

# 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>1<sup>st</sup> Semester</b>				
PRE 100	Preparation for Academic Achievement	1	None	
TEL 100	Introduction to Business Telecommunications	3	College level math	
ITSA 255	Information System Security	3	CISS 109 or instructor's permission	
ITSA 233	Ethical Hacking	3	ITSA 125	
ITSA 242	Computers Forensic and Investigation	3	ITSA 125, ITNT 235	
<b>Semester Credits</b>		<b>13</b>		
<b>2<sup>nd</sup> Semester</b>				
CISS 201	Systems Analysis and Design	3	CISS 109	
ITNT 235	Networking with TCP/IP	3	None	
ITSA 245	Cyber Security Implementation	3	CISS 109, ITSA 125, ITSA 233	
ITSA 270	Business Continuity and Disaster Recovery	3	CISS 109, ITSA 125	
<b>Semester Credits</b>		<b>12</b>		
<b>Summer Semester</b>				
CIS-Electives	CIS Approved Electives	3-4	Depends on course chosen	
ITSA 125	Security Fundamentals, Principles and Ethics	3	None	
CISS 109	Principles of Computer Information Systems	3	Completion of all required dev. courses	
<b>Semester Credits</b>		<b>9-10</b>		
<b>PROGRAM TOTAL</b>		<b>34-35</b>		

CIS APPROVED ELECTIVES		
BCAP 104	Introduction to Operating Systems: DOS/Windows	3
BCWB 252	Introduction to Java Scripts	3
BCWB 260	Introduction to Web Page Design	3
BCWB 265	Website Design and Dev. For E-Commerce	3
BCAP 270	Introduction to Help Desk Support	3
CSCO 201	Networking Basics	4
CSCO 202	Cisco Router and Routing Basics	4
CSCO 203	Cisco Switching Basics and Intermediate Routing	4
CSCO 204	Cisco WAN Technologies	4
CSCO 209	Cisco Fundamentals on Wireless LANs	4
ITDB 246	Oracle Database Administration	3
ITDB 247	Oracle Database Developer & Programming	3
ITSA 253	Operation Systems and Network Security	3
ITNT 265	Windows Systems Administration	3
ITNT 268	Linux/UNIX Systems Administration	4
TEL 140	PC Local Area Networks	3

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		
<b>MAT 87M</b>	Integrated Elementary and Intermediate Algebra		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 91</b>	Elementary Algebra	4 hrs.	Placement Test or MAT 80		
<b>MAT 92</b>	Intermediate Algebra	4 hrs.	Placement Test or MAT 91		