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

Biological Sciences (Functional Biology of Animals 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: Functional Biology of Animals 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

[Signature]
Dr. Steven Thomas
Vice President for Academic Affairs
Date 5/17/2018

[Signature]
Dr. Timothy Chandler
Provost and Executive Vice-President for Academic Affairs
Date 6/1/2018
**Course Selection Notes**

*See course selection notes.*

64 Credit Minimum. 5-7 Core curriculum units must be completed at Towson University: 4. Creativity; 9. Advanced Writing Seminars; 1. Metropolitan Perspectives; 12. Global Perspectives; 14. Ethical Issues.

<table>
<thead>
<tr>
<th>Minimum Credits in Transfer</th>
<th>64</th>
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<tbody>
<tr>
<td>Total Program Requirements at Host</td>
<td>107</td>
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**Elective**

*Can be fulfilled by Physical Education Credit.*

| Course ID# | Course Title | Credits | CORE | 4 credits
|-------------|--------------|---------|------|----------
| 2412        | Microeconomics | 3.0    | 1.2  | ECON 121 |
| 2212        | Principles of Micro Economics | 3.0    | 1.2  | ECON 121 |
| 2213        | Principles of Macroeconomics | 3.0    | 1.2  | ECON 223 |

**Ethical Issues & Perspectives**

*Can be fulfilled by Art & Humanities (6H), Behavioral Science (6B).*

| Course ID# | Course Title | Credits | CORE | 6 credits
|-------------|--------------|---------|------|----------
| 2311        | General Chemistry (41) | 4.0    | 2.0  | CHEM 112 |
| 2312        | General Chemistry (41) | 4.0    | 2.0  | CHEM 112 |
| 2313        | General Chemistry (41) | 4.0    | 2.0  | CHEM 112 |

**Total Credit in Transfer**

| Credits | 27 |

**TOWSON UNIVERSITY**

**TOWSON UNIVERSITY - Biological Sciences B.S. Degree - Functional Biology of Animals Concentration**

**HARFORD COMMUNITY COLLEGE**

**TOWSON UNIVERSITY - Biological Sciences B.A. Degree - Functional Biology of Animals Concentration**
Students who REQUIRE pre-calculus should take MATH 109 (pre-Calculus) to satisfy the general education math requirement and MATH 203 (Calculus I) as the program elective at HCC. Calculus is required to complete the A.S. degree at HCC and will satisfy the Associate Math requirement of the major at TU.

Students transferring with only BIO 107 or BIO 110 will need to complete either BIO 205 or BIO 210 at the breadth requirement. Students transferring with only BIO 107 or BIO 110 will need to complete either BIO 205 or BIO 210 at the breadth requirement. Students transferring with only BIO 107 or BIO 110 will need to complete either BIO 205 or BIO 210 at the breadth requirement. This course transfers as BIO 108 and will satisfy a breadth requirement for the major at TU. Students transferring with only BIO 107 or BIO 110 will need to complete either BIO 205 or BIO 210 at the breadth requirement. Students transferring with only BIO 107 or BIO 110 will need to complete either BIO 205 or BIO 210 at the breadth requirement.

Students who do not require pre-calculus will have 4 credits of program electives to take at HCC (depending on whether MATH 203 or MATH 204 was taken). The following options are suggested for satisfying the program elective:

To satisfy the calculus-based physics sequence (PHYS 200 & 204 at HCC or PHYS 241 & 242 at TU) students must take MATH 203 and MATH 204. Students who do NOT require pre-calculus should take MATH 203 (Calculus I) or MATH 204 (Calculus II) as the program elective at HCC.

Choosing your program electives will depend on whether you are calculus-ready when you enter the Biology program at HCC.

*Course Selection at HCC:

TOWSON UNIVERSITY - Biological Sciences B.S. Degree - Functional Biology or Animals Concentration

HARFORD COMMUNITY COLLEGE - Biology A.S. Degree

Attachment A

5/1/2018

Effective Spring 2018
ANIMAL PHYSIOLOGY

OR

HUMAN ANATOMY & PHYSIOLOGY II LAB

HUMAN ANATOMY & PHYSIOLOGY I LAB

AND

SELECT ONE OF THE FOLLOWING:

- MOLECULAR BIOLOGY
  - BIOL 409

- CELL BIOLOGY
  - BIOL 408

- MOLECULAR ECOLOGY, EVOLUTION & CONSERVATION
  - BIOL 405

SELECT ONE OF THE FOLLOWING:

- BIOLOGY
  - BIOL 208

- GENERAL ZOOLOGY
  - BIOL 207

- GENERAL BOTANY AND
  - BIOL 205A

(IF BIOL 207 or BIOL 208 were not taken at HCC)

8-20 UNITS

BREADTH COURSES:

EDUCATIONAL AND CAREER PLANNING FOR THE B I O L O G I S T

- BIOL 204

FOUNDATION COURSES:

Program Requirements to be Completed at Towson

22-33 UNITS

Core Requirements to be Completed at Towson

Towson University - Biological Sciences B.S. Degree - Functional Biology of Animals Concentration

HARFORD COMMUNITY COLLEGE - BIOLOGY A.S. DEGREE

Attachment A

Effective Spring 2018

5/7/2018
Elective Credits at TU

Completion of Major Requirements at TU

Completion of Core at TU

Hartford Biology A.S. Degree

Total Credits to B.S. Degree

(120)

32 units of the baccalaureate 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

Additional Bachelor Degree Requirements

ACCUPLACER COUPLES: COMPLETED AT HARFORD CC

SUCCESSFULLY COMPLETE B IOL 491 OR BIOL 499

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

FREE ELECTIVE

B IOL 390 OR

B IOL 335 OR

MEDICAL MICROBIOLOGY OR

ELECTRON MICROSCOPY

If you choose B IOL 335 to satisfy the breadth area, choose two courses from the list below.

If you choose the B IOL 227/228 sequence to satisfy the breadth area, choose one course from the list below.

SELECTED ELECTIVE

ADVANCED PHYSIOLOGY

ELECTIVE

(2-8 UNITS)

ELECTIVE COURSES:

TOWSON UNIVERSITY - BIOLOGICAL SCIENCES B.S. DEGREE - FUNCTIONAL BIOLOGY OR ANIMALS CONCENTRATION

HARTFORD COMMUNITY COLLEGE - BIOLOGY A.S. DEGREE

Attachment A

Effective Spring 2013

9/1/2013