

Degree: Bachelor of Science College: Science, Technology, and Business Major: Computer Information Systems Major Code: CISY Concentration: N/A

Minor: N/A Minor Code: N/A

## **General Education**

# **Program Requirements**

Foundations: (12 Credits)	Required Major Courses: (40 Credits)
Oral Communication (3 Credits)	<ul> <li>CMIS 1200 Application Programming I</li> <li>CMIS 2200 Application Programming II</li> </ul>
Quantitative Reasoning (3 Credits)	CMIS 3000 Principles of Responsible Computing
MATH 1510 Discrete Structures	CMIS 3125 Systems Analysis and Design
Technological Literacy (3 Credits) <ul> <li>CMIS 1100 Introduction to Information Systems</li> </ul>	CMIS 3150 Database Design and Modeling
Written Communication (3 Credits)	CMIS 3200 Database Application Programming
ENGL 1200 College Composition	CMIS 3250 CISCO CCNA 1
	CMIS 3500 Web Programming I
Discoveries: (Credits 27)	CMIS 3600 Systems Project Management
Art/Humanities (9 Credits)	CMIS 4500 Web Programming II
	CMIS 4250 Appl of Machine Learning and Deep Learning
	CMIS 4900 Senior Capstone I
	CMIS 4920 Senior Capstone II
Natural Sciences & Technology (9 Credits)	Major Electives: (11 Credits) Select from the following:
QBA 1000 or GEOG 2150	**See note on 2nd page ** CMIS 3260 CISCO CCNA II, CMIS 3270 CISCO CCNA III, CMIS 3340
□ STAT 2020 or STAT 2010	COBOL, CMIS 3720 Decision Support System, CMIS 4720 ERP,
	CMIS 4950 CIS Internship, CMIS 3990 Special Topics in Inf Sys, CMSC 3380 Python, CMAC 3740 Mobile Application Development,
Social Sciences (9 Credits)	DSA 5100 Database Mgmt Systems & Data Warehousing, DSA
ECON 1000, 2100, 2200 or GEOG 1050 or 1110	5200 Python Programming for Data Science, DSA 5300 Analytical
	Methods & Optimization, DSA 5400 Applied Data Mining, PSC 6000 Operating Systems, PSM 6450 Applied Cryptography, PSC
	7350 Biometrics, PSC 7450 Cyber Risk Mgmt & Assess, PSC 7550
	Wireless Network & Security
Elective/Wellness & Personal Health: (3 Credits)	Related Electives: (9 Credits) Select from the following:
CMAC 2000 Intro to Cybersercurity	Business Track: MGMT 3000 - Introduction to Management and
Competencies: Applied Methodologies	Choose one from any 2000-3000 level ACCT or FINA <b>and</b> Choose one from any 2000-3000 level BLAW, BSIN, MKTG or IENT
CMIS 4250 or CMIS 4920	Geosciences Track:
Ethical Reasoning	GGIS 1510 Geo Business or GEOG 3420 Envrn Disasters & Mapping, And choose any two from: GGIS 1210 Mapping Our Environment,
CMIS 3000 Principles of Responsible Computing	GGIS 2300 Environmental Remote Sensing, GGIS 3050 Spatial
Information Literacy <ul> <li>CMIS 3000 Principles of Responsible Computing</li> </ul>	Methods in Energy & Natural Resources, GGIS 2100 Geographic Information Systems, or GGIS 3110 Geospatial Data Handling &
Intercultural Fluency	Integration, or GEOG 3420 Environmental Disasters & Mapping
CMIS 4900 Senior Capstone I	
Keystone Experience	Free Electives: (18 Credits)
CMIS 4920 Senior Capstone II	
Quantitative Applications	
CMIS 4250 Appl of Machine Learning and Deep Learning	
Writing Intensive CMIS 4900 Senior Capstone I	
~And~ one of the following:	
ENGL 3230, ENGL 3240 or CMAC 3010	□ Updated 7/16/2024

## **Suggested Four Year Course Sequence**

### Year 1

#### Fall Semester

CMIS 1100 Introduction to Information Systems CMIS 1200 Application Programming I ENGL 1200 College Composition COMJ 1010 Public Speaking STAT 2020 Elements of Statistics ~Or~ STAT 2010 Business Statistics

#### Spring Semester

CMIS 2200 Application Programming II CMAC 2000 Introduction to Cybersecurity MATH 1510 Discrete Structures QBA 1000 QBA-1 Optimization ~Or~ GEOG 2150 Conservation of Natural Resources ENGL 3230 Technical Writing ~Or~ ENGL 3240 Workplace Writing

### Year 3

#### Fall Semester

CMIS 3000 Responsible Computing CMIS 3150 Database Design & Modeling CMIS 3500 Web Programming I CMIS 3600 Systems Project Management Discoveries - Arts And Humanities

#### **Spring Semester**

CMIS 4900: Senior Capstone CIS Major Elective CIS Major Elective Related Elective Free Elective

#### **Program Note:**

Restrictions apply for the allowed number of graduate credits (level DSA, PSM and PSC courses) allowed for an undergraduate major and only a maximum of 4 credits of CMIS 4950 will be allowed for electives

## Year 2

#### Fall Semester

ECON 1000 Elements of Economics ~Or~ ECON 2100 Principles of Microeconomics, ECON 2200 Principles of Macroeconomics, GEOG 1050 People & The Planet, or GEOG 1110 World Geography CMIS 3250 Cisco CCNA I MGMT 3000 Principles of Management ~Or~ GGIS 1510 Geo Business Discoveries - Social Science Discoveries - Social Science

#### **Spring Semester**

CMIS 3125 Systems Analysis and Design Discoveries - Natural Science & Technology Discoveries - Arts and Humanities Discoveries - Arts and Humanities Free Elective

### Year 4

#### Fall Semester

CMIS 3200 Database Application Programming CMIS 4500 Web Programming II CMIS 4250 Applications of Machine Learning Related Elective Free Elective

#### Spring Semester

CMIS 4920: Senior Capstone II CIS Major Elective CIS Major Elective Free Elective Free Elective

