Computer Science Curriculum Overview (3 Year Sample Path)

omp	Fall Term	Winter Term	Spring 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.	General Education Course	CIS 122 Intro to Programming
Year 1		General Education Course	Math 112 Elementary Functions
		General Education Course	General Education Course
		WR 121 College Composition I	WR 122 College Composition II
	CIS 210 Computer Science I	CIS 211 Computer Science II	CIS 212 Computer Science III
Year 2	MATH 231 Discrete Math I	MATH 232 Discrete Math II	Calculus [Math 246, 251, or 261]
Ye	Three-term Laboratory Science Sequence in Biology, Chemistry, Physics, Geological Sciences, Geography or Psychology (see list on reverse side), or Computer Related minor.		
	General Education/ Elective Course	General Education/ Elective Course	Elective Course
	CIS 314 Comp. Organization	CIS 330 C/C ++ & Unix	CIS 415 Operating Systems
Year 3	CIS 313 Data Structures	CIS 315 Algorithms	CIS Elective
Yea	Calculus [MATH 247, 252, or 262]	Additional Math (see list reverse side)	Additional Math (see list reverse side)
	Minor/Elective Course	Minor/Elective Course	Minor/Elective Course
	CIS 425 Principle of Programming	CIS 422 Software Methodology	CIS Elective
Year 4	CIS Elective	CIS Elective	CIS Elective
	MATH Elective	WR 320/321 Technical Writing	(CIS Elective)

## 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:

Additional Math

- Choose 1: [MATH 253 Calculus III OR MATH 263 Calculus with Theory III]
- MATH 341 Linear Algebra I

Additional Math

 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]