

**Bachelor of Science in SOFTWARE ENGINEERING**

**2001 - 2002 CATALOG**

**Fall Semester**

**Spring Semester**

**FRESHMAN YEAR**

|                      |      |                            | Credits      |       |
|----------------------|------|----------------------------|--------------|-------|
| C.S.                 | 2106 | Intro to Computer Sci. I   | 3            | _____ |
| Math                 | 1520 | Calculus I OR              |              |       |
| Math                 | 1516 | Calculus I w/ Alg. Enhanc. | 3/4          | _____ |
| Engl.                | 1046 | English Comp.              | 3            | _____ |
| Chem                 | 1056 | General Chemistry I *      | 3            | _____ |
| Chem                 | 1136 | General Chemistry I Lab *  | 1            | _____ |
| **                   |      | Humanities Elective        |              |       |
|                      |      |                            | 3            | _____ |
| <b>Total Credits</b> |      |                            | <b>16/17</b> |       |

|                      |      |                            | Credits   |       |
|----------------------|------|----------------------------|-----------|-------|
| C.S.                 | 2116 | Intro to Computer Sci. II  | 3         | _____ |
| C.S.                 | 2156 | Assembly Language          | 3         | _____ |
| HSS                  | 1216 | Principles of Speaking     | 2         | _____ |
| Min                  | 1010 | Intro to Eng. Calculations | 3         | _____ |
| Math                 | 1530 | Calculus II                | 3         | _____ |
| S.E.                 | 1010 | Intro. to Software Proc.   | 1         | _____ |
| **                   |      | Humanities Elective        |           |       |
|                      |      |                            | 3         | _____ |
| <b>Total Credits</b> |      |                            | <b>18</b> |       |

**SOPHOMORE YEAR**

|                      |      |                            |           |       |
|----------------------|------|----------------------------|-----------|-------|
| C.S.                 | 3166 | Discrete Structures        | 3         | _____ |
| C.S.                 | 3546 | UNIX, C, & C++             | 3         | _____ |
| Math                 | 2510 | Calculus III               | 4         | _____ |
| Math                 | 3316 | Intro. Statistical Methods | 3         | _____ |
| Phys                 | 1046 | General Physics            | 3         | _____ |
| <b>Total Credits</b> |      |                            | <b>16</b> |       |

|                      |      |                              |           |       |
|----------------------|------|------------------------------|-----------|-------|
| C.S.                 | 3316 | Data Struct & Algo. I        | 3         | _____ |
| Phys                 | 2076 | General Phys - H, S, & O     | 3         | _____ |
| Phys                 | 2096 | General Phys - H, S, & O lab | 1         | _____ |
| Bus                  | 3666 | Operations & Prod Mgmt       | 3         | _____ |
| **                   |      | Social Science Elective      |           |       |
|                      |      |                              | 3         | _____ |
| <b>Total Credits</b> |      |                              | <b>13</b> |       |

**JUNIOR YEAR**

|                      |      |                                    |           |       |
|----------------------|------|------------------------------------|-----------|-------|
| C.S.                 | 2556 | Programming Language               | 1         | _____ |
| C.S.                 | 3256 | Software Engineering I             | 3         | _____ |
| C.S.                 | 3326 | Information Structures             | 3         | _____ |
| Econ                 | 2606 | Principles of Economics            | 3         | _____ |
| Phys                 | 2086 | Gen. Phys - Elect, Mag, & Wave     | 3         | _____ |
| Phys                 | 2106 | Gen. Phys - Elect, Mag, & Wave lab | 1         | _____ |
| ***                  |      | Specialization Elective            |           |       |
|                      |      |                                    | 3         | _____ |
| <b>Total Credits</b> |      |                                    | <b>17</b> |       |

|                      |      |                                       |           |       |
|----------------------|------|---------------------------------------|-----------|-------|
| C.S.                 | 2556 | Programming Language                  | 1         | _____ |
| C.S.                 | 3266 | Software Engineering II               | 3         | _____ |
| C.S.                 | 3656 | Database Management                   | 3         | _____ |
| Engr                 | 3210 | Sci. & Tech. Writing                  | 3         | _____ |
| S.E.                 | 3300 | Human-Comp. Interaction               | 3         | _____ |
| S.E.                 | 3270 | Princ. Software Architecture & Design | 3         | _____ |
| <b>Total Credits</b> |      |                                       | <b>16</b> |       |

**SENIOR YEAR**

|                      |      |                                   |           |       |
|----------------------|------|-----------------------------------|-----------|-------|
| M.EC                 | 3630 | Engineering Economy               | 3         | _____ |
| S.E.                 | 3280 | Software Require. & Specification | 3         | _____ |
| S.E.                 | 4010 | Project I                         | 4         | _____ |
| ***                  |      | Specialization Elective           |           |       |
|                      |      |                                   | 3         | _____ |
| ***                  |      | Specialization Elective           |           |       |
|                      |      |                                   | 3         | _____ |
| <b>Total Credits</b> |      |                                   | <b>16</b> |       |

|                      |      |                         |           |       |
|----------------------|------|-------------------------|-----------|-------|
| C.S.                 | 4016 | Programming Lang.       | 3         | _____ |
| C.S.                 | 4406 | Computer Architecture   | 3         | _____ |
| Engr                 | 4830 | Eng. Science Seminar    | 1         | _____ |
| S.E.                 | 4020 | Project II              | 3         | _____ |
| ***                  |      | Specialization Elective |           |       |
|                      |      |                         | 3         | _____ |
| ***                  |      | Specialization Elective |           |       |
|                      |      |                         | 3         | _____ |
| <b>Total Credits</b> |      |                         | <b>16</b> |       |

*Minimum credits for B.S. degree in Software Engineering = 128*

\* Biol 1026 (Biology and Man with Lab) or Geoe 1010 (Physical Geology) may be substituted for Chem 1056/1136.

\*\* Electives must be chosen to met GER (3 credits in Social Sciences & 6 credits in Humanities).

\*\*\* 15 credits are to be taken in an area in which the student wishes to specialize. These may include (but are not limited to) Business, Engineering (any field), Physics, Mathematics, etc. These are to be selected in consultation with the department involved as well as the Computer Science Department.