



**B.S. Degree in Biomedical Informatics**  
**Articulation Agreement between Borough of Manhattan Community College**  
**and New York City College of Technology, CUNY**

**A. SENDING AND RECEIVING INSTITUTIONS**

**Sending College:** Borough of Manhattan Community College (BMCC)  
**Department:** Allied Health Sciences Department  
**Program:** HEALTH INFORMATION TECHNOLOGY  
**Degree:** Associate in Applied Science (AAS)

**Receiving College:** New York City College of Technology (NYCCT)  
**Department:** Biological Sciences Department  
**Program:** BIOMEDICAL INFORMATICS  
**Degree:** Bachelor of Science (BS)

**B. ADMISSION REQUIREMENTS FOR SENIOR COLLEGE PROGRAM**

- The A.A.S in Health Information Technology degree and a minimum GPA of 2.50

Students who wish to transfer but do not meet all of the above requirements or are unable to enroll within two years after graduation will receive admission consideration under our standard transfer credit policies.

**Total transfer credit granted toward baccalaureate degree: 60**

**Total additional credits required by senior college to complete baccalaureate degree: 60**

The Biological Sciences Department of New York City College of Technology (NYCCT) agrees to accept into the BS program in Biomedical Informatics students from Borough of Manhattan Community College (BMCC) who successfully complete an associate in applied science in Health Information Technology (HIT). Completion of the curriculum includes the attainment of at least a 2.5 overall grade-point average.

NYCCT and BMCC agree to offer the courses noted in the BS program in Biomedical Informatics (NYCCT) and AAS Health Information Technology program (BMCC), as described in this agreement, and as outlined in each college's course catalog. Each college agrees to notify the other if course numbers, content, or catalog descriptions change. Furthermore, the parties involved understand that any change in course number, content, or catalog description may require a modification to this agreement.

### C. COURSE EQUIVALENCIES AND TRANSFER CREDIT AWARDED

Students transferring from BMCC with an AAS in Health Information Technology shall enter the BS Program in Biomedical Informatics at NYCCT as juniors. The following courses, totaling 67 credits, will be transferred to NYCCT.

#### ASSOCIATES IN APPLIED SCIENCE IN HEALTH INFORMATION TECHNOLOGY

<b>COMMON CORE</b>		
<b><i>Required Common Core</i></b>		
English Composition		6
Mathematical and Quantitative Reasoning	MAT 150: Introduction to Statistics	4
Life/Physical Sciences	BIO 425: Anatomy & Physiology I	4
<i>Total Required Common Core</i>		14
<b><i>Flexible Core</i></b>		
Creative Expression	SPE 100: Fundamentals of Speech or SPE 102: Fundamentals of Speech for Non-Native Speakers	3
Scientific World	BIO 426: Anatomy & Physiology II	4
Individual and Society	PSY 100: General Psychology	3
<i>Total Flexible Core</i>		10
<i>Total Common Core</i>		24
<b>CURRICULUM REQUIREMENTS</b>		
HIT 103	Medical Terminology I	3
HIT 106	Pathology of Diseases I	3
HIT 107	Health Record Systems	2
HIT 108	Health Data Information, Storage, and Retrieval	3
HIT 203	Medical Terminology II	3
HIT 204	Health Statistics	2
HIT 207	Coding and Classifications Systems I	2
HIT 208	Pathology of Diseases II	3
HIT 210	Professional Practice Experience I	3
HIT 331	HIM Medical/Legal Applications	2
HIT 332	Quality Management and Improvement	2
HIT 333	Coding and Classification Systems II	2
HIT 421	Coding and Classification Systems III	2
HIT 422	Health Care Delivery Systems	1
HIT 423	Management in the HIM Department	2
HIT 430	Professional Practice Experience II	4
CIS 207	Healthcare Information Technologies and Management Systems	4
<i>Total Curriculum Requirements</i>		43
<b>Total Program Credits</b>		<b>67</b>

TOTAL NUMBER OF CREDITS TRANSFERRED

67

#### D. SENIOR COLLEGE UPPER DIVISION COURSES REMAINING FOR BS DEGREE

Students transferring to the BS program in Biomedical Informatics at NYCCT from the AAS program in HIT at BMCC will be required to satisfactorily complete the following courses (totaling 60 credits) at NYCCT.

<b>COMMON CORE &amp; COLLEGE OPTION REQUIREMENTS</b>		
World Culture and Global Issues	any course in approved list	3
U.S. Experience in its Diversity	any course in approved list	3
Interdisciplinary LAS Course	any course in approved list	3
<i>Total Common Core &amp; College Option Requirements</i>		<b>9</b>
<b>CURRICULUM REQUIREMENTS</b>		
PHIL 2203	Health Care Ethics	3
MAT 1475	MAT 1475: Calculus I <sup>1</sup>	4
CST 1101	Problem Solving with Computer Programming	3
CST 1201	Programming Fundamentals	3
CST 1204	Database Systems Fundamentals	3
BIO 3620	Molecular and Cell Biology	4
BIO 3350	Bioinformatics I	4
BIO 3352	Bioinformatics II	4
BIO 3354	Computational Genomics	3
BIO 3356	Molecular Modeling in Biology	3
MED 3910	Internship/Research in Biomedical Informatics	5
<i>Total Curriculum Requirements</i>		<b>39</b>
<b>ELECTIVES</b>		
Choose from the list of approved electives in the two elective areas:		
<ul style="list-style-type: none"> <li>• Science and Health Professions Elective Area</li> <li>• Computation and Computer Systems Elective Area</li> </ul>		12
<i>Total Elective Credits</i>		<b>12</b>
<b>Total Program Credits</b>		<b>60</b>

**TOTAL DEGREE CREDITS TO BE TAKEN AT NYCCT** **60**

**TOTAL CREDITS FOR THE BS DEGREE** **127**

In order to satisfy the B.S. degree requirements, students must select the appropriate general education common core and flexible core courses to satisfy CUNY pathway requirements for the degree program.

<sup>1</sup> Students without the requisite math background to enter MAT 1475 must take MAT 1175, MAT 1275 and/or, MAT 1375 in preparation, depending on initial placement. This will increase the number of required credits for the degree by 4-12.

## **E. ARTICULATION AGREEMENT FOLLOW-UP PROCEDURES**

### **1. Procedures for reviewing, updating modifying or terminating agreement:**

When either of the degree programs involved in this agreement undergoes a change, the agreement will be reviewed and revised accordingly by faculty from each institution's respective departments or programs, selected by their Chairpersons and program directors.

### **2. Procedures for evaluating the effectiveness of this agreement and tracking the number of students who transfer from BMCC to NYCCT under terms of this articulation agreement and their success:**

Each year New York City College of Technology (NYCCT) will provide Borough of Manhattan Community College (BMCC) the following information: a) the number of BMCC graduates who applied to the program; b) the number of BMCC students who were accepted into the program; c) and the number of BMCC students who enrolled; d) the aggregate GPA of these enrolled students at NYCCT.

### **3. Sending and Receiving College procedures for publicizing agreement (e.g., college catalogs, transfer advisors, websites, etc.):**

- This articulation agreement will be publicized on the Borough of Manhattan Community College's website, and New York City College of Technology website.
- Transfer advisors at BMCC will promote this agreement with eligible students.

**Effective Agreement Date: Spring 2015**