MEMORANDUM OF UNDERSTANDING
HARFORD COMMUNITY COLLEGE & TOWSON UNIVERSITY
May 1, 2018

Biological Sciences (Cell and Molecular Biology Concentration) B.S. Degree

Harford Community College, Bel Air, Maryland, and Towson University, agree to follow the articulation of courses outlined in the articulation (course equivalency) document, for completion of requirements for the Bachelor of Science degree in Biological Sciences (Attachment A), which is attached to, and incorporated by reference into, this Memorandum of Understanding (MOU). The following principles guide the operation of this MOU, with the requirements for transfer in specific curricula set forth in Attachment A.

1. Towson University will accept a maximum number of 64 credits from Harford Community College as outlined in the Attachment A. The number of transferable credits specific to this program is reflected in Attachment A.

2. Students who have completed the Associate of Science Degree in the Biology program at Harford Community College may transfer into Towson University’s Biological Sciences: Cell and Molecular Biology concentration program with junior standing provided that the student has completed all courses identified on Attachment A (which is attached to, and incorporated by reference into, this MOU) with a cumulative GPA of 2.00 or higher. Courses completed at Harford Community College with 300 or 400 level Towson University course equivalencies will transfer as lower-level credit but will satisfy course content as indicated.

3. Only courses in which a grade of C (2.00) or better is earned will apply toward the major at Towson University.

4. In accordance with the MHEC transfer policy pertaining to general education requirements, Towson University will accept the completion of Harford Community College’s general education requirements (GenEds) and students will be required to complete courses at Towson University to satisfy the remaining University Core requirements as shown in Attachment A.

5. Towson University recognizes college-level experiential learning gained through previous work, military and/or volunteer service or life experience. Credit for prior learning may also be established through course challenge or standardized credit by examination.

6. Harford Community College students transferring to Towson University will be given every consideration for financial aid and will be eligible to compete for academic scholarships upon entrance to Towson University subject to stated scholarship deadlines.

7. Both Harford Community College and Towson University agree to work together to facilitate the transfer of students from Harford Community College to Towson University
to work cooperatively to insure the high quality of the programs at the respective institutions. Transfer of students will be in accordance with policies and procedures of both institutions, as they may be amended from time to time.

8. This MOU will be in effect initially for ten years, beginning spring 2018, with a review every two years by both parties. Any revisions the parties deem necessary must be evidenced in writing and signed by the authorized officials of each institution. The MOU may be terminated by either party for due cause and after adequate notice of not less than six months is given to the other party.

9. Towson University will establish procedures to provide information on the academic progress of Harford Community College students enrolled as part of this MOU.

10. This MOU, when signed, constitutes the entire agreement between the parties and supersedes all prior agreements and understandings between the parties respecting the matter hereof.

HARFORD COMMUNITY COLLEGE AND TOWSON UNIVERSITY

Dr. Steven Thomas  
Vice President for Academic Affairs  
Date 5.17.2018

Dr. Timothy Chandler  
Provost and Executive Vice-President for Academic Affairs  
Date 6/1/18
### Core Curriculum

#### Total Core in Transfer

22 credits

**Ethical Issue & Perspectives**

Diversity & Difference

The United States and the Nation

Metropolitan Environment

Biological & Physical Sciences

Social & Behavioral Sciences

Arts & Humanities

Creativity & Creative Development

Mathematics

English Composition

Towson Seminar

**Comments**

Tu equivalence

**Course ID**

**Course Title**

**HARFORD COMMUNITY COLLEGE**

**TOWSON UNIVERSITY - BIOLOGICAL SCIENCES B.S. DEGREE - CEL & MOLECULAR BIOLOGY CONCENTRATION**

Effective Spring 2018

1/5/2018
Students who REQUIRE pre-calculus should take MATH 109 (pre-calculus) to satisfy the General Education math requirement and MATH 203 (Calculus). As the program elective at HCC. Calculus is required to complete the A.S. degree at HCC and will satisfy the General Education math requirement and MATH.

To earn the baccalaureate degree in 120 credits, a maximum of 64 credits will be transferred to TU.

