

Preparing for CIS / MACS major

The CIS and MACS majors begin with CIS 210 Computer Science I and Math 231 Discrete Math I, and take approximately three years for completion of all major coursework. Any CIS or Math preparations should be calculated into this three-year timeframe. It can take one to three terms to prepare to begin the major.

1. Students must have programming experience and the equivalent of Math 112 or higher to begin the major.
2. Programming experience includes: CIS 122 (recommended), CIS 111, or equivalent. CIS 110 or equivalent is not sufficient.
3. Math 112 or higher equivalence is demonstrated by college-level coursework, AP Calculus scores, or UO Math Placement scores.
4. Students must earn no grade lower than B- in CIS 210, 211, 212 and Math 231, 232 for automatic advancement to upper-division CIS courses.

Math Readiness Level	Blue = CIS / MACS Prep Courses	Yellow = CIS / MACS Major Courses			Green = CIT minor courses
	Recommended Courses for First Academic Year				
	Fall	Winter	Spring	Fall	Notes
Math 95	CIS 111 Math 95	CIS 115 Math 111	CIS 122 Math 112	CIS 210 Math 231	One year of math and/or programming preparation is needed. For students with no programming experience, CIS 111 or 122 (recommended) is required before beginning the major. Additional programming classes are strongly recommended.
			CIT 281	CIT 381	
Math 111	CIS 111 Math 111	CIS 115 Math 112	CIS 122 Math 251	CIS 210 Math 231 or 252	Additional programming classes are strongly recommended.
			CIT 281	CIT 381	
Math 112	CIS 122 Math 112	CIS 210 Math 231	CIS 211 Math 232	CIS 212 Math 251	One term of math and/or programming preparation is needed. For students with no programming experience, CIS 111 or 122 (recommended) is required before beginning the major.
Math 251 (No Prog. Exp.)	CIS 122 Math 251	CIS 210 Math 231 or 252	CIS 211 Math 231 or 232	CIS 212 Math 232 or 252	
Math 251	CIS 210 Math 231	CIS 211 Math 232	CIS 212 Math 251	CIS 3XX Math 252	Students who are ready for Math 251 or higher and have prior programming experience are ready to begin the major.

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