Salisbury UNIVERSITY

2008-2009 Academic Year

MATHEMATICS
COMPUTER SCIENCE CONCENTRATION
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

NAME _____

GENERAL EDUCATION FALL 2008 – Approved S07

GROUP I: English and Literature - 2 COURSES

A. ENGLISH 103 (Grade of "C" or better) **OR** HONORS 111 (if in Honors Program) 4 _____
B. LITERATURE (in either English or Modern Languages) 4 _____

GROUP II: History - 2 COURSES

A. HISTORY 101, 102 or 103 4 _____
B. HISTORY 101, 102, 103 or a History Course above 103 4 _____

GROUP III: Humanities and Social Sciences – 3 COURSES FROM 3 DIFFERENT AREAS

A. **Select one course from one of the following six areas:** Art, Communications, Dance OR Theater Arts, Modern Languages, Music, Philosophy. (HONR 211 if in Honors Program)
_____ 3/4 _____

B. **Select one course from one of the following six areas:** Anthropology, Conflict Analysis and Dispute Resolution OR Sociology, Economics, **Human** Geography, Political Science, Psychology. (HONR 112 if in Honors Program)
_____ 3/4 _____

C. Select **one** course from either Group III A or IIIB **(course may not be from the same area selected for IIIA or IIIB)**
_____ 3/4 _____

GROUP IV: Natural Science, Math and Computer Science – 4 COURSES

A. **Select courses with laboratories from at least two of the following four areas (totaling at least six credits hours):** Biology, Chemistry, Geology **or Physical** Geography, Physics
_____ 4 _____
_____ 4 _____

B. **Select one additional course (need not include a lab) from Group IVA or Computer Science or Mathematics (totaling at least 3 credit hours):** Biology, Chemistry, Environmental Health Science, Geology **or Physical** Geography, Physics, Computer Science, Mathematics, HONR 212 (If in Honors Program)
_____ 3/4 _____

C. Select **one** math course for a total of three credit hours
_____ 3 _____

GROUP V: Health Fitness - 1 COURSE

Complete PHEC 106 Personalized Hlth/Fitness 3 _____

CORE REQUIREMENTS

*MATH 201 CALCULUS I	4 ____
*MATH 202 CALCULUS II	4 ____
*MATH 210 DISCRETE MATH	4 ____
*MATH 213 STATISTICAL THINKING ✧	3 ____
*MATH 214 STATISTICS LABORATORY	1 ____
*MATH 306 LINEAR ALGEBRA	4 ____
*MATH 310 CALCULUS III	4 ____
*COSC 120 COMPUTER PROGRAMMING	4 ____

COMPUTER SCIENCE CONCENTRATION REQUIREMENTS

*COSC 220 DATA STR. & ALG. ANALYSIS	4 ____
*COSC 250 MICROCOMPUTER ORGANIZATION	4 ____
*COSC 320 ADV. DATA STR. & ALG. ANALYSIS	4 ____
*COSC/MATH 362 MATH FOUND. OF COMP. SCI.	3 ____

Plus one of the following sequences of courses:

*COSC 425 SOFTWARE ENGINEERING I ***and***	3 ____
*COSC 426 SOFTWARE ENGINEERING II	3 ____
Or	
*COSC 350 SYSTEMS SOFTWARE ***and***	4 ____
*COSC 450 OPERATING SYSTEMS	3 ____

Plus two upper-level COSC or MATH courses †

*COSC/MATH 3 ___ Or 4 ___	3-4 ____
*COSC/MATH 3 ___ Or 4 ___	3-4 ____

Plus three upper-level MATH courses †

*MATH 3 ___ or 4 ___ MATH ELECTIVE	3-4 ____
*MATH 4 ___ MATH ELECTIVE	3 ____
*MATH 4 ___ MATH ELECTIVE	3 ____

OTHER ELECTIVES

(Chosen to bring the total to 120 credits)

_____ _ ___
_____ _ ___
_____ _ ___
_____ _ ___
_____ _ ___
_____ _ ___

* *Must be completed with a grade of "C" or better.*
✧ *Substitution requires departmental approval.*
† *At most, one of either COSC or MATH 380/390/495 may be used to satisfy requirements in this major.*

All students must complete120 credits, with 30 credits at the 300/400 level with a grade of "C" or better.

NOTE: TRANSFER STUDENTS MAJORING IN MATHEMATICS ARE REQUIRED TO COMPLETE AT LEAST 12 CREDIT HOURS OF APPROVED UPPER-DIVISION MATH.COSC COURSES AT SALISBURY UNIVERSITY.

KMS/ar

4/2008