page of this document. This agreement will be reviewed biennially, and appropriately marked as such.

11. Howard CC and UB agree to publicize this program.

12. Howard CC and UB agree to monitor the performance of this agreement and to revise it as necessary.

13. The agreement may be terminated by either party after adequate notice, defined as one semester or 6 months, to the other, at which time appropriate measures will be put into place regarding the continued transfer of students.

14. The office of record for academic agreements at the University of Baltimore is the Office of Community College Relations. The office of record for agreements at Howard Community College is the Office of the Vice President of Academic Affairs.

For admission to UB, the following apply:

1. Students must maintain a 2.0 cumulative grade point average in order to transfer at the 56 credit level or higher. Should students choose to transfer prior to completion of their associate's degree, they will be responsible for meeting eligibility requirements.

2. In order to be eligible for admission, students must comply with all UB admissions requirements, including posted deadlines and appropriate documentation.

3. Should this articulation agreement concern a program with additional admissions requirements or prerequisite coursework, students must have met all standards prior to enrollment at UB.

4. Students who have satisfied the requirements of the articulation agreement will be given every consideration for financial assistance and will be eligible to compete for academic scholarships at UB.

APPENDICIES

As part of this agreement, the following have been included.

1. Course by Course articulations, including satisfaction of general education requirements at both Howard CC and the University of Baltimore.
2. Upper Division requirements, to be completed at the University of Baltimore.
3. An academic advising sheet, showing requirements for completion of the degree at Howard.

These appendices can be changed on a routine basis, by mutual agreement, without the procedural process review or revision of the entire articulation agreement.

APPENDIX I - COURSE ARTICULATIONS (Information Technology – PC/Network Hardware/iNet Option)

The following pages indicate the course-to-course equivalency, as agreed upon within the articulation agreements.

Course to course articulation, including General Education

Howard CC Course	Credits	UB Equivalent	Explanation/Notes
CMSY105	3	Lower Level Elective	
CMSY106	3	Lower Level Elective	
CMSY121	3	Lower Level Elective	
CMSY147 OR CMSY151	3	Lower Level Elective	
MSFT299	3	Lower Level Elective	
MATH121 OR MATH138	3-4	Lower Level Elective	
CMSY218 OR CMSY219 OR (CMSY134/142/143) OR CMSY110 OR CMSY147 OR CMSY151 OR CMSY162 OR CMSY190 OR CMSY250 OR CMSY255 OR CSCO270 OR MSFT Course (except MSFT-299)	6	Lower Level Elective	
ENGL121	3	Lower Level Elective	Satisfies the English Composition General Education Area
ENGL122	3	Lower Level Elective	
Literature Core Course	3	Lower Level Elective	Satisfies the Arts and Humanities General Education Area, and the UB Literature Graduation requirement
Fine Arts Core Course	3	Lower Level Elective	Satisfies the Arts and Humanities General Education Area and the UB Fine Arts Graduation requirement
SPCH105	3	Lower Level Elective	Satisfies the Arts and Humanities General Education Area
History Core Course	3	Lower Level Elective	Satisfies the Arts and Humanities General Education Area and Satisfies the UB History or Philosophy Requirement
Social Behavioral Core Course	6	Lower Level Elective	Satisfies the Social and Behavioral Science General Education Area
Science Core Course	7-8	Lower Level Elective	Satisfies the Science General Education Area
MATH131	3	Lower Level Elective	Satisfies the Math General Education Area
CMSY129	3	Lower Level Elective	
TOTAL	**61-63***	*A maximum of 60 credits will transfer to UB	

APPENDIX II : UPPER DIVISION REQUIREMENTS

All Howard CC transfer students will be required to take a minimum of 60 credits of upper division coursework at UB.

