FAIRLEIGH DICKINSON UNIVERSITY

Fortiter et Suaviter

Becton College of the Arts and Sciences
Math, Computer Science, and Physics
Florham Campus
Florham Park, NJ

CCM
COUNTY COLLEGE of MORRIS

Division of Business, Mathematics,
Engineering and Technologies
Department of Information Technologies
Randolph, NJ

Articulation Agreement

Articulation Agreement

On this 7th day of September, 2016 Fairleigh Dickinson University ("FDU") and County College of Morris ("College") enter into this Articulation Agreement ("Agreement") and hereby agree to establish a program that enables certain qualified students from College to attend FDU in certain undergraduate degree programs and specific graduate programs (hereafter defined as the "Program").

FOR AND IN CONSIDERATION of the mutual covenants and Agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto do hereby covenant and agree as follows:

Transfer Terms:
The parties agree that those individuals who receive a County College of Morris A.S. degree in Computer Science, and meet all of the criteria listed below, will be accepted at Fairleigh Dickinson University into the B.S. in Computer Science.

Fairleigh Dickinson University, through its B.S. in Computer Science degree program currently offered on the Florham Campus in the Becton College of the Arts and Sciences, Department of Math, Computer Science, & Physics agrees to:

- accept up to 64 transfer credits as part of the A.S. in Computer Science offered by County College of Morris to meet the course requirements in the B.S. as outlined in Appendix A, with a grade of "C" or better (Appendix A will be revised periodically, or as necessary to reflect curriculum changes).
- enroll students into the B.S. in Computer Science degree program using the curriculum requirements that are in effect at the time of their entry into Fairleigh Dickinson University.

Criteria:
Admissions standards for students entering into the Program from College will be consistent with FDU policies.

The additional criteria that shall be met by students seeking to transfer credits from the A.S. Computer Science at County College of Morris to the B.S. in Computer Science program are as follows:
- The student will have received an A.S. in Computer Science from County College of Morris.
- The student's cumulative grade point ratio at County College of Morris must be 2.0 or higher.
- A grade of "C", or better, is required in all courses to be applied toward the bachelor's degree.
- Students will adhere to Fairleigh Dickinson University's B.S. in Computer Science degree curriculum requirements that are in effect at the time of their entry into Fairleigh Dickinson University.
- Students must submit a formal application to Fairleigh Dickinson University.

- Students will be required to meet all of the Fairleigh Dickinson University transfer requirements in effect at the time of their application to the University.

Financial:

All students will be eligible for a 40% reduction from the appropriate FDU tuition rate upon completion of the A.S. degree at County College of Morris and enrollment in the B.S. in Computer Science program at Fairleigh Dickinson University with the following exceptions:

- Students with a cumulative grade point average of 3.50 or greater will receive a $1,000 merit scholarship per year ($500 per semester) in addition to the 40% reduction.
- Members of the Phi Theta Kappa International Honor Society will receive an $18,000 per year ($9,000 per semester) academic scholarship in lieu of the 40% reduction with submission of a copy of a membership certificate.
- Students who qualify for NJ STARS II will receive up to $2,500 in scholarship dollars from the state of New Jersey in addition to the 40% reduction or Phi Theta Kappa scholarship.
- Students electing to reside on the Florham Campus will receive a $1,500 per year ($750 per semester) housing grant.
- All reductions, with the exception of the housing grant are from tuition only, and not applicable to fees, room or board which will be the responsibility of the individual student when enrolled at FDU.

Responsibilities:

Both County College of Morris and Fairleigh Dickinson University agree to the following responsibilities:

- Both parties may inform potential students about the program. Examples of possible informational activities may include, but are not limited to, media announcements, brochures or fliers, information sessions for students at County College of Morris.
- Individualized advising will be provided for students interested in Fairleigh Dickinson's B.S. in Computer Science.
  - FDU Advisement Contact: Dr. Laila Khreisat, Chairperson, Department of Math, Computer Science, and Physics, khreisat@fdu.edu, 973-443-8688

Term
    a. This Agreement shall commence on September 1, 2016 and shall terminate on June 30, 2023 ("Term").
    b. This Agreement may be terminated as follows:
        i. Either party may terminate this Agreement if the other party breaches any term, or provision of this Agreement which breach is not cured within thirty (30) days after receipt of written notice of the breach (or, in the case of any breach which cannot reasonably be expected to be cured within thirty (30) days, if the breaching party fails to commence such cure within thirty (30) days or fails to prosecute such cure to completion with due diligence within ninety (90) days). If practical, the parties shall make

reasonable efforts to delay the effect on any involved student(s) for one semester; or

    ii.   By either party upon prior written notice for any reason. Such termination shall be effective at the close of the then current semester.

