

ENGL 3230, ENGL 3240 or CMAC 3010

Degree: Bachelor of Science

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

Major Code: CISY Concentration: N/A

# **Program Requirements**

Minor: N/A

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Credits Required: 120

<b>General Education</b>	Program Requirements
Foundations: (12 Credits)	Required Major Courses: (40 Credits)
Oral Communication (3 Credits)  COMJ 1010 Public Speaking	☐ CMIS 1200 Application Programming I
Quantitative Reasoning (3 Credits)	☐ CMIS 2200 Application Programming II
MATH 1510 Discrete Structures	☐ CMIS 3000 Principles of Responsible Computing
Technological Literacy (3 Credits)	☐ CMIS 3125 Systems Analysis and Design
☐ 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
Discoveries (Credite 27)	☐ CMIS 3600 Systems Project Management
<u>Discoveries:</u> (Credits 27)  At least two (2) disciplines must be represented within each of the	
three (3) categories.	☐ CMIS 4500 Web Programming II
Art/Humanities (9 Credits)	☐ 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:  **See note on 2nd page **
☐ QBA 1000 or GEOG 2150 ☐ 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, DSA 5100 Database Mgmt Systems & Data Warehousing, DSA
Social Sciences (9 Credits)  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:
	MGMT 3000 - Introduction to Management and
<u>Competencies:</u>	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
Applied Methodologies	
☐ CMIS 4250 or CMIS 4920	Geosciences Track: GGIS 1510 Geo Business or GEOG 3420 Envrn Disasters & Mapping,
Ethical Reasoning	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	Methods in Energy & Natural Resources, GGIS 2100 Geographic Information Systems, or GGIS 3110 Geospatial Data Handling &
☐ CMIS 3000 Principles of Responsible Computing	Integration, or GEOG 3420 Environmental Disasters & Mapping
Intercultural Fluency	
☐ CMIS 4900 Senior Capstone I	Free Electives: (18 Credits)
Keystone Experience	
☐ CMIS 4920 Senior Capstone II	
Quantitative Applications	
☐ CMIS 4250 Appl of Machine Learning and Deep Learning	
Writing Intensive - Two (2) courses are required	
<ul><li>☐ CMIS 4900 Senior Capstone I</li><li>☐ ~And~ one of the following:</li></ul>	
ENGL 2220 ENGL 2240 or CMAC 2010	□ 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 2

### **Fall Semester**

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 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 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 Notes:**

Students must have a minimum grade of "C" in the following courses:

ENGL 1200, MATH 2410, CMSC 1200, CMAC 1240, CMSC 2040, CMSC 2100, CMSC 3040, CMSC 3100, CMSC 3240, CMSC 4140, CMSC 4900, MATH 1510

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

