

Linguistics (LING)

LING 200 INTRODUCTION TO LINGUISTIC STUDIES (3)

The nature and structure of natural language; language and the mind; child language acquisition; role and function of language in the context of personal and group interactions and identities; language and other communication systems in culture and society; and how language changes using the skills and insights afforded by the scientific study of language. Satisfies GE, category D5 (Contemporary International Perspectives).

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 430 LANGUAGE ACQUISITION AND COMMUNICATIVE DEVELOPMENT (3)

Investigation of the processes underlying the acquisition of language in childhood and beyond including both first and second languages. Examination of various perceptual, cognitive, and social skills that interact with communicative development. Consideration of key questions concerning the nature of stages in development, the role of innate linguistic knowledge, and the role of experience in language acquisition. Prerequisite: LING 200.

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.

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. Prerequisite: LING 200 or an appropriate upper-division course in linguistics or another discipline; consent of supervising faculty member and approval of program coordinator.

LING 499 INTERNSHIP: 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 corequisite: LING 441 or 442. To be taken one time only.

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. Prerequisite: graduate standing and consent of instructor.

Mathematics (MATH)

MATH 35 ELEMENTARY ALGEBRA (4)

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

MATH 45 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 GE requirement for mathematics, category B4. 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 GE requirement for mathematics, category B4. 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 GE requirement for mathematics, category B4. Prerequisite: satisfaction of ELM requirement.

MATH 107 PRECALCULUS MATHEMATICS (4)

Covers a brief review of college algebra; functional notation, composition, and decomposition of functions, inverse functions; behavior of families of functions such as polynomial, rational, exponential, and logarithmic; trigonometric functions, equations, and identities; and some mathematical modeling. Emphasis on problem solving. Satisfies the GE requirement for mathematics, category B4. Prerequisite: satisfaction of ELM requirement. CAN MATH 16.

MATH 107W PRECALCULUS WORKSHOP (2)

A workshop designed to be taken with MATH 107. Exploration of precalculus concepts through problem solving in a group setting. Cr/NC only. Corequisite: MATH 107.