

General Education

Foundations: (12 Credits)

Oral Communication: (3 Credits)

- ☐ COMJ 1010 Public Speaking

Quantitative Reasoning: (3 Credits)

- ☐ MATH 1510 Discrete Structures

Technological Literacy: (3 Credits)

- ☐ CMAC 1200 Problem Solving and Programming

Written Communication: (3 Credits)

- ☐ ENGL 1200 College Composition

Discoveries: (Credits 27)

At least two (2) disciplines must be represented within each of the three (3) categories.

Art/Humanities: (9 Credits)

- ☐ PHIL 3000 Formal Logic

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☐ _____

Natural Sciences & Technology: (9 Credits)

- ☐ MATH 2410 Analytical Geometry and Calculus

- ☐ STAT 2020 Elements of Statistics

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Social Sciences: (9 Credits)

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Elective/Wellness & Personal Health: (3 Credits)

- ☐ CMAC 2000 Introduction to Cybersecurity

Competencies:

Applied Methodologies

- ☐ CMSC 4920 Senior Project II

Ethical Reasoning

- ☐ CMAC 3000 Principles of Responsible Computing

Information Literacy

- ☐ CMAC 4900 Senior Project I

Intercultural Fluency

- ☐ Any Course

Keystone Experience

- ☐ CMAC 4920 Senior Project II

Quantitative Applications

- ☐ PHIL 3000 Formal Logic

Writing Intensive

- ☐ CMAC 4900 Senior Project I

- ☐ ENGL 3230 Technical Writing

Program Requirements

Required Major Courses: (39 Credits)

- ☐ CMAC 1240 Computer Programming I
- ☐ CMAC 2040 Object-Oriented Programming
- ☐ CMAC 3000 Principles of Responsible Computing
- ☐ CMAC 3040 Data Structures
- ☐ CMAC 3090 Computer Architecture and Assembly Language
- ☐ CMAC 3140 Analysis of Algorithms
- ☐ CMAC 3180 Data Communication and Networking
- ☐ CMAC 3200 Database Application Programming
- ☐ CMAC 3500 Web Programming I
- ☐ CMAC 4000 Operating Systems
- ☐ CMAC 4900 Senior Project I
- ☐ CMAC 4920 Senior Project II
- ☐ ENGL 3230 Technical Writing
 - ☐ Or CMAC 3010 Structured System Documentation

Major Electives: (21 Credits) Select seven (7) from the following:

CMAC 2100,CMAC 2600,CMAC 3320,CMAC 3380,CMAC 3580,CMAC 3640,CMAC 3700,CMAC 3720, CMAC 3730,CMAC 3740,CMAC 3780,CMAC 3830,CMAC 3990,CMAC 4120,CMAC 4140,CMAC 4180,CMAC 4200,CMAC 4250,CMAC 4500,CMAC 4640,CMAC 4680,CMAC 4950

Free Electives: (18 Credits)

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

Suggested Four Year Course Sequence

Year 1

Fall Semester

CMAC 1200 Problem Solving & Programming Constructs
ENGL 1200 College Composition
COMJ 1010 Public Speaking
MATH 1510 Discrete Structures
General Education Course

Spring Semester

CMAC 1240 Computer Programming I
CMAC 2000 Introduction to Cybersecurity
STAT 2020 Elements of Statistics
PHIL 3000 Formal Logic
General Education Course

Year 3

Fall Semester

CMAC 3200: Database Programming
CMAC 3180 Data Communication and Networking
Or CMAC 4000 Operating Systems
CMAC Elective
ENGL 3230 Technical Writing
Or CMAC 3010 Structured System Documentation
Arts & Humanities/Social Science Course

Spring Semester

CMAC 3140 Analysis of Algorithms
Or CMAC Elective
CMAC Elective Course
CMAC Elective Course
Arts & Humanities/Social Science Course
Free Elective
Free Elective

Year 2

Fall Semester

CMAC 2040 Object-Oriented Programming
CMAC Elective
Math leading towards MATH 2410
Intercultural AND Arts & Humanities/Social Sciences
Course
General Education Course

Spring Semester

CMAC 3090 Computer Architecture and Assembly Language
CMAC 3040 Data Structures
CMAC 3500 Web Programming 1
MATH 2410 Calculus I
If already taken, choose Natural Science/Tech
Elective.
Free Elective

Year 4

Fall Semester

CMAC 4900 Senior Project I
CMAC 3180 Data Communication and Networking
Or~ CMAC 4000 Operating Systems
CMC Elective
CMAC Elective
Free Elective

Spring Semester

CMAC 3000 Principles of Responsible Computing
CMAC 4920 Senior Project II
CMAC Elective Course
Or~CMAC 3140 Analysis of Algorithms
Free Elective
Free Elective

