B.S. in Information Technology

About the Program

Students living in or near northeastern Maryland can have all the perks of being enrolled at Towson University with the convenience of taking classes in their backyard.

If you complete one of the following programs, you will be able to transfer to Towson University in Northeastern Maryland. Please see the specific requirements for each HCC program on subsequent pages in this packet to ensure that you have completed all the necessary courses at HCC as these courses are not offered at TUNE.

- Harford Community College’s Associate of Applied Science in Computer Information Systems (CIS)
- Harford Community College’s Associate of Applied Science in Information Assurance & Cybersecurity

The bachelor’s degree in Information Technology prepares you to enter the workplace as an IT professional and grow into leadership positions or pursue research or graduate studies in the IT field.

Academic Advantages

- Small classes and highly individualized advising
- Research and internship opportunities through partnerships with federal, state and local government agencies and the IT industry
- State-of-the-art facilities and equipment
- Excellent faculty with diverse research specialties
- Competitive accreditations and designations reflecting high quality academics and faculty expertise
- Location along the Baltimore-Washington corridor with its thriving high-tech industry and government agencies in need of highly skilled professionals

Example Course Descriptions

CIS 377 Information System Security Information systems security threats, technologies and business requirements, emphasizing human and technological aspects of IT security problems.

ITEC 345 Scripting Languages Provides students with a solid foundation in the concepts which underlie many scripting languages and environments without focusing exclusively on any one language. Student will develop, test, and execute programs in a hands-on environment.

ITEC 325 System Administration & Maintenance Essentials for effective administration and maintenance of applications, operating systems and networks, including IT system documentation, policies and procedures, and the education and support of the users of these systems.

COSC 418 Ethics and Societal Concerns for CS Ethical questions and societal concerns related to the widespread use of computers and the resulting responsibilities of computer scientists.

ITEC 411 System Architecture and Integration Architecture and integration of systems. Gathering requirements, sourcing, evaluating and integrating components into a single system. It also covers the fundamentals of project management and the interplay between IT applications and organizational processes.

CIS 435 Human Computer Interaction Effective, productive information systems, including interactive computer systems, input and output devices, screen layouts, machine design, health issues, organizational impacts, and computers and the disabled.

ITEC 485 Senior Practicum Design and implement an IT project with consideration for real-world issues including cost, safety, efficiency, and suitability for the intended user. Display ability to integrate and apply critical technical skills with a variety of management concepts, principles, techniques, and practices, while effectively managing people, information, information and communication technologies, and business processes for the organizational strategic goals.
Harford Community College: Associate of Applied Sciences (A.A.S) in Computer Information Systems

Towson University: Bachelor’s Degree (B.S.) in Information Technology

Towson University offers students the opportunity to obtain a bachelor’s degree (B.S.) in Information Technology without ever leaving Harford County! Students who complete HCC’s Associate of Applied Sciences (A.A.S) in Computer Information Systems will be eligible to transfer to the TU in Northeastern Maryland facility on the Harford Community College campus to earn a bachelor’s degree.

Recommended Course Schedule Sequence at Harford Community College

NOTE: The following codes identify courses which satisfy the General Education Requirements at HCC:

- GB Behavioral/Social Science
- GH Arts/Humanities
- GM Mathematics
- GL Biological/Physical Laboratory Science

TO SATISFY THE DIVERSITY REQUIREMENT: Associate degree students must complete one 3-credit diversity course D. It is recommended that students select one of the 3-credit GB, GH, GI course electives from those that appear on the approved list of diversity course graduation requirements.

At HCC, future transfer students may earn credits that count toward the Core Curriculum requirements at Towson University. These Core requirements consist of a minimum of 40 units of coursework in 13 categories.

### First Semester (14 credits)

- BA 101 Introduction to Business (3) GI (Core 11)
- CIS 102 Introduction to Information Sciences (3) GI (Core 4)
- ENG 101 English Composition (3) GE (Core 2)
- MATH 216 Intro to Statistics (4) GM (Core 3)
- Physical Education Elective (1)

### Second Semester (17 credits)

- CIS 104 Computer Operating Systems (3)
- CIS 119 Programming I: Java (4)
- CIS 115 Fundamentals of Programming (3)
- Biological/Physical Lab Science Elective (4) GL (Core 7)
- CMST 210 Group Communication & Leadership (3) GH (Core 5)

### Third Semester (16 credits)

- CIS 135 Introduction to Networks (3)
- CIS 214 Programming II: Java (4)
- ENG 209 Technical Writing (3)
- CIS 136 Introduction to Internet Technologies (3)
- CSI/CIS/ISS Elective (3) ****

**** Any CIS/CIS/ISS course(s) may be taken to satisfy the CIS/CIS/ISS electives.

### Fourth Semester (13 credits)

- CIS 203 Computer Systems and Procedures (3)
- CIS 217 Introduction to Web Programming (3)
- CIS 273 Cooperative Education: Comp Info Systems (3) OR
- CSI/CIS/ISS Elective (3) ****
- Behavioral/Social Science Elective (3) GB (Core 6)
- Physical Education Elective (1)

