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 and/or Cecil College program on subsequent pages in this packet to ensure that you have completed all the necessary courses at HCC and/or Cecil College 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
- Cecil College's Associate of Applied Science (A.A.S) in Computer Science-Programming

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 Introduction to Cybersecurity Provides an overview of key cybersecurity concepts and practices and broadly characterizes the global security landscape, including cyber law and cyber warfare.

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 on e-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 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

First Fall Term (15 Units)	First Spring Term (18 Units)
CIS 102: Introduction to Information Sciences (3) **GI (4)**	**CIS 104:** Computer Operating Systems (3)
ISS 105: Introduction to Cybersecurity (3) **GI (Core 11)**	**CIS 119:** Programming 1: Java (4) **OR**
CIS 135: Introduction to Networks (3) (Term 2)	**CSI 131:** Computer Science I (4)
ENG 101: English Composition (3) **GE (Core 2)**	**CIS 211:** MS Windows Server Operating System (3)
CMST 210: Group Communication & Leadership (3) **GL (Core 5)**	**ISS 111:** Cisco 1 (4)
	ISS 112 Cisco 2 (4)

Second Fall Term (15 Units)	Second Spring Term (13 Units)
CIS 210: Fundamentals of Network Security (3)	**ISS 221:** Network Defenses & Countermeasures (3)
CIS 214: Programming II: Java (4) **OR**	**CIS 217:** Introduction to Web Programming (3)
CSI 132: Computer Science II (4)	**CIS 273**: Cooperative Education: Comp Info Systems OR
ISS 220: Strategic Infrastructure Security (3)	**Behavioral/Social Science Elective** (3) **GB D (Core 6)**
MATH 216: Introduction to Statistics (4) **GM (Core 3)**	**Biological/Physical Science Elective w/Lab** (4) **GL (Core 7)**
Physical Education Elective (1)	

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

GB Behavioral/Social Science **GE** English Composition **GH** Arts/Humanities

GI Interdisciplinary & Emerging Issues **GM** Mathematics **GS** Biological/Physical Science

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.

Program Transfer Agreement revised 11/2017. Please note agreement sequences are subject to change. Be sure to meet with your HCC advisor each semester to track your progress and confirm course schedule needs.

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)

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

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 (3) **(Core 12)**

First Spring Term (15 units)

ITEC 345: Scripting Languages (3)

ITEC 201: Metropolitan Info. Tech Structure **(Core 10)**

PHIL 204: Race, Class, & Gender (3) **(Core 13)**

ENGL 317: Writing for Business & Industry (3) **(Core 9)**

General Elective: See Advisor for options (3)*

Second Fall Term (15 units)

ITEC 411: System Architecture and Integration (3)

COSC 418: Ethics and Societal Concerns (3) **(14)**

IT Elective: TBD - Dept. Choice (3)

IT Elective: TBD - Dept. Choice (3)

General Elective: See Advisor for options (3)*

Second Spring Term (15 units)

CIS 435: Human Computer Interaction (3)

IT Elective: TBD - Dept. Choice (3)

IT Elective: TBD - Dept. Choice (3)

IT Elective: TBD - **Dept. Choice** (3)

General Elective: See Advisor for options (3)*

*General Electives can be taken from TU either at TUNE or online.

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

General Information

TU in Northeastern Maryland

510 Thomas Run Road • Bel Air, MD 21015

410-704-TUNE (8863) •TUNEMD@towson.edu

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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

First Fall Term (14 Units)

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)

First Spring Term (17 Units)

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

Second Fall Term (16 Units)

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

Second Spring Term (13 Units)

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)

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

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

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

Program Transfer Agreement revised 11/2017. Please note agreement sequences are subject to change. Be sure to meet with your HCC advisor each semester to track your progress and confirm course schedule needs.

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)

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

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 (3) **(Core 12)**

First Spring Term (15 units)

ITEC 345 Scripting Languages (3)

CIS 377 Introduction to Cybersecurity (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 Fall Term (15 units)

ITEC 411 System Architecture and Integration (3)

COSC 418 Ethics and Societal Concerns (3) **(Core14)**

IT Elective: TBD Dept. Choice (3)

IT Elective: TBD Dept. Choice (3)

General Elective: See Advisor for options (3)*

Second Spring Term (15 units)

CIS 435: Human Computer Interaction (3)

IT Elective: TBD Dept. Choice (3)

IT Elective: TBD Dept. Choice (3)

IT Elective: TBD Dept. Choice (3)

General Elective: See Advisor for options (3)*

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

*General Electives can be taken from TU either at TUNE or online.

