### Program Map: Computer Information Systems

**Department of Accounting, Computer Information Systems, and Global Logistics & International Business, College of Business Administration**

**Senior**

<table>
<thead>
<tr>
<th>Course</th>
<th>Name</th>
<th>Hours</th>
<th>Course</th>
<th>Name</th>
<th>Hours</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1101*</td>
<td>Composition I</td>
<td>3</td>
<td>ENGL 1102*</td>
<td>Composition II</td>
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<td>*course must be passed with grade C or higher</td>
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<tr>
<td>MATH 1111*</td>
<td>College Algebra</td>
<td>3</td>
<td>BUSA 2106</td>
<td>The Environment of Business</td>
<td>3</td>
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<tr>
<td>CISM/CSCI 1130*</td>
<td>Computer Applications</td>
<td>3</td>
<td>ECON 2105</td>
<td>Principles of Macroeconomics</td>
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<tr>
<td><strong>Non-lab science</strong></td>
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<td>3</td>
<td>HUMN 1201</td>
<td>Critical Thinking &amp; Communications</td>
<td>3</td>
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<tr>
<td>BUSA 2103</td>
<td>Intro to Business &amp; Leadership</td>
<td>3</td>
<td>MATH 1113</td>
<td>Pre-Calculus</td>
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**Junior**

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<tbody>
<tr>
<td>CISM 3232*</td>
<td>Web Application Development</td>
<td>3</td>
<td>CISM 3140*</td>
<td>Intro to Programming: Visual Basic</td>
<td>3</td>
<td>*course must be passed with grade C or higher</td>
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<tr>
<td>CISM 4137*</td>
<td>Database Design &amp; Implementation</td>
<td>3</td>
<td>MKTG 3175</td>
<td>Principles of Marketing</td>
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<tr>
<td>FINC 3155</td>
<td>Business Finance</td>
<td>3</td>
<td>HIST 2111 or HIST 2112</td>
<td>Survey of US History</td>
<td>3</td>
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<tr>
<td>MGMT 3165</td>
<td>Management of Organizations</td>
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<td>Prerequisite: None</td>
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<td>POLS 1101</td>
<td>American Government</td>
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<td>General Business Elective**</td>
<td>Prerequisite: varies</td>
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<tbody>
<tr>
<td>CISM 3325*</td>
<td>Data Communication and Computer Networks</td>
<td>3</td>
<td>Analytics or CIS Track**</td>
<td>CISM elective</td>
<td>3</td>
<td>*course must be passed with grade C or higher</td>
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<td>CISM elective</td>
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<tr>
<td>BUSA 3145</td>
<td>Global Business Issues</td>
<td>3</td>
<td>BUSA 4126*</td>
<td>Business Policy</td>
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<td>MGMT 3185</td>
<td>Operations Management</td>
<td>3</td>
<td>Free elective</td>
<td>Any Ssu course</td>
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<td>Prerequisite: varies</td>
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Notes on the program:
- Students should visit Career Services for resume update, mock interview opportunities, and access to job search boards.
- Students should have a job in their major field by graduation or been accepted into graduate school.
- Degree Program: 120 credit hours required for the degree.

*course must be passed with grade C or higher
**Choose two for Analytics Track:
- CISM/DATA 3109
- CISM/DATA 3110
- GLIB 3196
- CISM 4138
- CISM 4150
- BUSA 4900/STAB 4101
- any CISM elective

Notes about lab science:
- Students may not receive credit for both BIOL 1011K and BIOL 1103; these are the same class. BIOL without lab may be used as non-lab science, but may not be split to cover both science requirements.

Notes about course requirements:
- Students should submit graduation application to COBA.
- Students should become a Sophomore at end of term.
- Students should become a Junior at end of term.
- Students should have Junior standing or 42 earned hrs + Completion of Area F
- Students should visit Career Services for resume update, mock interview opportunities, and access to job search boards.
- Students should have a job in their major field by graduation or been accepted into graduate school.
Core Curriculum

Area A – Essential Skills 9 hrs
  i. ENGL 1101 English Composition I 3 hrs
  ii. ENGL 1102 English Composition II 3 hrs
  iii. MATH 1111 College Algebra 3 hrs

Area B – Institutional Options 5 hrs
  i. AFRS 1501 Survey of African-American Experience 2 hrs
  ii. HUMN 1201 Critical Thinking & Communication 3 hrs

