

# CYBER SECURITY AND ASSURANCE CERTIFICATE

## *Cyber Security and Assurance – M710*

### **CATALOG DESCRIPTION OF PROGRAM:**

The Cyber Security and Assurance Program provides students with practical experience in understanding the threats and dangers, security assessments and analysis to a wide range of different businesses, and the steps that need to be taken to mitigate these vulnerabilities by using state-of-the-art technology. The program prepares students for vendor-specific or commercially available security certification. The program also emphasizes the need to build a wall between our information and those that want to exploit it. The recurring events such as virus and worm attacks and the success of criminal attackers illustrate the weaknesses in current information technologies and the need to heightened security of these systems.

COURSE	CURRENT SEQUENCE	CREDITS		SEMESTER	GRADE
<b>Summer Semester</b>					
PRE 100	Preparation for Academic Achievement	1	None		
BCAP 104	Introduction to Operating Systems	3	None		
ITSA 125	Security Fundamentals, Principles and Ethics	3	None		
<b>Semester Credits</b>		<b>7</b>			
<b>1<sup>st</sup> Semester</b>					
CISS 105	Introduction to UNIX Operating Systems	3	None		
BCAP 270	Introduction to Help Desk	3	BCAP 104		
ITNT 235	Networking with TCP/IP	3	None		
<b>Semester Credits</b>		<b>9</b>			
<b>2<sup>nd</sup> Semester</b>					
ITSA 242	Computer Forensics and Investigation	3	ITSA 125		
ITSA 233	Ethical Hacking	3	ITSA 125		
ITSA 245	Cyber Security Implementation	3	ITSA 125, ITSA 233		
<b>Semester Credits</b>		<b>9</b>			
<b>PROGRAM TOTAL</b>		<b>25</b>			

Advisor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Student Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## Pre-Requisites for Students in Developmental Courses

COURSE	CURRENT SEQUENCE	CREDITS	PREREQUISITES	SEMESTER	GRADE
<b>RENG 90</b>	Intensive Program Writing	4 hrs.	Placement Test		
<b>RENG 91</b>	Composition Skills I	4 hrs.	Placement Test or RENG 90		
<b>RENG 92</b>	Composition Skills II	4 hrs.	Placement Test or RENG 91		
<b>MAT 80</b>	Arithmetic	3 hrs.	Placement Test		
<b>MAT 86/</b>	Integrated Pre-Algebra and Introductory Algebra	5 hrs.	Placement Test or MAT 80  Students who complete MAT 80 with an A or B within a one year period; Students who recently (within one year) failed and need to repeat MAT 91; students whose ACUPLACER placement score on Elementary Algebra falls within the range 52-62.		
<b>MAT 87M</b>	Integrated Elementary and Intermediate Algebra				
<b>MAT 91</b>	Elementary Algebra	4 hrs.	Placement Test or MAT 80		
<b>MAT 92</b>	Intermediate Algebra	4 hrs.	Placement Test or MAT 91		