Notice. Every notice required or permitted under this Agreement shall, unless otherwise specifically provided herein, be given in writing and may be sent by either United States Postal Service Certified Mail, return receipt requested, or by reputable overnight courier, provided that such courier obtains and makes available to its customers evidence of delivery. All notices shall be addressed by the party giving, making or sending the notice to the other party at their address set forth below, or to such other address as either party may designate from time to time by written notice.

Notice shall be deemed to be given upon receipt, provided, however, that in the event a party shall refuse to accept delivery, the notice shall nevertheless be deemed to be given upon the date of refusal to accept delivery. Notwithstanding the above, a notice of change of address shall not be effective until received.

Fairleigh Dickinson University	County College of Morris
1000 River Road	214 Center Grove Road
Teaneck, New Jersey 07666	Randolph, NJ 07869-2086
Attn: General Counsel	Attn: President's Office

Non Discrimination. The parties to this Agreement hereby agree that they shall not unlawfully discriminate on the basis of race, color, creed, national origin, ancestry, disability, marital status, gender, sexual orientation, handicap, age, pregnancy status or veteran status in connection with this Agreement and that each shall fully comply with all Federal and State statutes, and all rules and regulations promulgated thereunder, concerning discrimination in connection with their respective obligations pursuant to this Agreement.

FERPA. College acknowledges that it may obtain contact information for FDU student(s) and/or FDU faculty. College shall only use the obtained contact information to fulfill its obligations under this Agreement and agrees not to release any information in the student or faculty profile to any third party. To the extent College is in possession of any student record or information, College shall treat same in accordance with all applicable federal, state and local laws, including, but not limited to the Family Educational Rights and Privacy Act.

Miscellaneous. The Chair of FDU's Math, Computer Science, and Physics Department, Becton College, shall serve as the main contact for the Program.

This Agreement shall be governed and controlled by the laws of the State of New Jersey and any litigation with respect thereto shall be brought in the courts of the State of New Jersey. Both parties consents and submits to the jurisdiction of the courts located within the State of New Jersey. If any provision of this Agreement is declared invalid under any applicable law, such provision shall be inapplicable and deemed omitted, but the remaining provisions of this Agreement, including the remaining default remedies, shall be given effect in accordance with the manifest intent of the parties hereto.

Notwithstanding the foregoing, prior to instituting any lawsuit, the parties shall seek to resolve any dispute by negotiation and correspondence between the main contacts listed above.
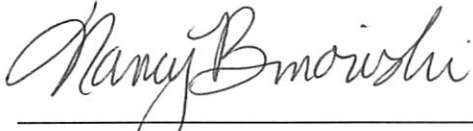
General Provisions:
    a. Neither Party shall have the right to assign this Agreement without the prior written consent of the other Party.
    b. This Agreement constitutes the entire agreement of the Parties with respect to the subject to matter hereof. No modification hereof shall be binding upon any of the Parties hereto unless made in writing and signed by the Parties.
    c. The Parties are not, and shall not be, considered as partners or joint ventures. The execution of this Agreement does not, and shall not, constitute neither a partnership nor a principal/agent relationship between the Parties hereto.
    d. This Agreement shall be governed and controlled by the laws of the State of New Jersey.
    e. If any provision of this Agreement is declared invalid under any applicable law, such provision shall be inapplicable and deemed omitted, but the remaining provisions of this Agreement, including the remaining default remedies, shall be given effect in accordance with the manifest intent of the parties hereto.

