

**HOWARD UNIVERSITY SCHOOL OF BUSINESS**  
Accredited by AACSB-International

**Undergraduate Curriculum**  
**COMPUTER INFORMATION SYSTEMS**  
**CYBER SECURITY CONCENTRATION**

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

**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.

◇ 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 *INFO-398* 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 **MGMT-390** 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 FA22)

General Education Core			
Course No.	Title	Hrs	Prerequisites and Minimum Classification
<i>Maximum 15 credits of "Ds" and minimum grade of "C" for MATH courses.</i>			
ECON 001	Principles of Economics I	3	Varies based on Department
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	
MATH 007 or MATH 010	Pre-Calculus or College Algebra II	4	
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	
	Non-Business Electives	6	
	Philosophy Elective	3	
	Science Elective	3	
<b>Total Credit Hours</b>		<b>49</b>	

Business Core			
<i>Maximum 6 credits of "Ds." Minimum average grade of "C" in ACCT 201 and ACCT 202. Minimum grade of "C" in INFO 204.</i>			
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	Varies based on Department
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); Junior
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 202; ECON 001; ECON 002; MATH 026/156 (C)
<b>Total Credit Hours</b>		<b>47</b>	

Major Core			
<i>Minimum 2.5 GPA and grade of "C."</i>			
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
<b>Total Credit Hours</b>		<b>15</b>	

Concentration Requirements			
<i>Minimum 2.5 GPA and grade of "C."</i>			
INFO 391	Intro to Information Security	3	INFO 210 (C)
INFO 393	Network/Internet Security Mgmt	3	INFO 210 (C)
INFO 395	Information Assurance	3	INFO 204 (C)
INFO 384 or INFO 397	Business Analytics or Immersive Lab	3	Varies based on Department
<b>Total Credit Hours</b>		<b>12</b>	

**Total Credit Hours Required for Graduation in Program 123**

*Minimum 2.0 Cumulative GPA*