

B.A. in Computer Science (Minor Required)  
 Four Year Curriculum Guide (Odd Years)  
 Department of Mathematics and Computer Science

| Year 1 Fall Semester |   |           | Year 1 Spring Semester |                                       |           |
|----------------------|---|-----------|------------------------|---------------------------------------|-----------|
| Course #             | Title                                       | Cr.       | Course #               | Title                                 | Cr.       |
| CS 101               | Logic and Computing                         | 3         | CS 121                 | Computer Programming I (spring only)  | 3         |
| MATH 223             | Discrete Mathematics I (fall only) (Core 1) | 3         | MATH 224               | Discrete Mathematics II (spring only) | 3         |
| ENG 101              | Composition I (Core 2)                      | 3         | MATH 250               | Mathematical Proof (spring only)      | 1         |
| CORE                 | Institutional Requirement (Core 3)          | 3         | ENG 102                | Composition II (Core 5)               | 3         |
| CORE                 | Institutional Requirement (Core 4)          | 3         | CORE                   | Institutional Requirement (Core 6)    | 3         |
|                      |   |           | CORE                   | Institutional Requirement (Core 7)    | 3         |
|                      | <b>TOTAL</b>                                | <b>15</b> |                        | <b>TOTAL</b>                          | <b>16</b> |

| Year 2 Fall Semester |                                     |           | Year 2 Spring Semester |                                     |           |
|----------------------|-------------------------------------|-----------|------------------------|-------------------------------------|-----------|
| Course #             | Title                               | Cr.       | Course #               | Title                               | Cr.       |
| CS 122               | Computer Programming II (fall only) | 3         | CS 230                 | Data Structures (spring only)       | 3         |
| CS                   | CS Elective                         | 3         | CS 301                 | Computer Architecture (spring odd)  | 3         |
| MINOR                | Minor Requirement (1)               | 3         | MINOR                  | Minor Requirement (2)               | 3         |
| CORE                 | Institutional Requirement (Core 8)  | 3         | GENERAL                | General Elective (1)                | 3         |
| CORE                 | Institutional Requirement (Core 9)  | 3         | CORE                   | Institutional Requirement (Core 10) | 3         |
|                      | <b>TOTAL</b>                        | <b>15</b> |                        | <b>TOTAL</b>                        | <b>15</b> |

| Year 3 Fall Semester |  |           | Year 3 Spring Semester |                                     |           |
|----------------------|--|-----------|------------------------|-------------------------------------|-----------|
| Course #             | Title                                      | Cr.       | Course #               | Title                               | Cr.       |
| CS 302               | Theory of Computation (fall odd)           | 3         | CS 303                 | Computer Algorithms (spring even)   | 3         |
| CS 421               | Principles of Operating Systems (fall odd) | 3         | CS 499                 | Software Development (spring even)  | 3         |
| MIS 372              | Systems Analysis and Design (fall odd)     | 3         | MATH 307               | Linear Algebra (spring only)        | 3         |
| CORE                 | Institutional Requirement (Core 11)        | 3         | MINOR                  | Minor Requirement (3)               | 3         |
| CORE                 | Institutional Requirement (Core 12)        | 3         | CORE                   | Institutional Requirement (Core 13) | 3         |
|                      | <b>TOTAL</b>                               | <b>15</b> |                        | <b>TOTAL</b>                        | <b>15</b> |

| Year 4 Fall Semester |                                     |           | Year 4 Spring Semester |                                     |           |
|----------------------|-------------------------------------|-----------|------------------------|-------------------------------------|-----------|
| Course #             | Title                               | Cr.       | Course #               | Title                               | Cr.       |
| CS 321               | Advanced Programming (fall even)    | 3         | GENERAL                | General Elective (3)                | 2         |
| MIS 470              | Database Management (fall only)     | 3         | GENERAL                | General Elective (4)                | 3         |
| MINOR                | Minor Requirement (4)               | 3         | CORE                   | Institutional Requirement (Core 15) | 3         |
| GENERAL              | General Elective (2)                | 3         | MINOR                  | Minor Requirement (5)               | 3         |
| CORE                 | Institutional Requirement (Core 14) | 3         | MINOR                  | Minor Requirement (6)               | 3         |
|                      | <b>TOTAL</b>                        | <b>15</b> |                        | <b>TOTAL</b>                        | <b>14</b> |

