MAT: Mathematics Courses

Courses

MAT 1033  Intermediate Algebra
4 sh (may not be repeated for credit)
Provides preparation in the elements of algebra that are required for higher mathematics and statistics courses. Covers basic principles and techniques of the following topics: factoring algebraic expressions, manipulation of algebraic fractions, radicals and exponents; complex numbers, linear, quadratic and rational equations, systems of linear inequalities and their graphical representation, introduction to functions. College preparatory algebra or appropriate score on placement test is required prior to taking this course.

MAT 1905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAT 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAT 4500  Undergraduate Proseminar in Mathematics/Statistics
1 sh (may not be repeated for credit)
Each senior (except students with the secondary track specialization) shall, under the supervision of a project advisor, independently investigate a topic or topics in mathematics/statistics or mathematics education. The student shall submit a formal written report and make an oral presentation of the results of his/her investigations. The goal of the proseminar is to provide students an opportunity to integrate the total experience gained during their graduate training. Graded on satisfactory/unsatisfactory basis only. Senior standing and permission is required.

MAT 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAT 6903  Mathematics Research 1
3 sh (may not be repeated for credit)
This course will give students the opportunity to engage in group and independent research projects. Research topics and materials vary according to instructor with the thrust being applied or theoretical mathematics. Technical reports and oral presentations will be expected of each student. Students must have completed 15 hours of graduate course work in the program and have maintained at least a 3.0 GPA. Students must also commit to both fall and spring sections of the course.

MAT 6904  Mathematics Research 2
3 sh (may not be repeated for credit)
Prerequisite: MAT 6903
This course will give students the opportunity to engage in group and independent research projects. Research topics and materials vary according to instructor with the thrust being applied or theoretical mathematics. Technical reports and oral presentations will be expected of each student.

MAT 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAT 6930  Proseminar in Mathematics
1 sh (may not be repeated for credit)
Each M.A. or M.A.T. candidate (except those who choose the thesis option) shall, under the direction of a project advisor, independently investigate a topic or topics in mathematics/statistics or mathematics education through the study of journal articles or other appropriate sources. The candidate shall submit a formal written report and make an oral presentation of the results of his/her investigations. The goal of the proseminar is to provide students an opportunity to integrate the total experience gained during their graduate training. Graded on satisfactory/unsatisfactory basis only. M.A. candidacy and permission is required.

MAT 6971  Thesis
1-6 sh (may be repeated for up to 8 sh of credit)
Graded on satisfactory/unsatisfactory basis only. Permission is required.