

**MATHEMATICS
STATISTICS 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"/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, Communication Theatre Arts **OR** Dance, Modern Languages, Music, Philosophy (HONR 211 if in Honors Program) 3/4 _____
- B. **Select one course from one of the following six areas:** Anthropology, Economics, **Human** Geography, Political Science, Psychology, Sociology **OR** Conflict Analysis and Dispute Resolution 3/4 _____
- C. Select **one** course from either Group III A or Group III B (**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:** 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 Health/Fitness 3 _____
- * *Must be completed with a grade of "C" or better*
 † *Substitution requires departmental approval*
 † *At most, one of the 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.

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 117 PROGRAMMING FUNDAMENTALS **OR** 4 _____
- *COSC 120 COMPUTER SCIENCE I 4 _____

STATISTICS CONCENTRATION REQUIREMENTS

- †MATH 380/390/495 INTERN/RESCH/CNSLT 3 - 4 _____
- *MATH 313 SURVEY DESIGN & SAMPLING 3 _____
- *MATH 314 APPLIED STATISTICS 3 _____
- *MATH 413 MATHEMATICAL STATISTICS I 3 _____
- *MATH 414 MATHEMATICAL STATISTICS II 3 _____
- *MATH 493 ADVANCED TOPICS IN STATISTICS 3 _____
- *MATH 3 _____ Or 4 _____ **Elective** 3 - 4 _____
- *MATH 4 _____ **Elective** 3 _____
- (MATH 380/390/495 may **not** be used to satisfy these electives)

Suggested Electives:

- MATH 451 ANALYSIS I
- MATH 460 OPERATIONS RESEARCH **or**
- MATH 465 MATHEMATICAL MODELS & APPLICATIONS
- MATH 471 NUMERICAL METHODS

OTHER ELECTIVES

(Chosen to bring the total to 120 credit hours)

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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