

MATHEMATICAL SCIENCES

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

NAME _____

GENERAL REQUIREMENTS

GROUP I - 15 CREDITS/5 COURSES

- A. * ENGLISH 101 3 _____
- * ENGLISH 102 3 _____
- LITERATURE _____ 3 _____

- B. ART, COMMUNICATION/THEATRE ARTS, DANCE, MODERN LANGUAGES, MUSIC, PHILOSOPHY (6 CREDITS IN TWO DEPTS)

_____ 3 _____
 _____ 3 _____

GROUP II - 15 CREDITS/5 COURSES

- A. HISTORY 101 3 _____
- HISTORY 102 3 _____

- B. ANTHROPOLOGY, ECONOMICS, ENVR, HISTORY, HUMAN GEOGRAPHY, POLITICAL SCIENCE, PSYCHOLOGY, SOCIOLOGY/CONFLICT ANALYSIS (9 CREDITS IN THREE DEPTS)

_____ 3 _____
 _____ 3 _____
 _____ 3 _____

GROUP III - 14-16 CREDITS/4 COURSES

- A. BIOLOGY, CHEMISTRY, GEOLOGY or PHYSICAL GEOGRAPHY, PHYSICS (TWO DIFFERENT LABORATORY SCIENCES)

_____ 4 _____
 _____ 4 _____
 PHYS 221 Recommended

- B. 3 Credits FROM III-A AND/OR MATH/COSC (Need not be lab)

(SATISFIED BY MAJOR) 3-4 X

- C. 3 Credits FROM MATH

(SATISFIED BY MAJOR) 3-4 X

GROUP IV - 3 CREDITS/1 COURSE

PHEC 106 3 _____

CORE REQUIREMENTS

- *MATH 201 CALCULUS I 4 _____
- *MATH 202 CALCULUS II 4 _____
- *MATH 210 DISCRETE MATH 4 _____
- 3 STATISTICAL THINKING^η 3 _____
- 4 STATISTICS LABORATORY 1 _____
- *MATH 306 LINEAR ALGEBRA 4 _____
- *MATH 310 CALCULUS III 4 _____
- *COSC 120 COMPUTER PROGRAMMING 4 _____

ADDITIONAL REQUIREMENTS

- *MATH 311 DIFFERENTIAL EQUATIONS I 4 _____
- *MATH 451 ANALYSIS I 3 _____
- *MATH ¾ 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 _____ 3 _____

and 2 400-level MATH courses

*MATH _____ 3 _____

*MATH _____ 3 _____

APPLIED OPTION

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

PLUS Two of the following:

- 60 OPERATIONS RESEARCH
- 65 MATHEMATICAL MODELING
- 71 NUMERICAL METHODS
- 75 DYNAMICS & CHAOS
- 93 ADV. TOPICS IN STATISTICS

OTHER ELECTIVES

(Chosen to bring the total to 120 credit hours)

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

η 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 A-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.