

MATHEMATICAL SCIENCES

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** 4 _____
 HONORS 111 (if in Honors Program)
- B. LITERATURE (in either English or 4 _____
 Modern Languages)

GROUP II - 15 CREDITS/5 COURSES

- A. HISTORY 101, 102 or 103 4 _____
 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 IIIA 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, HONE 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 Health/Fitness 3 _____

CORE REQUIREMENTS

- *MATH 201 CALCULUS I 4 _____
 *MATH 202 CALCULUS II 4 _____
 *MATH 210 DISCRETE MATH 4 _____
 *MATH 213 STATISTICAL THINKING \diamond 3 _____
 *MATH 214 STATISTICS LABORATORY 1 _____
 *MATH 306 LINEAR ALGEBRA 4 _____
 *MATH 310 CALCULUS III 4 _____
 *COSC 120 COMPUTER PROGRAMMING **OR** 4 _____
 COSC 117 PROGRAMMING FUNDAMENTALS 3 _____

ADDITIONAL REQUIREMENTS

- *MATH 311 DIFFERENTIAL EQUATIONS I 4 _____
 *MATH 451 ANALYSIS I 3 _____
 *MATH 3/4 _____ MATH ELECTIVE 3 _____

Plus

Completion of the TRADITIONAL or APPLIED Option

TRADITIONAL OPTION

- *MATH 441 ABSTRACT ALGEBRA I 3 _____
 and a second course in: Abstract Algebra (442), or Real Analysis (452), or Mathematical Statistics (414)
- *MATH 4 _____ 3 _____

and 2 400-level MATH courses

- *MATH 4 _____ 3 _____
 *MATH 4 _____ 3 _____

APPLIED OPTION

- *MATH 413 Mathematical Statistics I 3 _____
 *MATH 4 _____ (MATH 414 or MATH 452) 3 _____

PLUS Two of the following:

- *MATH 460 OPERATIONS RESEARCH
 *MATH 465 MATHEMATICAL MODELING
 *MATH 471 NUMERICAL METHODS
 *MATH 475 DYNAMICS & CHAOS
 *MATH 493 ADV. TOPICS IN STATISTICS
- _____ -- _____
 _____ -- _____

OTHER ELECTIVES

(Chosen to bring the total to 120 credit hours)

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

* Must be completed with a grade of "C" or better.
 \diamond 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.