| General Education |
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| Foundations: (12 Credits) |
| Oral Communication (3 Credits) |
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| Written Communication (3 Credits) |
| $\square$ ENGL 1200 College Composition |
| Quantitative Reasoning (3 Credits) |
| $\square$ MATH 1510 Discrete Structures |
| Technological Literacy (3 Credits) |
| $\square$ CMAC 1200 Prob. Solving \& Prog. Concepts |
| Discoveries: (Credits 28) |
| Art/Humanities (9 Credits) |
| $\square$ ART 1200 3D Design |
| $\square$ |
| $\square$ |

## Social Sciences (9 Credits)

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## Natural Sciences \& Technology ( 10 Credits)

$\square$ MATH 2410 Calculus I
$\square$ STAT 2020 Elements of Statistics

## Wellness \& Personal Health: (3 Credits)

$\square$ CMAC 2000 Introduction to Cybersecurity

## Competencies:

Quantitative Applications
$\square$ PHIL 3000 Formal Logic recommended
Applied Methodologies
$\square$ CMSC 4920 Senior Project II
Intercultural Fluency
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## Ethical Reasoning

$\square$ CMAC 3000 Principles of Resp Comp Information Literacy
$\square$ CMAC 4900 Senior Project I
Writing Intensive
$\square$ CMAC 4900 Senior Project \& ENGL 3230 Technical Writing Keystone Experience
$\square$ CMAC 4920 Senior Project II

## Program Requirements

## Required Major Courses: (39 Credits)

$\square$ CMAC 1240 Computer Programming I
CMAC 2040 Object-Oriented Prog
CMAC 3000 Principles of Responsible Computing
CMAC 3040 Data Structures
CMAC 3100 Assembly/Architecture
CMAC 3140 Analysis of Algorithms
CMAC 3200 Database Application Prog
CMAC 3500 Web Programming I
CMAC 4900 Senior Project I
CMAC 4920 Senior Project II
ENGL 3230 Technical Writing
Two Courses from ART or Two Courses from ENGL: ART 1106 Drawing I, ART 2112 Surface Design, ART 3208 Designing for the Web, ART 3915 2D Animation Special Topics, ART 3916 3D Animation Special Topics, ART 4008 Motion Design, ENGL 1300 Introduction to Literature, ENGL 1301 Introduction to Fiction, ENGL 2205 Writing in the Genres, ENGL 2400 Introduction to Creative Writing, ENGL 2260 Writing Argument and Persuasion, ENGL 2270 Digital Storytelling, ENGL 4400 Studies in Advanced Creative Writing
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## Required Concentration Courses: (15 Credits)

$\square$ CMAC 3700 2D Game ProgrammingCMAC 3720 3D Game ProgrammingCMAC 3740 Mobile Application DevelopmentCMAC 3780 Computer GraphicsCMAC 4200 Artificial Intelligence

## Major Electives: ( 6 Credits)

Choose Two: CMAC 2100 Log \& Switch Theory, CMAC 3180 Data Comm and Network, CMAC 3320 Tech Computing Using Java, CMAC 3380 Python, CMAC 3580 Systems Programming, CMAC 3640 Computer Forensic/Incident Res, CMAC 3830 Intro to Machine Learning, CMAC 3990 Special Topics in CS, CMAC 4000 Operating Systems, CMAC 4120 Parallel Processing, CMAC 4140 Theory of Languages, CMAC 4180 Language Translation, CMAC 4500 Web Programming II, CMAC 4640 Info Systems Audit \& Security, CMAC 4680 Security Management, CMAC 4950 Internship
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## Free Electives: (17 Credits)

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## Year 1

## Fall Semester

CMAC 1200: Problem Solving \& Programming Constructs
ENGL 1200: College Composition
COMJ 1010: Public Speaking
MATH 1510: Discrete Structures
Art 1200: 3 Dimensional Design

## Spring Semester

CMAC 1240: Computer Programming I
CMAC 2000: Introduction to Cybersecurity
STAT 2020: Elements of Statistics
PHIL 3000: Formal Logic
Art/Writing Required Course

## Year 2

## Fall Semester

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

## Spring Semester

CMAC 3100: Assembly Programming/Computer Organization
CMAC 3040: Data Structures
CMAC 3500: Web Programming 1
Art/Writing Required Course
Math leading towards MATH 2410

## Year 4

## Fall Semester

CMAC 3200: Database Programming
CMAC 3700: 2D Game Programming
---> OR CMAC 3720: 3D Game Programming
CMAC Elective
ENGL 3230 Technical Writing
Free Elective

## Spring Semester

CMAC 4900: Senior Project 1
CMAC 3700: 2D Game Programming ---> OR CMAC 3720: 3D Game Programming
CMAC 3000: Principles of Responsible Computing
Free Elective
Free Elective

## Year 3