Area C – Humanities/Fine Arts, and Ethics 6 hrs,
  1. Select one of the following:
     i. ENGL 2111 World Literature I 3 hrs
     ii. ENGL 2112 World Literature II 3 hrs
     iii. ENGL 2121 British Literature I 3 hrs
     iv. ENGL 2122 British Literature II 3 hrs
     v. ENGL 2131 American Literature I 3 hrs
     vi. ENGL 2132 American Literature II 3 hrs
     vii. ENGL 2222 African American Literature 3 hrs
     viii. PHIL 2010 Introduction to Philosophy 3 hrs
     ix. PHIL 2030 Introduction to Ethics 3 hrs
  2. Select one of the following:
     i. ARTS 1101 Introduction to Visual Art 3 hrs
     ii. DNCE 2010 Dance Appreciation 3 hrs
     iii. ENGL 2521 Introduction to Film 3 hrs
     iv. HUMN 2011 Humanities 3 hrs
     v. MUSC 1101 Introduction to Music 3 hrs
     vi. THEA 2101 Introduction to Theatre 3 hrs

Area D – Natural Sciences, Math & Technology 10 hrs
  1. Select one of the following:
     i. CISM 1130 Computer Applications 3 hrs
     ii. CSCI 1130 Computer Applications 3 hrs
  2. Select one of the following:
     i. ASTR 1000 Introduction to the Universe 3 hrs
     ii. BIOL 1103 General Biology 3 hrs
     iii. BIOL 1104 Human Biology 3 hrs
     iv. CSCI 1301 Computer Science I 3 hrs
     v. ENVS 1140 Environmental Issues 3 hrs
     vi. FSCI 1101 Introduction to Molecular Forensic Science 3 hrs
     vii. ISCI 1101 Integrated Science I 3 hrs
  3. Select one of the following lab sciences:
     i. BIOL 1103 + 1103L General Biology with lab 4 hrs
     ii. BIOL 1104 + 1104L Human Biology with lab 4 hrs
     iii. CHEM 1101K Introductory Chemistry 4 hrs
     iv. ISCI 1111K Integrated Science II 4 hrs
     v. MSCI 1501K Introduction to Marine Biology 4 hrs
     vi. PHSC 1011K Physical Science I 4 hrs
     vii. PHYS 1111K Introductory Physics I 4 hrs

Area E – Social Science 12 hrs
  i. POLS 1101 American Government 3 hrs
  ii. ECON 2105 Principles of Macro Economics 3 hrs
  3. Select one of the following:
     i. HIST 2111 U.S. History to the Post-Civil War Period 3 hrs
     ii. HIST 2112 U.S. History from the Post-Civil War to Pre 3 hrs
  4. Select one of the following:
     i. AFRS 2000 Introduction to Africana Studies 3 hrs
     ii. ANTH 1101 Introduction to Anthropology 3 hrs
     iii. GEOG 1101 Introduction to Human Geography 3 hrs
     iv. HIST 1111 World Hist to Early Modern Times 3 hrs
     v. HIST 1112 World History Early Modern Times to Pres 3 hrs
     vi. POLS 2401 Global Issues 3 hrs
     vii. PSYC 1101 Intro to General Psychology 3 hrs
     viii. PSYC 2103 Human Growth & Development 3 hrs
  ix. SOCI 1101 Introduction to Sociology 3 hrs
  x. SOCI 1160 Social Problems 3 hrs

Distinctive Courses in this Major

CISM 2137 System Analysis & Design 3 Credits
This course will introduce the business student to the management information system theory, the hardware and software systems available for meeting the information systems requirements, and the use of application software (spreadsheets and databases) to solve information problems and meet requirements. The emphasis is primarily on using a microcomputer through practical, hands-on operation thereby providing experience in the use of computers in higher-level college courses and a business environment.

CISM 3140 Introduction to Programming: Visual Basic 3 Credits
Introduction to the planning and creation of computer programs for solving business-related problems. Emphasis on problem analysis and structured programming techniques. Topics include the visual programming environment, event-driven programming, file processing, database processing, error handling, objects and class libraries. Students utilize a procedural programming language.

CISM 3232 Web Application Development 3 Credits
This course is an introduction to developing Web application. As such, this course is designed to provide basic concepts (e.g., client-server computing) and technologies. This course also introduces students to the languages and Web developing software used to create web pages.

CISM 3325 Data Communication & Computer Networks 3 Credits
This course provides an introduction to the principles and techniques of data communications and computer networks. The course covers the topics of transmission media and modes, communication protocols, and network architecture. It will also cover the day-to-day administrative tasks necessary to maintain a business computer network. Creating user and group accounts, profiles, access permissions, resource auditing, backup, recovery and network printers will also be covered.

CISM 4137 Database Design & Implementation 3 Credits
An introduction to the concept of database processing. The topics covered in this course are the components of database systems (DBMS), the entity/relationship diagrams, semantic object models as well as normalization and the relational model.

CISM 4200 Project Management 3 Credits
This course is designed to help students learn technologies and methodology to initiate, plan, monitor and execute projects. Students will learn and exercise to develop a comprehensive project plan, including tasks with time, cost, and quality measures throughout the course. Project management tools will be employed by the team to ensure tracking of the project and communication of project goals and accomplishments to the client. Students will learn from real-world cases and work on a number of software, including but not limited to, Microsoft products and Visio.