

REVISED (July 19, 2006)

ADVISEMENT GUIDE FOR MATH MAJORS MATRICULATED BEFORE FALL 2006

Changes in the Mathematics major, effective Fall 2006:

- (1) The Math major no longer requires Physics II with Calculus, and the traditional track of the major also no longer requires Computer Science II.
- (2) The present Calculus sequence of Calculus I, II, and Multivariable Calculus is replaced by Calculus I, II, III, and IV.
- (3) History of Mathematics is a required course for all majors, and is a capstone course, with a pre-or-co-requisite of Introduction to Analysis and a prerequisite of Abstract Algebra. This course will be offered every Fall semester. For continuing students, the prereq. of Abstract Algebra is replaced by pre-or-co-req. of Abstract Algebra or a prereq. of SMTH 231 Linear Algebra (not the new Math 262 Linear Algebra)].
- (4) Changes in prerequisites.
 - (a) Introduction to Analysis: prerequisites of Discrete Structures and Calculus III
 - (b) Differential Equations: prerequisites of Discrete Structures and Calculus III
 - (c) Probability: prerequisite of Discrete Structures and pre-or-co-requisite of Calculus II
- (5) Abstract Algebra will be offered every Spring (instead of every Fall) semester.
- (6) Course numbers have changed, but not their levels (except for Abstract Algebra and Introduction to Analysis). That is: 200 level courses are still numbered in the 200's, 300 level courses are still numbered in the 300's, and 400 level courses remain in the 400's.

Notes

- (1) All continuing students may choose to follow the current math major requirements, except possibly with respect to the calculus sequence, as follows: Those students who will not have completed Calculus II before Fall 2006, will complete the calculus sequence with the appropriate courses from the new calculus sequence, Calculus I-IV. (For example, if they have completed only SMTH 111 Calculus I, they take Calculus II-IV.) Those students who have only completed SMTH 112 Calculus II before Fall 2006, should take Multivariable Calculus in Fall 2006 (the last time this course will be offered) to complete the Calculus sequence (but could elect instead to complete the new Calculus III and IV).
- (2) Continuing students may elect to convert to the new major requirements, aside from the Calculus sequence, as follows:
 - (a) Students in the Teacher Ed track must take an additional math course at the 200-level or above (not Calculus III or IV), in place of Physics II with Calculus.
 - (b) Students in the Traditional track who:
 - (i) Take exactly one of the two courses Physics II with Calculus and Computer Science II, must take History of Mathematics (as well as the 3 electives required in the major, 2 of which are at the 300 level or above). Or
 - (ii) Take neither Physics II with Calculus nor Computer Science II, must take History of Mathematics and one additional math elective at the 200-level or above (not Calculus III or IV), (as well as the 3 electives required in the major, 2 of which are at the 300 level or above).
- (3) The TAS school core has changed to require just one SCP course, and History of Mathematics is an SCP course.