

# 2009 Mathematics major (non-teaching) with Computer Science Concentration

Requirements Checklist, REV. 10/19/2009

All of the following courses:

\_\_\_\_\_ CISC 105, Intro to Problem Solving

\_\_\_\_\_ CISC 110, Intro to Programming I

\_\_\_\_\_ CISC 210, Data Structures

\_\_\_\_\_ MATH 190, Calculus I

\_\_\_\_\_ MATH 240, Elementary Differential Equations

\_\_\_\_\_ MATH 290, Calculus II

\_\_\_\_\_ MATH 390, Calculus III

Plus any **six** from the following list:

\_\_\_\_\_ MATH 140, Elementary Statistics

\_\_\_\_\_ MATH 150, Geometry

\_\_\_\_\_ MATH 160, Trigonometry

\_\_\_\_\_ MATH 170, Finite Math

\_\_\_\_\_ MATH 260, Linear Algebra

\_\_\_\_\_ MATH 320, Discrete Mathematics

\_\_\_\_\_ MATH 360, Numerical Analysis

\_\_\_\_\_ MATH 415, Differential Equations II

\_\_\_\_\_ MATH 430, Abstract Algebra

\_\_\_\_\_ MATH 450, Independent Study in Math

Plus the following three Computer Science courses:

\_\_\_\_\_ CISC 215, Database Management

\_\_\_\_\_ CISC 310, Data Communication & Networking

\_\_\_\_\_ CISC 370, File Processing

Plus one additional course from the following 5 courses:

\_\_\_\_\_ CISC 254, Computer Organization/Assembly Language

\_\_\_\_\_ CISC 311, Systems Analysis and Logical Design

\_\_\_\_\_ CISC 350, Special Topics in Languages

\_\_\_\_\_ CISC 400, Hardware and Software Systems

\_\_\_\_\_ CISC 410, Operating Systems

## COMMONS REQUIREMENTS:

\_\_\_\_\_ OREN 105 (1 hour)

\_\_\_\_\_ CISC 100 or validation

\_\_\_\_\_ ENGL 110 or validation by ACT/SAT

\_\_\_\_\_ ENGL 111, HIST 112 or a writing-intensive research course in the major

\_\_\_\_\_ MATH 122, 124, 126, 135 or higher level Math course (one class required – students who validate MATH 135 by ACT/SAT or test may take a higher level math (excluding MATH 137) to satisfy this requirement)

Arts and Humanities (4 hours required)

\_\_\_\_\_ ENGL 120, 201, 225, 227, 228; HNRS 101, HUMA 222, 223; MUSC 101, THEA 104, VISA 110, 204, 208

Natural Sciences (4 hours required)

\_\_\_\_\_ BIOL 100, 101; CHEM 101, EVSC 111, GEOL 101, PHED 252, PHYS 101

Social Sciences (4 hours required)

\_\_\_\_\_ BUSN 201, GEOG 200, HIST 101, 102, 201, 202; POLS 203, 205, 207, 209; PSYC 101, SOCI 101, 105

\_\_\_\_\_ PHED 201

\_\_\_\_\_ CMNS 251

\_\_\_\_\_ CMNS 330 or HNRS 330

\_\_\_\_\_ CMNS 380 or HNRS 380

\_\_\_\_\_ CMNS 480, BIOL/EVSC 480, BUSN 446, ENGL 402, PHED 480 or PSYC 430

\_\_\_\_\_ SVLN 351, 354, 356; VISA 354

Arts & Lectures Series (no credit hours)