

COMPUTER SCIENCE

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

All students must complete 120 credit hours, with 30 credits at the 300/400 level with a grade of "C" or better.

MATHEMATICS CORE (A Mathematics Minor)

- *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 _____

LOWER-DIVISION COMPUTER SCIENCE CORE

- *COSC 120 COMPUTER SCIENCE I 4 _____
*COSC 220 COMPUTER SCIENCE II 4 _____
*COSC 250 MICROCOMPUTER ORGANIZATION 4 _____

UPPER-DIVISION COMPUTER SCIENCE CORE

- *COSC 320 ADV. DATA STR. & ALG. ANALYSIS 4 _____
*COSC 350 SYSTEMS SOFTWARE 4 _____
*COSC 362 MATH. FOUND. OF COMP. SCIENCE 3 _____
*COSC 425 SOFTWARE ENGINEERING I 3 _____
*COSC 426 SOFTWARE ENGINEERING II 3 _____
*COSC 450 OPERATING SYSTEMS 3 _____

Plus four of the following:

- *COSC 370 COMPUTER NETWORKS
COSC 380/COSC 390/COSC 495 (3-4 c.h.) †
*COSC 422 ORGANIZATION OF PROG. LANGUAGES
*COSC 456 COMPUTER ARCHITECTURE
*COSC 482 COMPUTER GRAPHICS
*COSC 490 SPECIAL TOPICS
*MATH 471 † NUMERICAL METHODS
*INFO 386 † DATABASE MANAGEMENT SYSTEMS

OTHER ELECTIVES

(Chosen to bring the total to 120 credits)

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.