#### HOWARD UNIVERSITY SCHOOL OF BUSINESS

**Accredited by AACSB-International** 

**Undergraduate Curriculum** 

# COMPUTER INFORMATION SYSTEMS CYBER SECURITY CONCENTRATION

FIRST YEAR						
FIRST SEMESTER		HRS	SECOND SEM	SECOND SEMESTER		
<b>ENGW-XXX</b>	English Writing Requirement	3	<b>ENGW-XXX</b>	English Writing Requirement	3	
MATH-010	College Algebra II *+	4	MATH-026	Applied Calculus *	4	
Foreign Langu	age ①	3	Foreign Lang	ruage (Level 2+)	3	
<b>INFO-010</b>	Business Problem Solving	2	PSYC-050	Intro to Psychology	3	
Afro-America:	n Elective ①	3	HHPL-XXX	Physical Education- Activity	1	
<b>MGMT-010</b>	<b>Business Orientation</b>	1	<b>MGMT-011</b>	<b>Business Orientation II</b>	1	
	TOTAL	16		TOTAL	15	
		SECONI	D YEAR			
FIRST SEMES	TER		SECOND SEMESTER			
ECON-180	Statistics- Bus & Economics	3	History or Po	olitical Science Elective ①	3	
ECON-001	Principles of Economics I	3	ECON-002	Principles of Economics II	3	
<b>ACCT-201</b>	Accounting Principles I◊	3	ACCT-202	Accounting Principles II >	3	
<b>INFO-204</b>	Management Info Systems	3	INFO-210	Intro to Software Design	3	
	(for Honors & Majors)	3	BCOM-320	<b>Business Communication</b>	3	
<b>MGMT-001</b>	Career Counseling	1		TOTAL	<b>15</b>	
HHPL-XXX	Physical Education- Health ①	1				
	TOTAL	14				
		THIRD	YEAR			
FIRST SEMES	TER		SECOND SEMESTER			
INFO-311	<b>Quantitative Bus Analysis</b>	3	<b>INFO-335</b>	Production & Operations Mgmt	3	
INFO-330	Database Management	3	INFO-XXX	Programming Language	3	
Science Elective ①		3-4	<b>FINA-311</b>	Finance Principles	3	
<b>MGMT-301</b>	Management & Org Behavior	3	<b>BLAW-305</b>	Business Law I	3	
<b>MKTG-301</b>	Principles of Marketing	3	INFO-370	Systems Analysis & Design	3	
	TOTAL	15-16		TOTAL	15	
		FOURT	H YEAR			
FIRST SEMESTER			SECOND SEMESTER			
INFO-391	Intro to Information Security	3	INFO-398	Information Systems Consulting	3	
INFO-393	Network/Internet Security Mgmt	3	<b>MGMT-351</b>	Entrepreneurship	3	
BECN-330	Managerial Economics	3	INFO-3XX	Business Analytics or Immersive Lab	3	
INFO-395	Information Assurance	3	PHIL-XXX	Philosophy Elective ①	3	
General Electi	ve	3	<b>MGMT-390</b>	<b>Business Policy</b>	3	
General Elective		3		TOTAL	15	
	TOTAL	18				

#### Minimum semester credits required for GRADUATION: 120

- \* A grade of "C" or higher is required in all Math courses to advance to the next level. Only 4 credit hours will be awarded for each required Math course.
- + Students exempt from Math 010/ College Algebra II must complete a substitute course(s) equivalent to 4 credit hours.
- $\diamondsuit$  The average grade of ACCT 201 and ACCT 202 must be a "C" or higher.
- ① See the *General Education Electives Sheet* in order to determine the courses that fulfill these requirements.
- ② See the Course Requirements for the Major Sheet in order to determine the courses that fulfill these requirements.
- Note: All required and elective courses for your major must be a grade of "C" or higher. See Course Requirements for the Major sheet for more.

Course names in **bold** are those courses that comprise the business core. Course names in *italics* are those courses that are required for the major. Many of the courses listed above require prerequisites. For more information see the *Course Prerequisite Information Sheet*. Any student who has enrolled in a course without the proper prerequisite(s) will be withdrawn from the course.