Completion of the Applied Information Technology program at UB requires students to successfully complete the following course work:

Course Number	Course Title	Credit Hours	Explanation
Upper Division General Education Core Requirements (9 Credits)			
IDIS300	Ideas in Writing	3	
IDIS302	Ethical Issues in Business and Society	3	
IDIS304 or IDIS301	Arts and Ideas or World Cultures	3	IDIS304 (Arts and Ideas) will meet the lower division fine arts general education requirement, if necessary
Program Requirements (39 Credits)			
COSC305	Networking: Theory and Application	4	
COSC307	Administering and Supporting a Network Operation	4	
COSC310	Computer Programming II	3	Requires a Computer Programming course as a prerequisite.
COSC401	The TCI/IP Protocol Suite	3	
COSC403	Advanced and Object-Oriented Programming	3	
COSC416	Advanced Website Development	3	
COSC425	Database Design and Implementation	4	
COSC430	Information Assurance	3	
COSC432	Network Security	3	
COSC490	Practicum	3	
MATH321	Mathematical Structures for Information Technology	3	
WRIT313	Writing for Information Systems	3	
Additional Electives (12 credits)			
Total to be taken at UB:		60	

APPENDIX I - COURSE ARTICULATIONS (Information Technology – Programming Option)

The following pages indicate the course-to-course equivalency, as agreed upon within the articulation agreements.

Course to course articulation, including General Education

Howard CC Course	Credits	UB Equivalent	Explanation/Notes
CMSY105	3	Lower Level Elective	
CMSY121	3	Lower Level Elective	
CMSY181	4	Lower Level Elective	
CMSY190	3	Lower Level Elective	
CMSY199	3	Lower Level Elective	
CMSY250	3	Lower Level Elective	
CMSY218 OR CMSY219 OR (CMSY134/142/143) OR CMSY175 OR CMSY195 OR CMSY203 OR CMSY248 OR CMSY249 OR CMSY295 OR CMSY217 OR MATH121 OR MATH138	6-7	Lower Level Elective	
ENGL121	3	Lower Level Elective	Satisfies the English Composition General Education Area
ENGL122	3	Lower Level Elective	
Literature Core Course	3	Lower Level Elective	Satisfies the Arts and Humanities General Education Area
Fine Arts Core Course	3	Lower Level Elective	Satisfies the Arts and Humanities General Education Area
SPCH105	3	Lower Level Elective	Satisfies the Arts and Humanities General Education Area
History Core Course	3	Lower Level Elective	Satisfies the Arts and Humanities General Education Area and Satisfies the UB History or Philosophy Requirement
Social Behavioral Core Course	6	Lower Level Elective	Satisfies the Social and Behavioral Science General Education Area
Science Core Course	7-8	Lower Level Elective	Satisfies the Science General Education Area
MATH131	3	Lower Level Elective	Satisfies the Math General Education Area
CMSY129	3	Lower Level Elective	
TOTAL	*62-64	*A maximum of 60 credits will transfer to UB	

APPENDIX II : UPPER DIVISION REQUIREMENTS

All Howard CC transfer students will be required to take a minimum of 60 credits of upper division coursework at UB.

Completion of the Applied Information Technology program at UB requires students to successfully complete the following course work:

Course Number	Course Title	Credit Hours	Explanation
Upper Division General Education Core Requirements (9 Credits)			
IDIS300	Ideas in Writing	3	
IDIS302	Ethical Issues in Business and Society	3	
IDIS304 or IDIS301	Arts and Ideas or World Cultures	3	IDIS304 (Arts and Ideas) will meet the lower division fine arts general education requirement, if necessary
Program Requirements (51 Credits)			
COSC305	Networking: Theory and Application	4	
COSC307	Administering and Supporting a Network Operation	4	
COSC310	Computer Programming II	3	Requires a Computer Programming course as a prerequisite.
COSC401	The TCI/IP Protocol Suite	3	
COSC403	Advanced and Object-Oriented Programming	3	
COSC416	Advanced Website Development	3	
COSC425	Database Design and Implementation	4	
COSC430	Information Assurance	3	
COSC432	Network Security	3	
COSC490	Practicum	3	
MATH321	Mathematical Structures for Information Technology	3	
WRIT313	Writing for Information Systems	3	
COSC305	Networking: Theory and Application	4	
COSC307	Administering and Supporting a Network Operation	4	
COSC310	Computer Programming II	3	Requires a Computer Programming course as a prerequisite.
COSC401	The TCI/IP Protocol Suite	3	
COSC403	Advanced and Object-Oriented Programming	3	
Additional Electives (9 credits)			
Total to be taken at UB:		60	

