

CIS/MACS Major Minor Degree Requirements Checklist 2017-2018

CIS Major	MACS Major	CIS Minor
15 Classes, 60 Credits ___ CIS 210 ¹ ___ CIS 211 ¹ ___ CIS 212 ¹ ___ CIS 313 ___ CIS 314 ___ CIS 315 ___ CIS 330 ___ CIS 415 ___ CIS 422 ___ CIS 425 ___ CIS Upper Div. Track Elec. ___ CIS Upper Div. Track Elec. ___ CIS Upper Div. Track Elec. ___ CIS Upper Div. Track Elec. ² ___ CIS Upper Div. Track Elec. ²	10 Classes, 40 Credits ___ CIS 210 ¹ ___ CIS 211 ¹ ___ CIS 212 ¹ ___ CIS 313 ___ CIS 314 ___ CIS 315 ___ Choose 1: ___ CIS 322, 330, 420, 422 ___ CIS 425 ___ CIS Upper Div. Elec. ⁷ ___ CIS Upper Div. Elec. ⁷	6 Classes, 24 Credits ___ CIS 210 ¹ ___ CIS 211 ¹ ___ CIS 212 ¹ ___ CIS 313 ___ CIS Upper Div. Elec. ⁸ ___ CIS Upper Div. Elec. ⁸
7 Classes, 28 Credits ___ MATH 231 ¹ ___ MATH 232 ¹ ___ MATH 251, 261, or 246 ___ MATH 252, 262, or 247 ___ MATH approved core list ³ ___ MATH approved core list ³ ___ MATH/CIS Upper Div. Elec. ⁴	11 Classes, 44 Credits ___ MATH 231 ¹ ___ MATH 232 ¹ ___ MATH 251 or 261 ___ MATH 252 or 261 ___ MATH 253 or 263 ___ Choose 1 ___ MATH 316, 347, or 391 ___ MATH 341 ___ MATH 342 ___ MATH 351 or 461 ___ MATH 352 or 462 ___ MATH Upper Div. Elec.	2 Classes, 8 Credits ___ MATH 231 ¹ ___ MATH 232 ¹
3 Classes, 12 Credits ___ Science ^{5,6} ___ Science ___ Science	3 Classes, 12 Credits ___ Science ^{5,6} ___ Science ___ Science	
1 Class, 4 Credits ___ WR 320 or 321	1 Class, 4 Credits ___ WR 320 or 321	
26 Classes, 104 Total Credits	25 Classes, 100 Total Credits	8 Classes, 32 Credits

¹B- or better grade in CIS 210, 211, 212 and MATH 231 and 232 to advance to Upper Division Courses

²Maximum 8 individual study credits for example honors thesis or seminars (399-409). Additional courses numbered 410 and above also count.

³MATH Core List: MATH 233, 253, 263, 341, 1 of 343/425

⁴MATH/CIS Upper Div. List: CIS 413, 420, 427, 473.

⁵See website – Physics, Chemistry, Biology, Geography and Geological Sciences, Psychology

⁶A minor in a computing related discipline may be substituted for CIS Science requirement, with approval of a submitted CIS Petition.

⁷At least one course must be numbered 410 or above

⁸Classes numbered 399-409 count towards minor only with prior departmental permission