

General Education

Foundations: (13 Credits)

Oral Communication: (3 Credits)

- COMJ 1010 Public Speaking

Quantitative Reasoning: (4 Credits)

- MATH 2410 Calculus I

Technological Literacy: (3 Credits)

- CMSC 1200 Problem Solving and Prog Constructs

Written Communication: (3 Credits)

- ENGL 1200 College Composition

Discoveries: (28 Credits)

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

Art/Humanities: (9 Credits)

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- _____
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Natural Sciences & Technology: (10 Credits)

- MATH 2420 Calculus II
- One class in: ATMS 1100, BIOL 2810, BIOL 3810, CHEM 1108, CHEM 1128, GEOL 1500, PHYS 2500/2510, PHYS 2600/2610.

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- MATH 1510 Discrete Structures**

Social Sciences: (9 Credits)

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Elective/Wellness & Personal Health: (3 Credits)

- CMAC 1240 or CMSC 1240 Computer Programming I

Competencies:

Applied Methodologies

- CMSC 4920 Senior Project II

Ethical Reasoning

Information Literacy

- CMSC 4900 Senior Project I: Software Engineering

Intercultural Fluency

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Keystone Experience

- CMSC 4920 Senior Project II

Quantitative Applications

- MATH 2420 Calculus II

Writing Intensive - Two (2) courses are required

- CMSC 4900 Senior Project I: Software Engineering
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Program Requirements

Required Major Courses: (48 Credits)

- CMSC 2040 Object Oriented Programming
- CMSC 2100 Logic & Switching Theory of the Computer
- CMSC 3040 Data Structures
- CMSC 3100 Assembly
- CMSC 3140 Analysis of Algorithms
- CMSC 3180 Data Communication and Networking
- CMSC 3240 Computer Architecture
- CMSC 3320 Technical Computing Using Java
- CMSC 4000 Operating Systems
- CMSC 4080 Structures of Programming Languages
- CMSC 4140 Theory of Languages
- CMSC 4180 Language Translation
- CMSC 4900 Senior Project I: Software Engineering
- CMSC 4920 Senior Project II
- MATH 3210 Linear Algebra I
- STAT 2020 Elements of Statistics
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Major Electives: (6 Credits)

Select at most **one (1)** course from the following:

CMIS 3340 COBOL, **CMSC** 3360 Fortran, **CMSC** 3380 Python, **CMSC** 3700 2D Game Programming, **CMSC** 3720 3D Game Programming, or **CMSC** 4950 Internship.

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Select at least **one (1)** course from the following:

CMIS 3200 Database Application Programming, **CMSC** 3780 Computer Graphics, **CMSC** 3990 Special Topics in Computer Science, **CMSC** 4120 Parallel Processing, or **CMSC** 4200 Artificial Intelligence

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Free Electives: (22 Credits)

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Program Note:

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