



**UNIVERSITY OF MARYLAND
EASTERN SHORE**

Association of Technology, Management, and Applied Engineering (ATMAE) Standard 19

Program Responsibility to Provide Information to the Public: The program must make available to the public via website, information on student performance and achievement as required by CHEA. This information shall be no more than a single click away from the degree program’s Home Page and readily accessible to the public. Information provided shall comply with the institution’s plan for public disclosure but must help the public understand how to judge the success of the specific program and program options under review.

Sources of potential information can include but are not limited to program student graduation rates; mean grade point averages; average years to complete the degree; student awards/scholarships received and the program’s Outcome Assessment process and results; time to secure first position; average starting salaries; and promotions achieved.

Institutions are required to provide the hyperlink of where this information is located.

UMES Public Information for the M.S. in Cybersecurity Engineering Technology Program

Mean Cumulative Grade Point Average (CGPA): **3.35 out of 4.00**

Weighted Average time to complete the Master’s degree program: **1.838 years**

Student Headcount

Program	HEADCOUNT						
	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021	Fall 2022
MSCSET	8	14	19	24	24	20	22

- a. Program’s Outcome Assessment process and results
 - i. Program Goals (Long Term, Short Term, and Plans to Achieve)

Long-Term Program Goals

LTPG1 - Prepare MSCSET students for a diverse, competitive, dynamic, and professional environment by providing them with experiences that enrich academic, co-curricular, and career goals.

LTPG2 - Strengthen the long-term economic viability of the MSCSET program by increasing student enrollment, strategic resource allocation decisions, and sound fiscal management.

LTPG3 - Enhance academic excellence through the scholarship and active mentorship of diverse and dedicated MSCSET faculty and staff.



UNIVERSITY OF MARYLAND EASTERN SHORE

LTPG4 - Engage in productive relationships with various stakeholders in order to enhance the reputation of the MSCSET program, and increase private support provided to our students.

Short-Term Program Goals

STPG1 - Recruit a well-qualified and diverse population of graduate students.

STPG2 - Direct resources in support of high-impact learning practices.

STPG3 - Retain and support the outstanding and diverse MSCSET faculty and staff.

STPG4 - Enhance the promotion of the MCSET program as a highly respected academic program and continue to cultivate a reputation for excellence.

Plans to Achieve Program Goals

PA1 - Utilize best practices in recruitment to maintain a diverse population of graduate students.

PA2 - Promote curriculum development to keep the MSCSET program relevant and attractive for prospective students, and to meet the needs of the regional industry.

PA3 - Support departmental funding for MSCSET faculty development activities.

PA4 - Highlight notable/successful MSCSET alumni to promote the program's distinctiveness.

ii. Program Objectives

PO1 - Prepare graduates with the technical knowledge and skills needed to protect and defend computer systems and networks by ensuring the availability, integrity, authentication, and confidentiality of digital information.

PO2 - Develop graduates who can plan, implement, upgrade, and monitor cyber security measures for the protection of computing infrastructure.

PO3 - Develop graduates who are able to analyze and address computer security breaches.

iii. Program Learning Competencies/Outcomes



UNIVERSITY OF MARYLAND EASTERN SHORE

Upon successful completion, Cybersecurity Engineering Technology graduates will be able to:

- PLCO1 - Evaluate the cybersecurity needs of an organization,
- PLCO2 - Assess cybersecurity risk management policies,
- PLCO3 - Measure the performance of cybersecurity systems,
- PLCO4 - Troubleshoot, maintain, and update cybersecurity systems,
- PLCO5 - Implement real-time cybersecurity solutions, and
- PLCO6 - Design short-and long-term cybersecurity strategies and policies.

- iv. Program Assessment Measures
 - 1. CSET Graduating Exit Survey
 - 2. CSET Alumni Survey
 - 3. CSET Employer Survey
 - 4. CSET Indirect Student Survey
 - 5. CSET Direct Student Assessment (ETCS 690)
- b. Time to Secure the First Position After Graduation: **5 months**
- c. Job Titles of Graduates
 - i. Electronics Engineering Associate
 - ii. Systems Engineer
 - iii. Chief Information Officer
 - iv. Transportation Engineering III
 - v. IT Operations Technician
 - vi. IT Technician
- d. Names of Companies Who Hired Our Graduates
 - i. CECOM U.S Army
 - ii. SystemOneX
 - iii. Lockheed Martin
 - iv. St. Mary's County Health Department
 - v. Maryland Department of Transportation - State Highway Administration
 - vi. Ocean Downs Casino
 - vii. Worcester County, Maryland
- e. Graduates' Average Starting Salaries: **\$67,900**
- f. Alumni's Average Time to Achieve First Promotion: **8 months**