General Information

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Cecil College: Associate of Applied Sciences (A.A.S) in Computer Science—Programming

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 (ITEC) without ever leaving Northeastern Maryland. Students who complete **Cecil College's Associate of Applied Sciences (A.A.S) in Computer Science-Programming** will be eligible to transfer to the **TU** in Northeastern Maryland facility on the Harford Community College campus to earn a bachelor's degree in ITEC.

Recommended Course Schedule Sequence at Cecil College

First Fall Term (16 Credits)

CSC 103— Survey of Operating Systems (3)

CSC 104— Computer Science Fundamentals **I** (3)

CSC 106— Introduction to Programming Logic (3)

EGL 101— College Composition **E** (3)

MAT 127— Introduction to Statistics **M** (4)

First Spring Term (16 Credits)

CSC 109— Introduction to Programming (3)

CSC 140— Introduction to Networking (3)

CSC 205— Computer Science **I** (3)

EGL 211—Technical Writing (3)

SCI— Science Elective w/lab **SL** (4)

Second Fall Term (16 Credits)

VCP 144— Web Design 1— Design Fundamentals (3)

CSC 218— Computer Science II (4)

CSC— Computer Science Elective (3)

CSC— Computer Science Elective (3)

SOC SCI— Social Science Elective **SS** (3)

Second Spring Term (13 Credits)

CSC 182— Web Application Development (3)

CSC 203— Seminar in Information Systems (1)

CSC 110— Ethics in Information Technology **I** (3)

SPH 141— Public Speaking **H** (3)

CSC— Computer Science Elective (3)

NOTE: The following codes identify courses which satisfy the General Education Requirements at **Cecil College**

B Behavioral/Social Science   **E** English Composition   **H** Arts/Humanities

I Interdisciplinary & Emerging Issues   **M** Mathematics   **S** Biological/Physical Science

L Science w/lab

At **Cecil College**, future transfer students to **Towson University** will use General Education requirement credits to count toward the **Core Curriculum** requirements at **TU**. These **Core** requirements consist of coursework in 13 **TU Core** categories.

Program Transfer Agreement revised 02/2024. Please note that this information is subject to change. Be sure to meet with your **Cecil** advisor each semester to track your progress and confirm course schedule needs.

TOWSON UNIVERSITY | Northeastern Maryland

CECIL COLLEGE

B.S. in Information Technology

Towson University in Northeastern Maryland

Total Units to Complete

61	Transferred credits from HCC
36	TU Information Technology Program
18	TU Core Requirements
6	General Electives
121	**Total for Graduation**

Core General Education Courses Needed

Core 8 — Biological & Physical Sciences (3) PHYS 103

Core 9 — Advanced Writing Seminar (3) ENGL 317

Core 10 — Metropolitan Perspectives (3) ITEC 201

Core 11 — The United States as a Nation (3) TBD

Core 12 — Global Perspectives (3) GEOG 102

Core 13 — Diversity & Difference (3) PHIL 204

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 (3) **(Core 12)**

First Spring Term (15 units)

ITEC 345 Scripting Languages (3)

CIS 377 Introduction to Cybersecurity (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 Fall Term (15 units)

ITEC 411 System Architecture and Integration (3)

IT Elective: TBD Dept. Choice (3)

IT Elective: TBD Dept. Choice (3)

Core 11: TBD (3) **(Core 11)**

General Elective: See Advisor for options (3)*

Second Spring Term (15 units)

CIS 435: Human Computer Interaction (3)

IT Elective: TBD Dept. Choice (3)

IT Elective: TBD Dept. Choice (3)

IT Elective: TBD Dept. Choice (3)

General Elective: See Advisor for options (3)*

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

*General Electives can be taken from TU either at TUNE or online.

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Three Reasons to Apply

Same Quality Programs. Same Quality Degree.

- Established partnerships with local community colleges provide a seamless transfer and assure maximum transfer credit.
- All programs are Maryland Higher Education Commission (MHEC) approved and, if applicable, accredited by their specific professional organization.
- The same high caliber instructors teaching on main campus also teach courses at Towson University in Northeastern Maryland (TUNE).
- Students receive a bachelor's degree awarded by Towson University. The programs at TUNE are identical to those on main campus.

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.
- Students may purchase from TU's main campus UStore, textbooks, class materials, TU apparel, and much more and the items will be delivered to their home.
- Food, beverages, and snacks are available on-site at the TUNE café, vending machines, and food pantry, which is located in the student lounge.

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 $50 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 <u>official</u> transcripts from all previously attended colleges and universities to Admissions

   via email to: **Admissions_Documents@towson.edu** [Some schools will send electronically to TU.]

   <u>or</u> 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**. 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.