### Computer Science Curriculum Overview (3 Year Sample Path)

#### Year 1
- **Fall Term**: Programming experience for CIS major courses may be covered in high school or in the first year (CIS 122). In year 1 students also complete the majority of their General Education Courses. In this example CIS major courses begin year 2.
- **Winter Term**: General Education Course
- **Spring Term**: General Education Course

#### Year 2
- **Fall Term**: CIS 210 Computer Science I
- **Winter Term**: CIS 211 Computer Science II
- **Spring Term**: CIS 212 Computer Science III
- **General Education/Elective Course**: Math 112 Elementary Functions
- **Elective Course**: Additional Math (see list reverse side)

#### Year 3
- **Fall Term**: CIS 314 Comp. Organization
- **Winter Term**: CIS 330 C/C++ & Unix
- **Spring Term**: CIS 415 Operating Systems
- **General Education/Elective Course**: Additional Math (see list reverse side)
- **Elective Course**: MATH Elective

#### Year 4
- **Fall Term**: CIS 425 Principle of Programming
- **Winter Term**: CIS 422 Software Methodology
- **Spring Term**: CIS Elective
- **CIS Elective**: WR 320/321 Technical Writing
- **MATH Elective**: (CIS Elective)

#### Summer Internship or Research Opportunity

Three-term Laboratory Science Sequence in Biology, Chemistry, Physics, Geological Sciences, Geography or Psychology (see list on reverse side), or Computer Related minor.
Math Core Requirements

Students must take Discrete Mathematics 231 and 232, and two terms of Calculus (I and II). In addition, students must take two of the following:

- Choose 1: [MATH 253 Calculus III OR MATH 263 Calculus with Theory III]
- MATH 341 Linear Algebra I
- Choose 1: [MATH 343 Statistical Models/Methods OR MATH 425 Statistical Methods I]

Laboratory Science Requirements

Students must complete one three-term sequence chosen from the following:

Science Course 1  Science Course 2  Science Course 3

- General Physics: PHYS 201, 202, 203
- Foundations of Physics: PHYS 251, 252, 253
- General Chemistry: CH 221, 222, 223
- Honors General Chemistry: CH 224H, 225H, 226H
- Geological Sciences: ERTH 201, 202, 203 (GEOL 201, 202, 203)
- Geography: GEOG 141, choose 2: [GEOG 321, GEOG 322, GEOG 323]
- Biology: choose 1:[CH 111, CH 113, CH114, CH 221, CH 224H], BI 211, then choose 1:[BI 212, BI 213]
- Psychology: PSY 201, then choose 2: [PSY 301, 304, 305, 348]