Signatures:

The signatures of the authorized representatives identified below indicate agreement to the terms set forth herein.
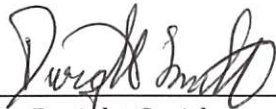
County College of Morris

Dr. Nancy Binowski, Chairperson
Department of Information Technologies

Dr. Patrick Enright
Dean, Division of Business, Mathematics,
Engineering and Technologies

Dr. Dwight Smith
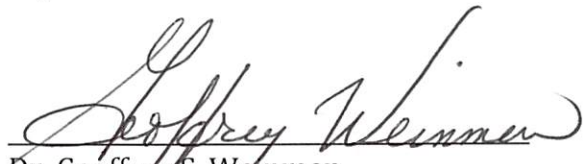Vice President of Academic Affairs

Dr. Anthony J. Iacono
President
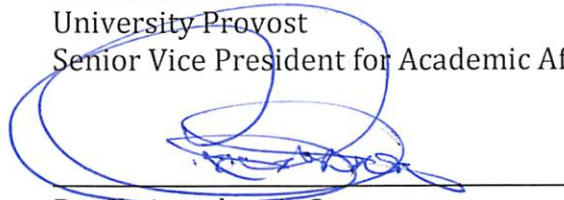
Fairleigh Dickinson University

Dr. Laila Khreisat, Chairperson
Department of Math, Computer Science, &
Physics

Dr. Geoffrey S. Weinman
Dean, Maxwell Becton College of Arts
and Sciences

Dr. Gillian Small
University Provost
Senior Vice President for Academic Affairs

Dr. Christopher A. Capuano
President

APPENDIX A
CCM to FDU Course Equivalencies

Course Code	Course Name	Cr.	Course Code	Course Name	Cr.
ENG 111	English Composition I	3	ENGW1101	College Writing Workshop	3
ENG 112	English Composition II	3	ENGW1102	Research Writing Workshop	3
MAT 123	Precalculus	4	MATH 1107	Precalculus	4
MAT 131	Analytic Geometry & Calculus I	4	MAT 1203	Calculus I/Cognate Math Requirement	4
MAT 132	Analytic Geometry & Calculus II	4	MATH 2202	Calculus II/Cognate Math Requirement	4
	Gen Ed/Social Science	3		Tier I: Social & Behavioral Sciences	3
	Gen Ed/Diversity	3		Tier II: Global and Comparative Studies	3
	Gen Ed/Humanities	3		Tier I:Humanities	3
	Lab Science Sequence: Recommended PHY125/126	4		Tier I: Lab Science (PHYS2003/2013)	4
	Lab Science Sequence Recommended PHY127/128	4		Tier II: Math, Science, & Technology (PHYS2004/2014)	4
CMP 123	Systems Analysis and Design	3		Major Elective	3
CMP 128	Computer Science I	3	CSCI 1205	Intro to Computer Programming	3
CMP 129	Computer Science II (Java)	3	CSCI 2215	Intro to Computer Science	3
CMP 246	Operating Systems	3		Major Elective	3
CMP 230	Computer Architecture & Assembly Language	3	CSCI 2247	Assembly Language Programming/Major Elective	3
CMP 233	Data Structures and Algorithms	3	CSCI 2216	Introduction to Computer Science II	3
MAT 225	Discrete Mathematics	4	CSCI 2255	Discrete Structures	4
	CIS Elective	3		Major Elective	3
	CIS Elective	3		Free Elective	3

Becton College General Education Requirements

I. First Tier*

A. ENGW1101 = ENG111 English Composition I	3
ENGW1102 = ENG112 English Composition II	3
B. MATH 1107 = MAT123 Precalculus	4
D. (Any) Social Science	3
E. (Any) Humanities Elective	3
F. Lab Science; Recommended PHY125/126	4

II. Second Tier*

A. Global and Comparative Studies = Diversity Elective	3
B. Math, Science and Technology = Lab Science Sequence Recommended PHY 127/128	4

Total: (27 cr.)

III. University Requirements

UNIV1001 = Waived

UNIV1002 = Waived

* In cases where students have taken General Education courses at CCM other than those detailed in Appendix A, courses will be applied to the relevant area of the FDU checksheet in a manner consistent with the course equivalency noted in NJ Transfer (www.njtransfer.org).

FDU Major Requirements

CSCI 1205 Intro to Computer Programming = CMP 128	3
CSCI 2215 Intro to Computer Science = CMP 129	3
CSCI 2216 Intro to Computer Science II = CMP 233	3
CSCI 2255 Discrete Structures = MAT 225	3
Major Electives (4 classes: CMP123, CMP246, CMP230, CIS Elective)	12

Cognate Requirements – Mathematics

MATH1203 = MAT 131 Analytic Geometry & Calculus I	4
MATH2202 = MAT 132 Analytic Geometry & Calculus II	4

Total:	32 cr.
All other courses will Fall under Free Electives	4 cr.

TOTAL for AA:		63 cr.
Total left to complete at FDU:		57 cr.

