2012 Mathematics major (non-teaching) with Computer Science Concentration Requirements Checklist, REV. 5/16/12

All of the following courses:	
CISC 105, Intro to Problem Solving	OREN 105 (1 hour)
CISC 110, Intro to Programming I	CISC 100 or validation
CISC 210, Data Structures & Adv. Programming	ENGL 110 or validation by ACT/SAT
MATH 190, Calculus I	ENGL 111, HIST 112 or a writing-intensive research course in the major
MATH 240, Differential Equations	MATH 122, 124, 126, 135 or higher level Math
MATH 260, Linear Algebra	course (one class required – students who validate MATH 135 by ACT/SAT or test may take a higher level math (excluding MATH 137)
MATH 290, Calculus II	to satisfy this requirement)
MATH 390, Calculus III	Arts and Humanities (4 hours required) ENGL 120, 201, 213, 214, 223, 224, 225, 227, 228,
MATH 460, Mathematics Seminar	231, 250; HNRS 101, HUMA 222, 223; MUSC 101, REGL101, 102; THEA 104, VISA 110, 204 or 208
And any other four of the following five:	Natural Sciences (4 hours required)
MATH 140, Elementary Statistics	ATEP 252, BIOL 100, 101, 251; CHEM 101, EVSC 111, GEOL 101, PHED 252, PHYS 201
MATH 170, Finite Math	Social Sciences (4 hours required)
MATH 320, Discrete Mathematics	BUSN 201, CRJU 101, GEOG 200, HIST 101, 102, 201, 202; POLS 203, 205, 207, 209;
MATH 430, Abstract Algebra	PSYC 101; SOCI 101, 105
MATH 460, Mathematics Seminar (a second time)	PHED 201 or PSYC102
And the following three Computer Science courses:	* CMNS 251
CISC 215, Database Management	CMNS 330 or HNRS 330 or the combination of RELG101and RELG 102
CISC 310, Networking Fund. and Programming	CMNS 380 or HNRS 380
CISC 330, Software Engineering	* CMNS 480, BIOL/EVSC 480, BUSN 446,
And one additional course from the following six:	ENGL 402, HIST 480, PHED 480 or PSYC 430
CISC 325, Software Assurance	* SVLN 351, 354, 356; BUSN 356; VISA 354
CISC 350, Special Topics in Languages	Arts and Lecture Series (no credit hours)
CISC 375, Web Design	Attended of required A&L events
CISC 385, Web Programming	*If you are double majoring with an Education major, CMNS 251, Service-Learning and CMNS 480 are not required.
CISC 405, Mobile Application Development	
CISC 410, Operating Systems	
COMMONS REQUIREMENTS:	

128.00 hours required for graduation

Commons: 53 semester hours

Major: 68 semester hours

Electives: 7 hours