

## Linguistics (LING)

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### LING 400 LINGUISTIC ANALYSIS (4)

Introduction to phonological and grammatical analysis. Includes articulatory phonetics, methods and practice in the analysis of sound systems, with attention given to American English. Also includes grammatical analysis, methods and practice in the analysis of word and sentence structure, with emphasis on non-Western European languages. Prerequisite: LING 200 or equivalent.

### LING 403 MEANING, CONTEXT, AND REFERENCE (3)

Introduction to the linguistic approach to the study of meaning, including the ways in which meaning is determined by language use. Includes issues of semantics and pragmatics. Prerequisite: LING 200 or consent of instructor.

### LING 432 LANGUAGE IN SOCIOPOLITICAL CONTEXT (4)

Focus on such topics as language attitudes, political power and linguistic equality, language and sociopolitical institutions, and language planning. Practical introduction to the insights offered by discourse analysis to the study of language varieties reflected in particular geographical regions, and by members of particular social classes/groups. Prerequisite: LING 200 or consent of instructor. Cross-listed as ANTH 383.

### LING 490 TOPICS IN LINGUISTICS (4)

In-depth examination of a specific topic within Linguistics. Topics vary with each offering. May be repeated for credit with departmental approval.

### LING 495 SPECIAL STUDIES (1-4)

Students interested in Special Studies in linguistics must fill out a special studies application by the end of the first week of the semester. Prerequisites: LING 200 or an appropriate upper-division course in linguistics or another discipline; consent of supervising faculty member and approval of program coordinator.

### LING 498 PRACTICUM FOR TEACHING ESL (2)

This final course in the TESL Certificate Program is a practical experience in teaching English as a Second Language. With the guidance of the coordinator/instructor, students will find placement in an ESL class. Students must complete approximately 90 hours of service with emphasis on actual classroom teaching, but the time commitment also includes lesson preparation, meetings, and grading papers. Students will be observed by the instructor (once or twice during the semester). There will also be three seminar meetings, times to be arranged.

### LING 499 INTERNSHIP IN APPLIED LINGUISTICS (1-3)

Practical experience entailing 50-60 hours for the semester in teaching English as a second language or in the development of ESL materials. Prerequisite or co-requisite: LING 441 or 442.

### LING 595 SPECIAL STUDIES (1-3)

Students interested in Special Studies in linguistics must complete a special studies application by the end of the first week of the semester. Prerequisites: graduate standing and consent of instructor.

## Mathematics (MATH)

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### MATH 035 ELEMENTARY ALGEBRA (4)

Real numbers, linear equations and inequalities, quadratic equations, polynomial operations, radical and exponential expressions. Prerequisite: placement based on ELM examination taken within the past two years. Course credit is not applicable toward graduation.

### MATH 045 INTERMEDIATE ALGEBRA (4)

Linear, quadratic, radical, rational, exponential, and logarithmic functions and their graphs. Conic sections. Prerequisite: MATH 35 or equivalent, or placement based on ELM examination taken within the past two years. Course credit is not applicable toward graduation.

### MATH 103 ETHNOMATHEMATICS (3)

This course examines the mathematics of many indigenous cultures, especially those of North and South America, Africa, and Oceania. It will examine the use of mathematics in commerce, land measure and surveying, games, kinship, measurement of time, navigation, data storage, and other topics. The mathematics involved includes number bases, probability, geometry, number theory, lattice theory, and many other topics of interest in modern mathematics. This class is recommended for liberal arts students who are interested in studying other cultures. Satisfies the Area B4 GE requirement for mathematics. Prerequisite: satisfaction of ELM requirement.

### MATH 104 INTRODUCTION TO MODERN MATHEMATICS (3)

A class designed to explore the beauty and relevance of mathematics. Topics may include puzzles, paradoxes, and logic; axiomatic systems; biographies; infinity of the counting numbers and higher infinities; historical crises and breakthroughs in mathematics; and uncertainty. This class is recommended for liberal arts students. Satisfies the GE Area B4 requirement for mathematics. Prerequisite: satisfaction of ELM requirement.

### MATH 105 MATHEMATICS AND POLITICS (3)

This course will explore mathematical achievements in the theory of politics. Topics may include: escalation, conflict, yes-no voting, political power, and social choice. This course has an enormous cultural content, while at the same time dealing with important mathematical ideas. This class is especially suitable for social science students. Satisfies the GE Area B4 requirement for mathematics. Prerequisite: satisfaction of ELM requirement.

### MATH 111 SYMMETRY IN THE ARTS AND SCIENCES (3)

This class explores the symmetries that exist in art as well as the natural world around us, and how symmetry can be described in terms of mathematics. A central theme is the contribution of mathematics to other fields, such as architecture and decorative art, engineering of mechanical devices, music and dance, evolution and anatomy, crystallography, chemical bonding and atomic structure, philosophy, and mathematical proofs. Satisfies the GE Area B4 requirement for mathematics. Prerequisite: satisfaction of ELM requirement.

### MATH 131 INTRODUCTION TO FINITE MATHEMATICS (3)

Designed to give students an understanding of finite mathematics applied in the modern world to social sciences, economic analysis, statistical analysis, and decision making. Topics include linear models, linear programming, financial mathematics, sets, combinatorics, probability, and statistics. Recommended for students with interests in the social sciences and management. Satisfies the GE Area B4 requirement for mathematics. Prerequisite: satisfaction of ELM requirement.

### MATH 141 STUDIES IN . . . (3)

Topics and approaches may vary. Please consult the current Schedule of Classes for details. Satisfies the GE Area B4 requirement for mathematics. Prerequisite: satisfaction of ELM requirement.