

COMPUTER SCIENCE (BS) BIOMETRICS SPECIALTY

2014-2015 RECOMMENDED PROGRAM SEQUENCE (Full-time) 120 CREDITS

COMP SCIE BS

| | FRESHMAN YEAR | | | | | | |
|---------------|--|--------------|-------------------------|---|--------------|--|--|
| Fall Semester | | (16 credits) | Winter Semester | | (16 credits) | | |
| ACES100 | Achieving Career and Education Success | 3 | COMM120 | Presentation Techniques | 3 | | |
| BIOL120 | Essentials of Anatomy and Physiology | 4 | ENGL110 | Advanced Composition | 3 | | |
| CISP111 | Requirements Planning and Development | 3 | IAAS221 | Security Foundations | 3 | | |
| ENGL109 | Composition | 3 | MATH150 | Pre-Calculus | 4 | | |
| MATH125 | Intermediate Algebra | 3 | PHYS100 and PHYS100L | Applied Physics and Applied Physics Lab | 3 | | |

| | SOPHOMORE YEAR | | | | | | |
|---|-----------------------------|---|---------|-------------------------|---|--|--|
| Fall Semester (16 credits) Winter Semester (15 credits) | | | | | | | |
| CISP250 | Discrete Structures | 3 | CISP247 | Database Design | 3 | | |
| CSCI222 | Biometric Fundamentals | 3 | CSCI234 | C# Programming II | 3 | | |
| CSCI231 | Introduction to Programming | 3 | CSCI260 | Software Engineering | 3 | | |
| MATH215 | Calculus I | 4 | CSCI280 | Artificial Intelligence | 3 | | |
| | Open Elective | 3 | MATH205 | Applied Linear Algebra | 3 | | |

| JUNIOR YEAR | | | | | | |
|-------------|----------------------------|--------------|------------|----------------------------------|--------------|--|
| Fall Semes | ter | (15 credits) | Winter Sen | nester | (15 credits) | |
| CSCI350 | Biometric Algorithms | 3 | BUSN210 | Professional Ethics | 3 | |
| ENGL311 | Professional Writing | 3 | CSCI312 | Data Structures and Algorithms | 3 | |
| SOSC201 | Diversity in Society | 3 | CSCI326 | Biometric Spoofing | 3 | |
| STAT220 | Introduction to Statistics | 3 | GPMT287 | Principles of Project Management | 3 | |
| | Open Elective | 3 | | Open Elective | 3 | |

| SENIOR YEAR | | | | | | | |
|-------------|-----------------------------------|---------------|------------------|---------------------------|---|--|--|
| Fall Semes | ster_ | <u>nester</u> | (15 credits) 3 3 | | | | |
| CSCI380 | Computer Vision | 3 | CSCI411 | Pattern Recognition II | 3 | | |
| CSCI410 | Pattern Recognition I | 3 | CSCI425 | Biometric Architectures | 3 | | |
| SOSC301 | Globalization and World Diversity | 3 | CSCI446 | Advances in Biometrics | 3 | | |
| TECH489 | Field Experience in Technology | 3 | CSCI497 | Computer Science Capstone | 3 | | |
| | | | | Open Elective | 3 | | |



COMPUTER SCIENCE (BS) GAMING AND SIMULATION SPECIALTY

2014-2015 RECOMMENDED PROGRAM SEQUENCE (Full-time) 120 CREDITS

COMP SCIE BS

| FRESHMAN YEAR | | | | | | |
|---|--|---|-------------------------|---|---|--|
| Fall Semester (15 credits) Winter Semester (16 cred | | | | | | |
| ACES100 | Achieving Career and Education Success | 3 | ENGL110 | Advanced Composition | 3 | |
| CISP111 | Requirements Planning and Development | 3 | COMM120 | Presentation Techniques | 3 | |
| ENGL109 | Composition | 3 | MATH140 | Finite Mathematics | 3 | |
| MATH125 | Intermediate Algebra | 3 | MATH150 | Pre-Calculus | 4 | |
| | Open Elective | 3 | PHYS100 and PHYS100L | Applied Physics and Applied Physics Lab | 3 | |

| | SOPHOMORE YEAR | | | | | | |
|------------|--|---|---------|-------------------------------------|---|--|--|
| Fall Semes | Fall Semester (15 credits) Winter Semester | | | | | | |
| CISP247 | Database Design | 3 | CSCI234 | Object-Oriented Programming with C# | 3 | | |
| CISP250 | Discrete Structures | 3 | CSCI258 | Introduction to Game Design | 3 | | |
| CSCI231 | Introduction to Programming | 3 | MATH205 | Applied Linear Algebra | 3 | | |
| CSCI244 | Introduction to Game Theory | 3 | STAT220 | Introduction to Statistics | 3 | | |
| MATH215 | Calculus I | 4 | | Open Elective | 3 | | |

| JUNIOR YEAR | | | | | | | |
|-------------|--------------------------------|--------------|-----------------|----------------------------------|--------------|--|--|
| Fall Semes | ster | (15 credits) | Winter Semester | | (15 credits) | | |
| CSCI312 | Data Structures and Algorithms | 3 | CSCI280 | Artificial Intelligence | 3 | | |
| CSCI260 | Software Engineering | 3 | CSCI370 | 3D Game Development | 3 | | |
| CSCI335 | 2D Game Development | 3 | CISP246 | 3D Modeling | 3 | | |
| SOSC201 | Diversity in Society | 3 | GPMT287 | Principles of Project Management | 3 | | |
| | Open Elective | 3 | | Open Elective | 3 | | |

| SENIOR YEAR | | | | | | | |
|-------------|--|---|---------|---|---|--|--|
| Fall Semes | Fall Semester (15 credits) Winter Semester | | | | | | |
| CISP340 | Mobile Application Development I | 3 | BUSN210 | Professional Ethics | 3 | | |
| CSCI448 | Collaborative Game Development | 3 | CSCI340 | Introduction to Modeling and Simulation | 3 | | |
| SOSC301 | Globalization and World Diversity | 3 | CSCI497 | Computer Science Capstone | 3 | | |
| TECH489 | Field Experience in Technology | 3 | ENGL311 | Professional Writing | 3 | | |
| | Open Elective | 3 | | Open Elective | 1 | | |