APPENDIX I - COURSE ARTICULATIONS (Information Technology – Cisco Option)

The following pages indicate the course-to-course equivalency, as agreed upon within the articulation agreements.

Course to course articulation, including General Education

Howard CC Course	Credits	UB Equivalent	Explanation/Notes
CMSY105	3	Lower Level Elective	
CMSY106	3	Lower Level Elective	
CMSY121	3	Lower Level Elective	
CMSY270	3	Lower Level Elective	
CMSY271	3	Lower Level Elective	
CMSY272	3	Lower Level Elective	
MATH121 OR MATH138	3-4	Lower Level Elective	
CMSY218 OR CMSY219 OR (CMSY134/142/143) CMSY110 OR CMSY121 OR CMSY1162 OR CMSY190 OR CMSY250 OR CMSY255 OR any MSFT course	3	Lower Level Elective	
ENGL121	3	Lower Level Elective	Satisfies the English Composition General Education Area
ENGL122	3	Lower Level Elective	
Literature Core Course	3	Lower Level Elective	Satisfies the Arts and Humanities General Education Area
Fine Arts Core Course	3	Lower Level Elective	Satisfies the Arts and Humanities General Education Area
SPCH105	3	Lower Level Elective	Satisfies the Arts and Humanities General Education Area
History Core Course	3	Lower Level Elective	Satisfies the Arts and Humanities General Education Area and Satisfies the UB History or Philosophy Requirement
Social Behavioral Core Course	6	Lower Level Elective	Satisfies the Social and Behavioral Science General Education Area
Science Core Course	7-8	Lower Level Elective	Satisfies the Science General Education Area
MATH131	3	Lower Level Elective	Satisfies the Math General Education Area
CMSY129	3	Lower Level Elective	
TOTAL	**61-63***		

*A maximum of 60 credits will transfer to UB

APPENDIX II : UPPER DIVISION REQUIREMENTS

All Howard CC transfer students will be required to take a minimum of 60 credits of upper division coursework at UB.

Completion of the Applied Information Technology program at UB requires students to successfully complete the following course work:

Course Number	Course Title	Credit Hours	Explanation
Upper Division General Education Core Requirements (9 Credits)			
IDIS300	Ideas in Writing	3	
IDIS302	Ethical Issues in Business and Society	3	
IDIS304 or IDIS301	Arts and Ideas or World Cultures	3	IDIS304 (Arts and Ideas) will meet the lower division fine arts general education requirement, if necessary
Program Requirements (51 Credits)			
COSC305	Networking: Theory and Application	4	
COSC307	Administering and Supporting a Network Operation	4	
COSC310	Computer Programming II	3	Requires a Computer Programming course as a prerequisite.
COSC401	The TCI/IP Protocol Suite	3	
COSC403	Advanced and Object-Oriented Programming	3	
COSC416	Advanced Website Development	3	
COSC425	Database Design and Implementation	4	
COSC430	Information Assurance	3	
COSC432	Network Security	3	
COSC490	Practicum	3	
MATH321	Mathematical Structures for Information Technology	3	
WRIT313	Writing for Information Systems	3	
COSC305	Networking: Theory and Application	4	
COSC307	Administering and Supporting a Network Operation	4	
COSC310	Computer Programming II	3	Requires a Computer Programming course as a prerequisite.
COSC401	The TCI/IP Protocol Suite	3	
COSC403	Advanced and Object-Oriented Programming	3	
Additional Electives (9 credits)			
Total to be taken at UB:		60	