COURSES to complete at FDU

Tier I:

C. Modern Language	____ 1002	3
	____ 1008	1
G. Creative and Expressive Arts		3

Tier II:

B. Math, Science, and Technology	3
C. Arts and Humanities	3
D. Social & Behavioral Analysis	3
UNIV2001	3
UNIV2002	3
	(22 cr.)

Required Courses:

CSCI 2232 Data Structures	3
CSCI 3278 Operating Systems	3
CSCI 3304 Computer Organization	3
CSCI 3315 Software Design	3
CSCI 3371 (3 cr.) **or** MATH3303 (4 cr.)	3
CSCI 4391 Senior Project I and CSCI 4392 Senior Project II	
or CSCI 4498 Internship	3
CSCI 4999 Computer Science Assessment	0
Major Elective Courses	6

Cognate Requirements – Mathematics

MATH 3318 Differential Equations = MAT 131 **or**	3
MATH 3320 Linear Algebra = MAT132	
One MATH course above 2000 level	3-4
	(30-31 cr.)
Free Electives	4-5 cr.
TOTAL:	57 cr.

FDU/Becton College Degree - 120 Credits B.S. in Computer Science (Fall 2016)

County College of Morris

General Education Requirements (48-50 Credits)

I. First Tier: Regions of Learning (25-27 credits)

A. Written Communication (6 credits)
ENGW 1101 College Writing Workshop (3)   **ENG 111** (3)   **3**
ENGW 1102 Research Writing Workshop (3)   **ENG 112** (3)   **3**

B. Mathematics (3-4 credits)
MATH 1107 Precalculus (4)   **MAT 123**   **4**

C. Modern Language (3-4 credits)
1. Modern Language Component:
1002 (Beg. Language II) (3)
1008 (Beg. Language II) Practicum (1)
_____ Advanced Language (3)

D Social Behavioral Sciences
(Any) Social Science Elective (3)   **3**

E. Humanities
(Any) Humanities Elective (3)   **3**

F Laboratory Sciences
Rec: PHY125/126 (4)   **4**

G. Creative and Expressive Arts   (3)

II. Second Tier: Regions of Navigation and Exploration (15 credits)

A. Global and Comparative Studies   (3)
(Any) Diversity Elective (3)   **3**

B. Math, Science and Technology
Rec: PHY127/128 (3)   **4**
(3)

C. Arts and Humanities   (3)

D Social and Behavioral Analysis   (3)

III. University Requirements (8 credits)

UNIV 1001: Transitioning to University Life (1)   **Waived**
UNIV 1002: Preparing for Professional Life (1)   **Waived**
UNIV 2001: Cross-Cultural Perspectives (3)
UNIV 2002: Global Issues (3)

Major Requirements (42 - 48 credits plus 14 cognate credits)
(2.33 GPA Required)

Required Computer Science (30-31 credits)
CSCI 1205 Intro to Computer Programming (3)   **CMP 128**   **3**
CSCI 2215 Introduction to Computer Science (3)   **CMP 129**   **3**
CSCI 2232 Data Structures (3)
CSCI 2216 Introduction to Computer Science II (3)   **CMP 233**   **3**
CSCI 2255 Discrete Structures (3)   **MAT 225**   **3**
CSCI 3278 Operating Systems (3)
CSCI 3304 Computer Organization (3)
CSCI 3315 Software Design (3)
CSCI 3371 Computer Modeling & Simulation I (3)
or
MATH 3303 Probability and Statistics (4)
CSCI 4391 Senior Project 1 (1) **and**
CSCI 4392 Senior Project II (2)
or
CSCI 4498 Internship (3)
and
CSCI 4999 Computer Science Assessment (0)

Major Elective Courses (12-17 credits)
From 3000 level or higher
CSCI (3)   **CMP 123** Systems Analysis and Design   **3**
CSCI (3)   **CMP 230** Computer Architecture & Assembly Language   **3**
CSCI (3)   **CMP 246** Operating Systems   **3**
CSCI (3)   **CIS Elective**   **3**
CSCI .
CSCI

Cognate Requirements
Mathematics (14 credits)
MATH 1203 Calculus I (4)   **MAT 131**   **4**
MATH 2202 Calculus II (4)   **MAT 132**   **4**
MATH 3318 Differential Equations (3)
or
MATH 3220 Linear Algebra (3)
One course to be selected from offerings in mathematics above the level of 2000.
MATH _____

Free Electives
Minor and Elective Credits - All other courses will Fall under