

HARFORD COMMUNITY COLLEGE - COMPUTER SCIENCE A.S. DEGREE
TOWSON UNIVERSITY/ COMPUTER SCIENCE B.S. DEGREE

| HARFORD COMMUNITY COLLEGE | | | TOWSON UNIVERSITY | | | |
|--|---|--------------|----------------------------|--|-------------------------------------|--------------|
| COURSE # | COURSE TITLE | CRS. | TU EQUIVALENCY | CORE | COMMENTS | COURSE ID# |
| | | | | 1. | Towson Seminar | |
| ENG 101 | English Composition | 3 | ENGL 102 | 2. | English Composition | 2348 |
| MATH 203 | Calculus I | 4 | MATH 273 | 3. | Mathematics | 4407 |
| | | | | 4. | Creativity & Creative Development | |
| **GH | Arts/Humanities Elective (GH) | 3 | Depends on choice. | 5. | Arts & Humanities | |
| **GB | Behavioral/Social Science Elective (GB) | 3 | Depends on choice. | 6. | Social & Behavioral Sciences | |
| *BIO/PHSC | Biological/Physical Science Elective | 4 | Depends on choice. | 7. | Biological & Physical Science w/Lab | |
| *BIO/PHSC | Biological/Physical Science Elective | 3-4 | Depends on choice. | 8. | Biological & Physical Science | |
| | | | | 9. | Advanced Writing Seminar | |
| | | | | 10. | Metropolitan Perspectives | |
| **GB | Behavioral/Social Science Elective (GB) | 3 | Depends on choice. | 11. | The United States as a Nation | |
| | | | | 12. | Global Perspectives | |
| **GH | Arts/Humanities Elective (GH) | 3 | Depends on choice. | 13. | Diversity & Difference | |
| | | | | 14. | Ethical Issues & Perspectives | |
| Total CORE in Transfer | | 26-27 | | | | |
| CIS 205 | Intro Visual Basic.Net or Other CIS programming language | 4 | CIS 265 COSC | Equivalency depends on student choice. | | 1348 |
| CIS 115 | Fundamentals of Programming | 3 | COSC 175 | | | 1335 |
| CIS 201 | Assembly Programming Language | 4 | COSC TLL | | | 1349 |
| CIS 214 | Java Programming Language | 4 | COSC TLL | | | 10186 |
| CIS 221 | C++ Programming | 4 | COSC TLL | | | 10186 |
| CSI 131 | Computer Science I | 4 | COSC 236 | | | 1344 |
| CSI 132 | Computer Science II | 4 | COSC 237 | | | 1345 |
| MATH 204 | Calculus II | 4 | MATH 274 | | | 4408 |
| MATH 206 Or MATH 217 | Calculus III Or Linear Algebra | 4 | MATH 275 Or MATH 265 | | | 4409 4403 |
| MATH 210 | Discrete Structures | 3 | MATH263 | | | 4401 |
| | Physical Education Fitness Elective | 1 | PHEA TLL | | | 10564 |
| | Physical Education Elective | 1 | PHEA TLL | | | 10564 |
| Program Requirements at Harford | | 40 | | | | |
| Total Program Requirements at Harford | | 66-67 | | | | |
| Total Credits in Transfer | | 64 | | | | |

64 credit transfer maximum. 18 Core Curriculum units must be completed at Towson University: 1, 4, 9, 10, 12 and 14.

*BIO 120 and BIO 121 or CHEM 111 and CHEM 112 or PHYS 203 and PHYS 204.

** HCC students must complete one 3-credit Diversity course. It is recommended students select a course from the approved list on Diversity courses found in the HCC catalog. GB and GH choices must be from different disciplines.

***Requires Course Directive/Exception for Core placement.

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Program requirements at Towson University: 44-48

| | | | |
|-----------------|---|-------|---|
| MATH 330 | Introduction to Statistical Methods | (4) | |
| COMM 131 | Fundamentals of Speech Communication | (3) | |
| COSC 290 | Principles of Computer Organization | (4) | |
| COSC 350 | Data Communications & Networking | (3) | |
| COSC 336 | Data Structures & Algorithm Analysis | (4) | |
| <i>COSC 480</i> | <i>Senior Seminar</i> | | |
| | OR | (1-3) | |
| <i>COSC 418</i> | <i>Ethical & Societal Concerns of Computer Scientists</i> | | <i>(COSC 418 meets Core requirement 14.)</i> |
| COSC 457 | Database Management Systems | (3) | |
| COSC 455 | Prog. Languages: Design & Implementation | (3) | |
| COSC 439 | Operating Systems | (3) | |
| COSC | Upper-Level Approved COSC Electives | (12) | |
| | Additional science requirement | (4-6) | <i>(Students must complete a minimum of 12 approved science units.)</i> |

Total Units Toward B.S. Degree: 126-130 Units

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|--|-------|
| Harford Computer Science A.S. Degree | 64 |
| Completion of Core at Towson University | 18 |
| Completion of Program requirements at Towson | 44-48 |