MACS Curriculum Overview (3 Year Sample Path)

1	VIACS Culticuluiii	Overview (5 Tear	Sumple Fully	1	
Year 1	Fall Term	Winter Term	Spring Term		
	Preparation and/or programming experience for CIS major courses may be covered in high school or in the first year. In year 1 students also complete the majority of their General Education Courses. In this example MACS major courses begin year 2.	General Education Course	CIS 122 Intro to Programming		
		General Education Course	Math 112 Elementary Functions		
		General Education Course	General Education Course		
		WR 121 College Composition I	WR 122 College Composition II		
		- Constitution of the Cons	CVC 212		
Year 2	CIS 210 Computer Science I	CIS 211 Computer Science II	CIS 212 Computer Science III	Summer Internship or Research Opportunity	
	MATH 231 Discrete Math I	MATH 232 Discrete Math II	(Math Elective)		
	MATH 251 Calculus I	MATH 252 Calculus II	MATH 253 Calculus III		
	General Education/ Elective Course	General Education/ Elective Course	Elective Course		
	CIG 215 CIG 215				
Year 3	CIS 313 Data Structures	CIS 315 Algorithms	CIS 425 Principles of Programming	nternship Opportunity	
	CIS 314 Comp. Organization	Math 341 Elem. Linear Algebra I	Math 342 Elem. Linear Algebra II		
	Three term Laboratory Science Sequence in Biology, Chemistry, Physics, Geological Sciences, Geography or Psychology (see list on reverse side) or Computer Science related Minor.			Summer Internshi or Research Opportu	
	Minor/Elective Course	Minor/Elective Course	Minor/Elective Course	or	
44	Math 316, 347, or 391	Math Elective	CIS Elective		
Year 4	Math 351 or 461	Math 352 or 462	WR 320/321 Technical Writing		
	CIS 322, 330 or 422	CIS Elective	(CIS/MATH Elective)		

## Math Core Requirements

MATH Elective

MACS majors must take an upper-division MATH elective, excluding 425, 426, or 427.

## 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: 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]