

**2017/18 Assessment Report on  
Basic Certificate - Fundamentals of Cybersecurity  
(by Melody Moh, March 2018)**

**1. Overview of Main Work Accomplished:**

- a) Completed the [certificate assessment website](#), which includes assessment schedule, assessment rubrics, and assessment reports:
- b) Included on the [certificate website](#) the Program Educational Objective and the Program Learning Outcome, both revised in May 2017.
- c) Implemented the [exit survey](#) for assessment (online, web-based), which was designed in May 2017.

**2. Program Educational Objective**

The undergraduate cybersecurity certificate program provides students with a well-grounded foundation to become professionals in software security and information assurance.

**3. Course Work**

Take one course from each of the rows in the table below:

Courses	Units
CS/SE 146 Data Structures and Algorithms	3
CS/SE 149 Operating Systems	3
CS/SE 157A Introduction to Database Management Systems	3
CS 158A Computer Networks or SE 148 Computer Networks I	3
CS/SE 158B Computer Network Management: Principles and Technology	3
CS/SE 166 Information Security	3

**4. Program Learning Outcomes (PLO)**

Upon successful completion of the certificate curriculum, students will be able to:

- (a) apply security principles and practices to the environmental, hardware, software, and human components of a system
- (b) analyze and evaluate systems with respect to maintaining operations in the presence of risks and threats

**5. PLO supported by Certificate Courses**

	PLO (a)	PLO (b)
CS/SE 146	X	
CS/SE 149	X	

CS/SE 157A	X	
CS 158A or SE 148	X	X
CS/SE 158B	X	X
CS/SE 166	X	X

#### 6. Number of Students Received Certificate in 2017/18 previous

Semester	Number of Students	Notes
Fall 2017	10	Registrar notated transcript, certificate printed.
Spring 2018	10	Estimated; semester not completed.

#### 7. Estimated Number of Students Receiving Certificate

Year	Estimated Number of Students Receiving Certificate
2017/18	20
2018/19	25
2019/20	30
2020/21	35
2021/22	35

#### 8. Proposed Improvements

The following is a list of proposed improvements:

- a) To survey also students' next steps (landing a job – the job title/function and company, graduate/professional school, etc.).
- b) To post exit survey results at the beginning of every Fall semester, summarizing the assessment results of the previous school year.