Last revised 04/02/2020. Please note agreement sequences are subject to change according to state guidelines. Be sure to meet with your HCC advisor each semester.
## B.S. in Information Technology

### Towson University in Northeastern Maryland

<table>
<thead>
<tr>
<th>Total Units to Complete</th>
<th>Core General Education Courses Needed</th>
</tr>
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<tbody>
<tr>
<td>60</td>
<td><strong>Core 8</strong>   Biological &amp; Physical Sciences (3-4)</td>
</tr>
<tr>
<td></td>
<td><strong>Core 9</strong>   Advanced Writing Seminar (3): ENGL 317 Required</td>
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<tr>
<td>33</td>
<td><strong>Core 10</strong>  Metropolitan Perspectives (3)</td>
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<tr>
<td>15-16</td>
<td><strong>Core 12</strong>  Global Perspectives (3)</td>
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<td>10-12</td>
<td><strong>Core 13</strong>  Diversity &amp; Difference (3)</td>
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<tr>
<td>120</td>
<td><strong>Core 14</strong>  Ethical Issues &amp; Perspectives (3): COSC 418 Required</td>
</tr>
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</table>

### First Fall Term (15 units)

- **MATH 263**: Discrete Mathematics (3)
- **ITEC 325**: System Administration & Maintenance (3)
- **ITEC 315**: Data and Information Management (3)
- **PHYS 103**: How Things Work (3) *(Core 8)*
- **GEOG 102**: World Regional Geography *(Core 12)*

### Second Fall Term (15 units)

- **ITEC 411**: System Architecture and Integration (3)
- **COSC 418**: Ethics and Societal Concerns for CS (3) *(Core 14)*
- **IT Elective**: TBD
- **IT Elective**: TBD
- **General Elective**: TBD*

*General Electives can be taken at TUNE or on-line.

### First Spring Term (15 units)

- **ITEC 345**: Scripting Languages (3)
- **CIS 377**: Information System Security (3)
- **ITEC 201**: Metropolitan Info. Tech Structure (3) *(Core 10)*
- **ENGL 317**: Writing for Business & Industry (3) *(Core 9)*
- **PHIL 204**: Race, Class, & Gender (3) *(Core 13)*

### Second Spring Term (15 units)

- **CIS 435**: Human Computer Interaction (3)
- **IT Elective**: TBD
- **IT Elective**: TBD
- **IT Elective**: TBD
- **General Elective**: TBD*

*General Electives can be taken at TUNE or on-line.

For more information about the **Core Curriculum**, please visit: [http://www.towson.edu/academicadvising/current/curriculum.html](http://www.towson.edu/academicadvising/current/curriculum.html)

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### General Information

**TU in Northeastern Maryland**

- 510 Thomas Run Road • Bel Air, MD 21015
- 410-704-TUNE (8863) • TUNEMD@towson.edu

### Timothy Schneider

- Advising Specialist, IT Program
- TU in Northeastern Maryland
- 410-704-4918 • tschneider@towson.edu

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Harford Community College: Associate of Applied Sciences (A.A.S) in Information Assurance and Cybersecurity

Towson University: Bachelor’s Degree (B.S.) in Information Technology

Towson University offers students the opportunity to obtain a bachelor’s degree (B.S.) in Information Technology without ever leaving Harford County! Students who complete HCC’s Associate of Applied Sciences (A.A.S) in Computer Information Systems will be eligible to transfer to the TU in Northeastern Maryland facility on the Harford Community College campus to earn a bachelor’s degree.

Recommended Course Schedule Sequence at Harford Community College

NOTE: The following codes identify courses which satisfy the General Education Requirements at HCC:

- GB Behavioral/Social Science
- GH Arts/Humanities
- GM Mathematics
- GL Biological/Physical Laboratory Science
- GE English Composition
- GI Interdisciplinary & Emerging Issues
- GS Biological/Physical Science

TO SATISFY THE DIVERSITY REQUIREMENT: Associate degree students must complete one 3-credit diversity course D. It is recommended that students select one of the 3-credit GB, GH, GI course electives from those that appear on the approved list of diversity course graduation requirements.

At HCC, future transfer students may earn credits that count toward the Core Curriculum requirements at Towson University. These Core requirements consist of a minimum of 40 units of coursework in 13 categories.

