

CYBER SECURITY AND ASSURANCE DEGREE – M714

Associate of Applied Science (AAS)

CATALOG DESCRIPTION OF PROGRAM:

The new degree program in Cyber Security and Assurance at BCCC emphasizes on 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 heighten security of these systems. Students will gain 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.

COURSE	CURRENT SEQUENCE	CREDITS	PREREQUISITES	SEMESTER	GRADE
1st Semester					
PRE 100	Preparation for Academic Achievement	1	None		
ITSA 125	Security Fundamentals, Principles and Ethics	3	None		
CISS 109	Principles of Computer Information Systems	3	Completion of all required dev. courses		
BCAP 104	Introduction to Operating Systems	3	None		
CISS 105	Introduction to UNIX Operating System	3	Completion of all required dev. courses		
ENG 101	English Writing	3	ENG 82 or RENG 92		
Semester Credits		16			
2nd Semester					
SP 101	Fundamentals of Speech Communication	3	ENG 82 or RENG 92		
ECO 201	The American Economy I: Macroeconomic Theory	3	ENG 82 or RENG 92		
MATH-Elective	Gen. Ed.: Mathematics Elective	3	Depends on course chosen		
ITNT 235	Networking with TCP/IP	3	None		
ITSA 233	Ethical Hacking	3	ITSA 125		
Semester Credits		15			
3rd Semester					
BCAP 270	Introduction to Help Desk Support	3	None		
ITSA 253	Operating Systems and Network Security	3	CISS 105, ITNT 235, ITSA 233		
CISS 201	Systems Analysis and Design	3	CISS 109		
MAT 107	Modern Elementary Statistics	3	MAT 86 or MAT 91 and RENG 92		
HLF-Elective	Health and Fitness	2	None		
Semester Credits		14			
4th Semester					
CRJ 101	Introduction to Criminal Justice	3	None		
ITSA 242	Computer Forensic and Investigation	3	ITSA 125, ITNT 235		
ITSA 245	Cyber Security Implementation	3	CISS 109, ITSA 125, ITSA 233		
ITSA 270	Business Continuity and Disaster Recovery	3	CISS 109, ITSA 125		
BPS-Elective	Biological and Physical Sciences	3	Depends on course chosen		
Semester Credits		15			
PROGRAM TOTAL		60			

CIS APPROVED ELECTIVES		
BCAP 270	Introduction to Help Desk	3
CSC 108	Programming in C	3
CISS 118	Programming with Visual Basic	3
CISS 231	Java Programming for Business Applications	3
ITDB 246	Oracle Database Administration	3
ITDB 247	Oracle Database Developer & Programming	3
ITNT 235	Networking with TCP/IP	3
ITSA 125	Security Fundamentals, Principles and Ethics	3
ITSA 233	Ethical Hacking	2
ITSA 242	Computer Forensics and Investigation	3
ITSA 245	Cyber Security Implementation	3

Advisor Signature: _____

Date: _____

Student Signature: _____

Date: _____

Pre-Requisites for Students in Developmental Courses

COURSE	CURRENT SEQUENCE	CREDITS	PREREQUISITES	SEMESTER	GRADE
RENG 90	Intensive Program Writing	4 hrs.	Placement Test		
RENG 91	Composition Skills I	4 hrs.	Placement Test or RENG 90		
RENG 92	Composition Skills II	4 hrs.	Placement Test or RENG 91		
MAT 80	Arithmetic	3 hrs.	Placement Test		
MAT 86/	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.		
MAT 87M	Integrated Elementary and Intermediate Algebra				
MAT 91	Elementary Algebra	4 hrs.	Placement Test or MAT 80		
MAT 92	Intermediate Algebra	4 hrs.	Placement Test or MAT 91		