120 hours

B.A. in Computer Science (Minor Required)  
 Four Year Curriculum Guide (Even Years)  
 Department of Mathematics and Computer Science

| Year 1 Fall Semester |   |           | Year 1 Spring Semester |                                       |           |
|----------------------|---|-----------|------------------------|---------------------------------------|-----------|
| Course #             | Title                                       | Cr.       | Course #               | Title                                 | Cr.       |
| CS 101               | Logic and Computing (fall only)             | 3         | CS 121                 | Computer Programming I (spring only)  | 3         |
| MATH 223             | Discrete Mathematics I (fall only) (Core 1) | 3         | MATH 224               | Discrete Mathematics II (spring only) | 3         |
| ENG 101              | Composition I (Core 2)                      | 3         | MATH 250               | Mathematical Proof (spring only)      | 1         |
| CORE                 | Institutional Requirement (Core 3)          | 3         | ENG 102                | Composition II (Core 5)               | 3         |
| CORE                 | Institutional Requirement (Core 4)          | 3         | CORE                   | Institutional Requirement (Core 6)    | 3         |
|                      |   |           | CORE                   | Institutional Requirement (Core 7)    | 3         |
|                      |   |           |                        |                                       |           |
|                      | <b>TOTAL</b>                                | <b>15</b> |                        | <b>TOTAL</b>                          | <b>16</b> |

| Year 2 Fall Semester |                                     |           | Year 2 Spring Semester |                                     |           |
|----------------------|-------------------------------------|-----------|------------------------|-------------------------------------|-----------|
| Course #             | Title                               | Cr.       | Course #               | Title                               | Cr.       |
| CS 122               | Computer Programming II (fall only) | 3         | CS 230                 | Data Structures (spring only)       | 3         |
| CS                   | CS Elective                         | 3         | MINOR                  | Minor Requirement (2)               | 3         |
| MINOR                | Minor Requirement (1)               | 3         | MINOR                  | Minor Requirement (3)               | 3         |
| CORE                 | Institutional Requirement (Core 8)  | 3         | GENERAL                | General Elective (1)                | 3         |
| CORE                 | Institutional Requirement (Core 9)  | 3         | CORE                   | Institutional Requirement (Core 10) | 3         |
|                      |                                     |           |                        |                                     |           |
|                      | <b>TOTAL</b>                        | <b>15</b> |                        | <b>TOTAL</b>                        | <b>15</b> |

| Year 3 Fall Semester |                                     |           | Year 3 Spring Semester |                                     |           |
|----------------------|-------------------------------------|-----------|------------------------|-------------------------------------|-----------|
| Course #             | Title                               | Cr.       | Course #               | Title                               | Cr.       |
| CS 321               | Advanced Programming (fall even)    | 3         | CS 301                 | Computer Architecture (spring odd)  | 3         |
| MIS 470              | Database Management (fall only)     | 3         | MATH 307               | Linear Algebra (spring only)        | 3         |
| MINOR                | Minor Requirement (4)               | 3         | MINOR                  | Minor Requirement (5)               | 3         |
| CORE                 | Institutional Requirement (Core 11) | 3         | CORE                   | Institutional Requirement (Core 13) | 3         |
| CORE                 | Institutional Requirement (Core 12) | 3         | GENERAL                | General Elective (2)                | 3         |
|                      |                                     |           |                        |                                     |           |
|                      | <b>TOTAL</b>                        | <b>15</b> |                        | <b>TOTAL</b>                        | <b>15</b> |

| Year 4 Fall Semester |  |           | Year 4 Spring Semester |                                     |           |
|----------------------|--|-----------|------------------------|-------------------------------------|-----------|
| Course #             | Title                                      | Cr.       | Course #               | Title                               | Cr.       |
| CS 302               | Theory of Computation (fall odd)           | 3         | CS 499                 | Software Development (spring even)  | 3         |
| CS 421               | Principles of Operating Systems (fall odd) | 3         | CS 303                 | Computer Algorithms (spring even)   | 3         |
| MIS 372              | Systems Analysis and Design (fall odd)     | 3         | CORE                   | Institutional Requirement (Core 15) | 3         |
| GENERAL              | General Elective (3)                       | 3         | MINOR                  | Minor Requirement (6)               | 3         |
| CORE                 | Institutional Requirement (Core 14)        | 3         | GENERAL                | General Elective (4)                | 2         |
|                      |  |           |                        |                                     |           |
|                      | <b>TOTAL</b>                               | <b>15</b> |                        | <b>TOTAL</b>                        | <b>14</b> |

**120 hours**