GRADUATE COURSES

The following courses are available to those preparing for degree language examinations or for improvement in reading ability:

FREN505   **(5)**
(merges FREN501, parts of FREN502)
Reading French
For students without a working knowledge in French; an introduction to the grammar and syntax of French for the purpose of translating written French into English. May count toward a general elective only.

GRMN505   **(5)**
(merges GRMN501, parts of GRMN502)
Reading German
For students without a working knowledge in German; an introduction to the grammar and syntax of German for the purpose of translating written German into English. May count toward a general elective only.

INLS575   **(1-3)**
Topics in _____
A study of selected topics in language, literature, or civilization. Topics and credits to be announced. Repeatable with different topics.

INLS590   **(1-3)**
Directed Study/Reading/Research/Project
Studies in the area of French/Spanish language, literature, or civilization, as determined in consultation with the instructor.

MATHEMATICS

Haughey Hall, Room 121
(616) 471-3423
math-info@andrews.edu
http://www.andrews.edu/MATH/

Faculty

_____, *Chair*
Kenneth L. Franz
Ronald D. Johnson
Donald H. Rhoads
Lynelle M. Weldon

Lecturers
Aurora P. Burdick
Keith G. Calkins

Academic Programs	Credits
BS: Mathematics Education	30
BS: Mathematics	39
Applied Mathematics	
Preparation for Secondary School	
Mathematics Teaching	
Preparation for Graduate Study in	
Mathematics	
Minor in Mathematics	20

Students planning to major in math will be more competitive in their eventual job search if they major in more than one area. Good combinations are (1) math-physics, (2) math- engineering, (3) math-computer science, or (4) math-accounting.

Undergraduate Programs

BS: Mathematics—39
MATH141, 142, 240,281, 286, CPTR125, STAT340
And at least 15 credits in additional courses chosen in consultation with a departmental advisor from MATH355, 405, 408, 425, 431, 432, 441, 442, 475, 487, 495.

Minor in Mathematics—20
MATH141, 142, 281
And at least 9 credits in additional courses chosen in consultation with a departmental advisor from

MATH165   **V (4)**
College Algebra
Distance education —see content above.

MATH168   **(4)**
(merges MATH162, part of MATH165)
Algebra with Trigonometry
A study of linear equations and inequalities; algebraic, logarithmic, and exponential functions; polynomials and complex numbers. Includes trigonometric functions and identities. Primarily for Technology students. Prerequisite: MPE 2.0, and one year of high-school geometry. *Fall*

MATH182   **(3)**
Calculus with Applications
Introduction to calculus of functions of one variable, including finding maxima and minima; partial derivatives; applications to problems in business and the social sciences. Prerequisite: MATH165. *Spring*

MATH215   **(3)**
Applied Linear Algebra
Vectors, matrices, determinants, and eigen values, with emphasis on applications. Credit may not be earned in this course and in MATH281. Prerequisites: MATH182, or 141. *Spring*

MATH240   **(4)**
(was part of MATH283)
Calculus III
Curves and surfaces, directional derivatives, multiple integrals, line and surface integrals, integral theorems. Prerequisites: MATH142. *Fall*

MATH281   **(3)**
Linear Algebra
Vector spaces, linear mappings, solution of sets of linear equations, bilinear and quadratic mappings. Prerequisite: MATH141 or consent of instructor. *Spring*

MATH286   **(3)**
(was part of MATH282)
Differential Equations