

B.S. in Computer Science (Comprehensive Major)
 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 |
| | TOTAL | 15 | | TOTAL | 16 |

| 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 (1) | 3 | CS 301 | Computer Architecture (spring odd) | 3 |
| CS | CS Elective (2) | 3 | SCIENCE | Science Elective (1) | 3 |
| CORE | Institutional Requirement (Core 8) | 3 | GENERAL | General Elective (1) | 3 |
| CORE | Institutional Requirement (Core 9) | 3 | CORE | Institutional Requirement (Core 10) | 3 |
| | TOTAL | 15 | | TOTAL | 15 |

| 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 |
| SDD 241 or MIS 372 | Introduction to Software Engineering (fa only) or Systems Analysis and Design (fa only) | 3 | MATH 307 | Linear Algebra (spring only) | 3 |
| CORE | Institutional Requirement (Core 11) | 3 | CORE | Institutional Requirement (Core 13) | 3 |
| CORE | Institutional Requirement (Core 12) | 3 | GENERAL | General Elective (2) | 3 |
| | TOTAL | 15 | | TOTAL | 15 |

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

120 hours

B.S. in Computer Science (Comprehensive Major)
 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 | 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 |
| | TOTAL | 15 | | TOTAL | 16 |

| 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 (1) | 3 | CS | CS Elective (2) | 3 |
| GENERAL | General Elective (1) | 3 | SCIENCE | Science Elective (1) | 3 |
| CORE | Institutional Requirement (Core 8) | 3 | GENERAL | General Elective (2) | 3 |
| CORE | Institutional Requirement (Core 9) | 3 | CORE | Institutional Requirement (Core 10) | 3 |
| | TOTAL | 15 | | TOTAL | 15 |

| 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 |
| CS | CS Elective (3) | 3 | CORE | Institutional Requirement (Core 13) | 3 |
| CORE | Institutional Requirement (Core 11) | 3 | CORE | Institutional Requirement (Core 14) | 3 |
| CORE | Institutional Requirement (Core 12) | 3 | GENERAL | General Elective (3) | 3 |
| | TOTAL | 15 | | TOTAL | 15 |

| 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 |
| SDD 241 or MIS 372 | Introduction to Software Engineering (fall only) or Systems Analysis and Design (fall only) | 3 | SCIENCE | Science Elective (2) | 3 |
| GENERAL | General Elective (4) | 3 | GENERAL | General Elective (5) | 2 |
| CORE | Institutional Requirement (Core 15) | 3 | GENERAL | General Elective (6) | 3 |
| | TOTAL | 15 | | TOTAL | 14 |

120 hours