

MACS Curriculum Overview (3 Year Sample Path)

Year 1	Fall Term	Winter Term	Spring Term	
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	
Year 3	CIS 313 Data Structures	CIS 315 Algorithms	CIS 425 Principles of Programming	Summer Internship or Research 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.			
	Minor/Elective Course	Minor/Elective Course	Minor/Elective Course	
Year 4	Math 316, 347, or 391	Math Elective	CIS Elective	
	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]*