Computer Science Curriculum Overview (4 Year Sample Path)

	Fall Term	Winter Term	Spring Term	
Year 1	CIS 122 Intro to Programming	CIS 210 Computer Science I	CIS 211 Computer Science II	
	MATH 112 Elementary Functions	MATH 231 Discrete Math I	MATH 232 Discrete Math II	
	General Education Course	WR 121 College Composition I	WR 122 College Composition II	
	General Education Course	General Education Course	General Education Course	
Year 2	CIS 212 Computer Science III	CIS 313 Data Structures	CIS 315 Algorithms	Summer Internship or Research Opportunity
	MATH 251 Calculus I	CIS 314 Computer Organization	CIS 330 C/C++ and Unix	
	General Education Course	MATH 252 Calculus II	Additonal Math See Reverse Side List	
	General Education Course	General Education Course	General Education Course	
Year 3	CIS 415 Operating Systems	CIS 422 Software Methodology	CIS 425 Principle of Programming	Summer Internship or Research Opportunity
	CIS Upper Division Elective	CIS Upper Division Elective	CIS Upper Division Elective	
	Three-term Laboratory Science Sequence in Biology, Chemistry, Physics, Geological Sciences, Geography or Psychology (see list on reverse side) or Computer Science related Minor.			
	General Education or Elective Course	General Education or Elective Course	Elective Course	
Year 4	CIS Upper Division Elective	CIS Upper Division Elective	(CIS Upper Division Elective)	
	Additional Math See Reverse Side List	Math Upper Division Elective	WR 320/321 Technical Writing	
	Minor/Elective Course	Minor/Elective Course	Minor/Elective Course	

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]*