To satisfy the breadth requirement, students who take both courses at HCC will graduate with more than 60 credits, but will still

BIO 107 (General Zoology) and BIO 110 (Introduction to Plant Sciences). These courses transfer to TU as Biot 202 and Biot 205

• Biot 202 (Biodiversity). This course transfers as Biot 202 and will satisfy a breadth requirement for the major at TU. Students

choosing Biot 202 may need to take additional elective credit to meet the required 60 credits for degree at HCC.

Students who do not require pre-calculus will have 4 credits of program electives to take at HCC. The following options are suggested for

MATH 204.

Students entering to take the calculus-based physics sequence (PHYS 200 & 204 at HCC or PHYS 241 & 242 at TU) must take MATH 203 and

students transferring to HCC MATH 203 will satisfy Core 3 and the Program Math requirement at TU. Please note, however, that

your Program electives will depend on whether you are calculus-ready when you enter the Biology Associate of Science program at

HCC.

*Course Selection at HCC:

TOWSON UNIVERSITY - Biological Sciences B.S. Degree - Cel & Molecular Biology Concentration

HARFORD COMMUNITY COLLEGE - Biology A.S. Degree

Attachment A

Effective Spring 2018
Program Requirements To Be Completed At Towson

23-35 Units

Core Requirements To Be Completed At Towson

Townson University - Biological Science B.S. Degree - Cell & Molecular Biology Concentration

Harford Community College - Biology A.S. Degree

Effective Spring 2018

Attachment a
ANGLARIES COURSES: COMPLETED AT HARFORD CC

0 UNITS

THIS SATISFIES THE FREE ELECTIVE REQUIREMENT

IF BIOL 2211 AND BIOL 2222 WERE COMPLETED AS PART OF THE BREATH REUQIREMENT,

SUCCESSFULLY COMPLETE BIOL 491 OR BIOL 499.

SELECT ONE BIOLGY ELECTIVE FROM LISTS OF ELECTIVES IN ANY BIOLGY CONCENTRATION OR

FREE ELECTIVES:

0-4 UNITS

GENOMICS
MBBB335
MBBB305

BIOCHEMISTRY I
CHEN 351

DEVELOPMENTAL BIOLOGY
BIOL 463

Virology
BIOL 428

IMMUNOLOGY
BIOL 421

MICROBIOLOGY OF INFECTIOUS DISEASE
BIOL 420

ENVIRONMENTAL MICROBIOLOGY
BIOL 419

BIOTECHNOLOGY
BIOL 415

CANCER BIOLOGY
BIOL 411

HISTOLOGY
BIOL 360

MICROBIOLOGY
BIOL 318

MEDICAL MICROBIOLOGY OR
BIOL 315 OR

(6-8 UNITS)

SELECT TWO OF THE FOLLOWING:

BIOCHEMISTRY LAB
CHEN 356

CELL BIOLOGY LABORATORY
BIOL 412

MOLECULAR BIOLOGY LABORATORY
BIOL 410

GENETICS LABORATORY
BIOL 312

BIOL 312

SELECT ONE OF THE FOLLOWING:

(2 UNITS)

8-10 UNITS

ELECTIVE COURSES:

TOWSON UNIVERSITY - BIOLOGICAL SCIENCES B.S. DEGREE - CELL & MOLECULAR BIOLOGY CONCENTRATION

HARFORD COMMUNITY COLLEGE - BIOLOGY AS. DEGREE

Attachment a

Effective Spring 2018
Elective Credits at TU
Competition of Major Requirements at TU
Competition of Core at TU
50
Harford Biology A.S. Degree
Total Credits to B.S. Degree (120)

- 32 units of the bachelor's degree must be completed at the upper level (courses numbered 300 or above)
- A cumulative grade point average (GPA) of 2.0 is required
- A C (2.0) or higher is required in all major and minor courses

TOWSON UNIVERSITY - Biological Sciences B.S. Degree - Cell & Molecular Biology Concentration
HARFORD COMMUNITY COLLEGE - Biology A.S. Degree