The course <u>underlined and italicized</u> is the Capstone for the major. This course integrates specific knowledge and skill sets acquired from previous courses within the discipline and features comprehensive assessments of cumulative student learning.

The course <u>underlined and in bold</u> is the Capstone course for the undergraduate business curriculum. This course integrates the knowledge and skills sets acquired from courses in different disciplines and features comprehensive assessments of students' competency in solving complex, interdisciplinary business problems.

## COMPUTER INFORMATION SYSTEMS BBA

### CONCENTRATION IN CYBER SECURITY

Effective Fall 2019 (Rev'd SP24)

General Education Core					
Course No.	Title	Hrs	Prerequisites and Minimum Classification		
	Maximum 15 credits of "Ds" and minimum grade of "C" for MATH courses.				
ECON 001	Principles of Economics I	3			
ECON 002	Principles of Economics II	3			
ENGW	English Writing Requirements	6			
HHPL	Physical Education - Activity Elective	1			
HHPL	Physical Education - Health Elective	1			
HIST or POLS	History or Political Science Elective	3	View the Howard Course Catalog or contact the		
MATH 007 or MATH 010	Pre-Calculus or College Algebra II	4	Department coordinating the course		
MATH 026 or MATH 156	Applied Calculus or Calculus I	4	·		
PSYC 050	Introduction to Psychology	3			
	Afro-American Elective	3			
	Foreign Language Requirements	6			
	General Electives	6			
	Philosophy Elective	3			
	Science Elective	3-4			

Total Credit Hours 49

Business Core				
Maximum 6 credits of "Ds." Minimum average grade of "C" in ACCT 201 and ACCT 202. Minimum grade of "C" in INFO 204.				
ACCT 201	Accounting Principles I	3	MATH 006 (C)	
ACCT 202	Accounting Principles II	3	ACCT 201 (C); MATH 007/010 (C)	
BCOM 320	Business Communication	3	ENGW 101/102/104; ENGW 103/105; MATH 026/156 (C); Sophomore	
BECN 330	Managerial Economics	3	ECON 001; ECON 002; INFO 311; MATH 026/156 (C)	
BLAW 305	Business Law I	3	MATH 026/156 (C); Junior	
ECON 180	Statistics for Business & Economics	3	None	
FINA 311	Finance Principles	3	ACCT 202; ECON 001; ECON 002; MATH 026/156 (C); Junior	
INFO 010	Business Problem Solving	2	None	
INFO 204	Management Info Systems	3	INFO 010	
INFO 311	Quantitative Business Analysis	3	ECON 180; INFO 204; MATH 026/156 (C); Junior	
INFO 335	Production & Operations Mgmt	3	INFO 311; Junior	
MGMT 001	Career Counseling	1	MGMT 011	
MGMT 010	Business Orientation	1	None	
MGMT 011	Business Orientation II	1	MGMT 010	
MGMT 301	Management & Org. Behavior	3	ACCT 201 (C); ECON 001; ECON 002; MATH 026/156 (C); Sophomore	
MGMT 351	Entrepreneurship	3	FINA 311/312; MATH 026/156 (C); MGMT 301; MKTG 301; Junior	
MGMT 390	Business Policy	3	MGMT 301; Senior	
MKTG 301	Principles of Marketing	3	ACCT 201 (C); ECON 001; ECON 002; MATH 026/156 (C)	

Total Credit Hours 47

Major Core			
Minimum 2.5 GPA and grade of "C."			
INFO 210	Introduction to Software Design	3	INFO 204 (C)
INFO 330	Database Management	3	INFO 210 (C)
INFO 340 or INFO 341	Intro to C++ or Java	3	INFO 210 (C)
INFO 370	Systems Analysis and Design	3	INFO 330 (C); Junior
INFO 398	Info Systems Consulting	3	INFO 330 (C); INFO 370 (C); Senior

Total Credit Hours 15

Concentration Requirements				
Minimum 2.5 GPA and grade of "C."				
	INFO 391	Intro to Information Security	3	INFO 204 (C);
	INFO 393	Network/Internet Security Mgmt	3	INFO 204 (C);
	INFO 395	Information Assurance	3	INFO 204 (C);
INFO 3	384 or INFO 397	Business Analytics or Immersive Lab	3	Varies based on chosen course

Total Credit Hours 12