**First Semester (15 credits)**

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<th>Credits</th>
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<tbody>
<tr>
<td>CIS 102</td>
<td>Introduction to Information Sciences</td>
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</tr>
<tr>
<td>ENG 101</td>
<td>English Composition (GE: Core 2)</td>
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<tr>
<td>ISS 105</td>
<td>Introduction to Cybersecurity (GI: Core 11)</td>
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<td>CMST 210</td>
<td>Group Communication &amp; Leadership</td>
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<td>CIS 135</td>
<td>Introduction to Networks</td>
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**Second Semester (18 credits)**

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<td>CIS 104</td>
<td>Computer Operating Systems</td>
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<tr>
<td>CIS 119</td>
<td>Programming 1: Java (OR)</td>
<td>4</td>
</tr>
<tr>
<td>CSI 131</td>
<td>Computer Science I</td>
<td>4</td>
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<tr>
<td>CIS 211</td>
<td>MS Windows Server Operating System</td>
<td>3</td>
</tr>
<tr>
<td>ISS 111</td>
<td>Cisco 1</td>
<td>4</td>
</tr>
<tr>
<td>ISS 112</td>
<td>Cisco 2</td>
<td>4</td>
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**Third Semester (15 credits)**

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<tbody>
<tr>
<td>CIS 210</td>
<td>Fundamentals of Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CIS 214</td>
<td>Programming II: Java (OR)</td>
<td>4</td>
</tr>
<tr>
<td>CSI 132</td>
<td>Computer Science II</td>
<td>4</td>
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<tr>
<td>ISS 220</td>
<td>Strategic Infrastructure Security</td>
<td>3</td>
</tr>
<tr>
<td>MATH 216</td>
<td>Introduction to Statistics (GM: Core 3)</td>
<td>4</td>
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<tr>
<td>Physical Education Elective</td>
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**Fourth Semester (13 credits)**

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<tr>
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<tbody>
<tr>
<td>ISS 221</td>
<td>Network Defenses &amp; Countermeasures</td>
<td>3</td>
</tr>
<tr>
<td>CIS 217</td>
<td>Introduction to Web Programming</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral/Social Science Elective</td>
<td>GB D: Core 6</td>
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</tr>
<tr>
<td>Biological/Physical Lab Science Elective</td>
<td>GL: Core 7</td>
<td>4</td>
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</table>

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B.S. in Information Technology
Towson University in Northeastern Maryland

**Total Units to Complete**
- 60 Transferred credits from HCC
- 33 TU Information Technology Program
- 15-16 TU Core Requirements
- 10-12 General Electives
- 120 Total for Graduation

**Core General Education Courses Needed**
- **Core 8** Biological & Physical Sciences (3-4)
- **Core 9** Advanced Writing Seminar (3): ENGL 317 Required
- **Core 10** Metropolitan Perspectives (3)
- **Core 12** Global Perspectives (3)
- **Core 13** Diversity & Difference (3)
- **Core 14** Ethical Issues & Perspectives (3): COSC 418 Required

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- **MATH 263**: Discrete Mathematics (3)
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For more information about the **Core Curriculum**, please visit: [http://www.towson.edu/academicadvising/current/curriculum.html](http://www.towson.edu/academicadvising/current/curriculum.html)
Three Reasons to Apply

Save Money.

- Fulltime TUNE students save more than $1,500 per year on fees as compared to students on the main campus. Tuition amounts are the same at both locations.
- Parking is free and convenient.
- TUNE students save on room and board, which costs approximately $11,000 per academic year on the main campus.
- Students are eligible for the same Financial Aid packages (grants, scholarship, loans, etc.) that are awarded to main campus students. In order to be considered, students must submit the FAFSA by the posted deadline.
- Student employment opportunities are available on-site.

Convenient. Close to Home.

- Program advisors and admissions representatives hold regular office hours on-site.
- Select programs offer internship opportunities in the region.
- TUNE’s Director of Student Services organizes diverse student life activities and events to bring the full college experience to TUNE.
- Fulltime TUNE students have access to Harford Community College’s fitness facilities.
- Students may purchase textbooks, class materials, TU apparel, and much more at TUNE’s bookstore. Items can also be ordered from TU’s main campus UStore and delivered to TUNE for pickup.
- Food, beverages, and snacks are available on-site at the TUNE café, bookstore, and vending machines.
How to Apply

1. To access the online application, please visit our webpage at www.towson.edu/tune and click the “Apply Now” button. You can also visit the application directly at www.towson.edu/applytune.

2. Please read the application instructions carefully. Allow yourself approximately 20-30 minutes to fully complete the application. A $45 non-deferrable, non-refundable fee is required with your application. Payment may be made with a credit card or electronic check.

3. Remember to send official transcripts from all previously attended colleges and universities to Admissions via email to: Admissions_Documents@towson.edu [Some schools will send electronically to TU.]

   or via postal mail to: Towson University
   Office of Undergraduate Admissions
   8000 York Road
   Towson, MD 21252

4. Some majors have additional requirements or screening criteria, such as prerequisite courses, supplemental applications, GPA requirements, or passing Praxis scores. Admission to Towson University does not guarantee entry into these majors. The following programs at TUNE have additional requirements: Business Administration, Education, and Nursing.

The Deadlines

The final application deadline is June 1 for fall admission and November 15 for spring admission. The application will remain open on a space-available basis.

To be considered for merit-based scholarships offered through the University, your TU application and official transcripts must be submitted by March 1.

The TU Priority Deadline for the FASFA is usually in mid-January and posted at www.towson.edu/finaid.

Questions?

Transfer advising staff are on-site at regular times throughout the semester. Please call us at 410-704-TUNE (8863) or email tunemd@towson.edu to make an appointment to meet with a counselor if you have questions regarding transfer of credits or the application process.