

HOWARD UNIVERSITY SCHOOL OF BUSINESS
Accredited by AACSB-International

Undergraduate Curriculum
COMPUTER INFORMATION SYSTEMS WITH
CYBER-SECURITY CONCENTRATION

| FIRST YEAR | | | |
|---|--------------|--|-----------|
| 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 |
| INFO-010 Business Problem Solving | 2 | PSYC-050 Intro to Psychology | 3 |
| Afro-American Elective ① | 3 | HHPL-XXX Physical Education- Activity | 1 |
| MGMT-010 Business Orientation | <u>1</u> | MGMT-011 Business Orientation II | <u>1</u> |
| TOTAL | 16 | TOTAL | 15 |
| SECOND YEAR | | | |
| FIRST SEMESTER | HRS | SECOND SEMESTER | HRS |
| ECON-180 Statistics- Bus & Economics | 3 | History or Political Science Elective ① | 3 |
| ECON-001 Principles of Economics I | 3 | ECON-002 Principles of Economics II | 3 |
| ACCT-201 Accounting Principles I | 3 | ACCT-202 Accounting Principles II | 3 |
| INFO-204 Management Info Systems | 3 | <i>INFO-210 Intro to Software Design</i> | 3 |
| MGMT-001 Career Counseling | 1 | BCOM-320 Business Communication | 3 |
| HHPL-XXX Physical Education- Health ① | <u>1</u> | | |
| TOTAL | 14 | TOTAL | 15 |
| THIRD YEAR | | | |
| FIRST SEMESTER | HRS | SECOND SEMESTER | HRS |
| INFO-311 Quantitative Bus Analysis | 3 | INFO-335 Production & Operations Mgmt | 3 |
| <i>INFO-330 Database Management</i> | 3 | <i>INFO-XXX Programming Language</i> | 3 |
| Science Elective ① | 3-4 | FINA-311 Finance Principles | 3 |
| MGMT-301 Management & Org Behavior | 3 | BLAW-305 Business Law I | 3 |
| MKTG-301 Principles of Marketing | <u>3</u> | <i>INFO-370 Systems Analysis & Design</i> | 3 |
| TOTAL | 15-16 | TOTAL | 15 |
| FOURTH YEAR | | | |
| FIRST SEMESTER | HRS | SECOND SEMESTER | HRS |
| <i>INFO-391 Intro to Info. Security</i> | 3 | <i>INFO-398 Information Systems Consulting</i> | 3 |
| <i>INFO-384 Business Analytics</i> | 3 | MGMT-351 Entrepreneurship | 3 |
| BECN-330 Managerial Economics | 3 | <i>INFO-395 Information Assurance</i> | 3 |
| <i>INFO-393 Network/Internet Sec Mgmt.</i> | 3 | PHIL-XXX Philosophy Elective ① | 3 |
| Non-Business Elective | <u>3</u> | MGMT-390 Business Policy | <u>3</u> |
| TOTAL | 15 | TOTAL | 15 |

Minimum semester credits required for GRADUATION: 120

*a grade of "C" or better must be earned in each of the two required Math courses in order to fulfill the math requirement and in order to enroll in each and every school of business junior-level and senior-level course. Only 4 credit hours will be awarded for each required Math course.

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.

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 Information Systems Consulting* 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 Business Policy** 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.

SCHOOL OF BUSINESS

COURSE PREREQUISITE INFORMATION SHEET

| BUSINESS CORE COURSE | SUBJECT NAME COURSE NUMBER | PREREQUISITES |
|--|----------------------------|--|
| Business orientation | MGMT 010 | NONE; Offered only in the Fall Semester |
| Business orientation ii (<i>Effective Fall 2012</i>) | MGMT 011 | Business Orientation I (MGMT 010) |
| Career counseling | MGMT 001 | Business Orientation II (MGMT 011) |
| Accounting principles I | ACCT 201 | College Algebra I (MATH 006); Sophomore Standing |
| Accounting principles ii | ACCT 202 | College Algebra II (MATH 010) <i>or</i> Precalculus (MATH 007) <i>and</i> Accounting Principles I (ACCT 201); Sophomore Standing |
| Business communication | BCOM 320 | English Writing Requirement (ENGW 101, 102, 104), English Writing Requirement (ENGW 103, 105); Sophomore Standing |
| Business law I | BLAW 305 | Applied Calculus (MATH 026) <i>or</i> Calculus I (MATH 156), Accounting Principles II (ACCT 202), <i>and</i> Business Communication (BCOM 320); Junior Standing |
| Management information systems | INFO 204 | Business Problem Solving (INFO 010) |
| Statistics– business & economics (College of arts & sciences) | ECON 180 | None |
| Quantitative business analysis | INFO 311 | Applied Calculus (MATH 026) <i>or</i> Calculus I (MATH 156), Statistics- Business & Economics (ECON 180), Management Information System (INFO 204), <i>and</i> Accounting Principles II (ACCT 202); Junior Standing |
| Management and organizational behavior (formerly principles of management) | MGMT 301 | Applied Calculus (MATH 026) <i>or</i> Calculus I (MATH 156), Principles of Economics I (ECON 001), Principles of Economics II (ECON 002), <i>and</i> Accounting Principles II (ACCT 202); Junior Standing |
| Finance principles | FINA 311 | Applied Calculus (MATH 026) <i>or</i> Calculus I (MATH 156), Principles of Economics I (ECON 001), Principles of Economics II (ECON 002), <i>and</i> Accounting Principles II (ACCT 202); Junior Standing |
| Principles of marketing | MKTG 301 | Applied Calculus (MATH 026) <i>or</i> Calculus I (MATH 156), Principles of Economics I (ECON 001), Principles of Economics II (ECON 002), <i>and</i> Accounting Principles II (ACCT 202); Junior Standing |
| Production & operations management | INFO 335 | Applied Calculus (MATH 026) <i>or</i> Calculus I (MATH 156) <i>and</i> Quantitative Business Analysis (INFO 311); Junior Standing |
| Entrepreneurship | MGMT 351 | Applied Calculus (MATH 026) <i>or</i> Calculus I (MATH 156), Finance Principles (FINA 311) <i>or</i> Business Finance (FINA 312), Management <i>and</i> Organizational Behavior (MGMT 301), <i>and</i> Principles of Marketing (MKTG 301); Junior Standing |
| Managerial economics | BECN 330 | Applied Calculus (Math 026) <i>or</i> Calculus I (MATH 156), Principles of Economics I (ECON 001), Principles of Economics II (ECON 002), <i>and</i> Quantitative Business Analysis (INFO 311) |
| Business policy | MGMT 390 | Management and Organizational Behavior (MGMT 301) <i>and</i> Senior Standing |
| Math prerequisites will not be waived. A grade of "C" or better is required in all math courses in order to advance to the next level. | | |

Number of hours accepted in the business core with a grade of "F": 0
 Number of hours accepted in the business core with a grade of "D": 6
 Number of hours (including the business core) accepted with a grade of "D": 21
 Number of hours accepted in the business core course required in the major with a grade of "D" or "F": 0
 Number of hours accepted in the major requirements with a grade of "D" or "F": 0
 Minimum cumulative grade point average required in the major in order to graduate: 2.50
 Minimum cumulative grade point average required in order to graduate: 2.00

For more information on requirements and electives see the Academic and/or Faculty Advisors.