

Degree: Bachelor of Science

College: Science, Technology, and Business **Major:** Computer Information Systems

Major Code: CISY

Minor: N/A

Concentration: N/A

Minor Code: N/A

Credits Required: 120

General Education Program Requirements

Foundations: (12 Credits)	Required Major Courses: (40 Credits)
Oral Communication (3 Credits)	☐ CMIS 1200 Application Programming I
☐ COMJ 1010 Public Speaking	☐ CMIS 2200 Application Programming II
Quantitative Reasoning (3 Credits)	☐ CMIS 3000 Principles of Responsible Computing
☐ MATH 1510 Discrete Structures	☐ CMIS 3125 Systems Analysis and Design
Technological Literacy (3 Credits)	
☐ CMIS 1100 Introduction to Information Systems	☐ 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
<u>Discoveries:</u> (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 **
☐ STAT 2020 or STAT 2010	CMIS 3260 CISCO CCNA II , CMIS 3270 CISCO CCNA III, CMIS 3340 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)	
☐ CMAC 2000 Intro to Cybersercurity	Related Electives: (9 Credits) Select from the following:
	Business Track:
Commenteration	MGMT 3000 - Introduction to Management and Choose one from any 2000-3000 level ACCT or FINA and
Competencies:	Choose one from any 2000-3000 level BLAW, BSIN, MKTG or IENT
Applied Methodologies	Geosciences Track:
☐ CMIS 4250 or CMIS 4920 Ethical Reasoning	GGIS 1510 Geo Business or GEOG 3420 Envrn Disasters & Mapping,
☐ CMIS 3000 Principles of Responsible Computing	And choose any two from: GGIS 1210 Mapping Our Environment,
Information Literacy	GGIS 2300 Environmental Remote Sensing, GGIS 3050 Spatial Methods in Energy & Natural Resources, GGIS 2100 Geographic
☐ CMIS 3000 Principles of Responsible Computing	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:	□ 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

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

Year 2

Fall Semester

Spring Semester

Discoveries - Social Science

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

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

