

# Year One

## Fall Semester

## Spring Semester

| Course Code        | Course Title                                | Credit Hours | Course Code        | Course Title                         | Credit Hours |
|--------------------|---------------------------------------------|--------------|--------------------|--------------------------------------|--------------|
| ICTC 1302          | Information & Computing Technology Concepts | 3            | COMM 1302          | Communication Skills II              | 3            |
| LOGC 1202          | Digital Logic Concepts                      | 2            | MATH 1305          | Calculus II                          | 3            |
| ARTS XXXX          | Arts & Design                               | 2            | BSCS 1330          | Discrete Structures                  | 3            |
| COMM 1301          | Communication Skills I                      | 3            | BSCS 1350          | Introduction to Programming          | 3            |
| ARAB XXXX          | Arabic Studies                              | 3            | BSCS 1320          | Computer Architecture & Organization | 3            |
| MATH 1304          | Calculus I                                  | 3            | BSCY 1310          | Fundamentals of Cybersecurity        | 3            |
| BSCS 1160          | Compuer Ethics & Society                    | 1            |                    |                                      |              |
| Total Credit Hours |                                             | 17           | Total Credit Hours |                                      | 18           |

# Year Two

# Year One

Fall Semester

Spring Semester

Fall Semester

Spring Semester

| Course Code        | Course Title                | Credit Hours | Course Code        | Course Title                    | Credit Hours |
|--------------------|-----------------------------|--------------|--------------------|---------------------------------|--------------|
| Math 1306          | Linear Algebra              | 3            | ARAB XXXX          | Arabic Studies                  | 3            |
| CHEM 1301          | Chemistry                   | 3            | XXXX XXXX          | Required Gen. Ed Electives      | 3            |
| STAT 2301          | Statistics                  | 3            | PHYS 1301          | Physics                         | 3            |
| BSCS 2355          | Object-Oriented Programming | 3            | BSCS 2375          | Networking & Data Communication | 3            |
| BSCS 2351          | Fundamental Data Structures | 3            | BSCS 2310          | Analysis of Algorithms          | 3            |
| BSCS 2370          | Operating Systems           | 3            | BSIS 2340          | IS Project Management           | 3            |
| Total Credit Hours |                             | 18           | Total Credit Hours |                                 | 18           |

Year Three

Fall Semester

Spring Semester

| Course Code        | Course Title                        | Credit Hours | Course Code        | Course Title                     | Credit Hours |
|--------------------|-------------------------------------|--------------|--------------------|----------------------------------|--------------|
| EMOI 1201          | Emotional Intelligence              | 2            | XXXX<br>XXXX       | Required Gen. Ed Electives       | 3            |
| ISLS XXXX          | Islamic Studies                     | 3            | XXXX<br>XXXX       | Free Elective                    | 3            |
| BSCS 3340          | Computer Graphics and Visualization | 3            | ISLS<br>XXXX       | Islamic Studies                  | 3            |
| BSCS 3345          | Human Computer Interaction          | 3            | BSIS<br>3320       | Database Management Systems      | 3            |
| BSCS 3380          | Artificial Intelligence             | 3            | BSCS<br>3330       | Computational Science Principles | 3            |
| BSCS 3365          | Software Engineering                | 3            | BSCS<br>3385       | Machine Learning                 | 3            |
| Total Credit Hours |                                     | 17           | Total Credit Hours |                                  | 18           |

Year Four

Fall SemesterSpring Semester

| Course Code        | Course Title                       | Credit Hours | Course Code        | Course Title               | Credit Hours |
|--------------------|------------------------------------|--------------|--------------------|----------------------------|--------------|
| ISLS XXXX          | Islamic Studies                    | 2            | BBBF 1101          | Basic Brain & Body Fitness | 1            |
| ENTR 3301          | Entrepreneurship & Design Thinking | 3            | XXXX XXXX          | Free Elective              | 3            |
| BSCS 4390          | Advanced Applications Programming  | 3            | BSCS 4392          | Capstone Project II        | 3            |
| BSCS 4315          | Parallel & Distributed Computing   | 3            | BSCS 4393          | Internship                 | 3            |
| BSCS 4391          | Capstone Project I                 | 3            | BSCS 4388          | Computer Vision            | 3            |
| BSCS 4386          | Natural Language Processing        | 3            |                    |                            |              |
| Total Credit Hours |                                    | 17           | Total Credit Hours |                            |              |