



INDIANA UNIVERSITY

**University Graduate School
2008-2009
Academic Bulletin**

Linguistics

College of Arts and Sciences Bloomington

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Departmental URL
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Graduate Faculty

(An asterisk [*] denotes membership in the University Graduate School faculty with the endorsement to direct doctoral dissertations.)

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Distinguished Professor Emeritus
Paul Newman*

Professors

Robert Botne*, Stuart Davis*, Steven Laurence Franks* (Slavic Languages and Literatures), Samuel G. Obeng*, Robert F. Port* (Cognitive Science), Albert Valdman* (Emeritus, French and Italian)

Associate Professors

Julie Auger* (French and Italian), J. Clancy Clements* (Spanish and Portuguese), Kenneth J. de Jong*, Yoshihisa Kitagawa*, Barbara Vance* (French and Italian)

Clinical Associate Professors
Alwiya Omar (African Studies)

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Adjunct Associate Professors

Laurent Dekydtspotter* (French and Italian, Second Language Studies), George Fowler* (Slavic Languages and Literatures), Michael Gasser* (Cognitive Sciences, Computer Science), Phil LeSourd* (Anthropology, Second Language Studies), John Paolillo* (Informatics, Library and Information Science, Informatics)

Adjunct Assistant Professor

Damir Cavar

Academic Advising

For Master of Arts in Linguistics and Doctor of Philosophy in Linguistics: Professor Robert Botne*, Memorial Hall 322, (812) 855-6456.

Degrees Offered

Master of Arts in Linguistics, Doctor of Philosophy in Linguistics

Special Departmental Requirements

(See also general University Graduate School requirements.)

Master of Arts in Linguistics

Admission Requirements

Admission to the M.A. program will be based on evaluations of (1) undergraduate grade record, (2) level of achievement in the Graduate Record Examination General Test, (3) three letters of recommendation, and (4) undergraduate exposure to linguistics and related course work. Students not satisfying requirement (4) may be admitted but may be required to do course work prerequisite to introductory graduate courses.

Thesis

Optional; maximum of 4 credit hours.

Final Examination

None.

Course Requirements

A total of 30 credit hours, including L520, L530, L541, L542, and L543. A grade point average of 3.0 (B) must be achieved in these five core courses. Additional electives as approved by the department. Specific course requirements may be met by

taking a higher level course in the same area. A minimum of 20 credit hours must be from linguistics department offerings.

Foreign Language Requirements

Reading knowledge of one foreign language approved by the department and knowledge of the structure of a language or languages other than English and outside the student's general language family. (The L653-L654 sequence may satisfy the second part of this requirement.)

Master of Arts in Linguistics with a Concentration in Computational Linguistics

Computational linguistics is an interdisciplinary field which addresses the use of computers to process or produce human language. Linguistics contributes to this field an understanding of the special properties of language data, and also provides theories and descriptions of language structure and use. Computational linguistics is largely an applied discipline concerned with practical problems. Typical applications include: natural language processing, machine translation (translating from one language to another), speech synthesis, speech production, information retrieval (finding relevant documents or parts of documents in large collections of texts), cognitive modeling, and, in general, almost anything dealing with natural language interfaces.

Course Requirements

The master's track in computational linguistics consists of a minimum of 30 credit hours to include L541, L542, L543, L545, and L645. A grade point average of 3.0 (B) must be achieved in these five core courses. Students must also fulfill a specialization course requirement by taking two of the following courses: B651 (Computer Science), Q520 (Cognitive Science), S522 (Speech and Hearing Sciences) and seminar courses such as P657 (Psychology) and L700 (Linguistics) approved by the student's academic advisor. Three additional electives must be taken. A minimum of 20 credit hours must be from linguistics department offerings. Outside electives must be approved by the student's academic advisor.

Programming Language Requirement

One computer programming course or the equivalent approved by the student's academic advisor.

Foreign Language Requirement

Reading knowledge of one foreign language approved by the department.

Doctor of Philosophy Degree

Admission Requirements

Admission to the Ph.D. program will be based upon evaluation of (1) previous academic record, (2) level of achievement on the Graduate Record Examination General Test, (3) three letters of recommendation, (4) previous exposure to linguistics and related course work, and (5) compatibility of interests with those of the faculty.

Fields of Study

The doctorate is normally pursued in areas such as phonetics, phonology, morphology, syntax, semantics, historical linguistics, African linguistics, computational linguistics, applied linguistics (including second-language acquisition), and sociolinguistics. Other concentrations, including a combined degree with cognitive science, are also possible with the approval of the department.

Course Requirements

A minimum of 90 credit hours, including dissertation. Specific requirements include one graduate course each in phonetics, phonology, syntax, historical linguistics, sociolinguistics, and language acquisition, plus at least four courses in linguistics at the 600-700 levels, one of which must be L642 or L643 for students in general linguistics. Only one of these four courses may be taken outside the Department of Linguistics. L653, the first half of the field methods sequence, may not be counted if it is used in partial fulfillment of the language structure requirement. Additional course requirements may be set by the student's advisory committee.

Minor

The choice of a minor field should be agreed to by the student's advisory committee. The specific requirements for the minor are established by the department that grants the minor. The student is responsible for ascertaining what those requirements are and for meeting them.

Advisory Committee

All students in the Ph.D. program will select an advisory committee consisting of at least three faculty members, one of whom should normally represent the student's minor field. The committee must be selected no later than the end of the semester following the completion of the master's degree at Indiana University, or, in the case of students entering the program with master's degrees from other institutions, no later than two semesters after matriculation.

Students will plan their programs with the advisory committee, which will be responsible for counseling students with regard to the qualifying examination, setting the examination, and administering it.

Foreign Language Structure

Knowledge of the structure of a language other than English and outside the student's general language family (choice to be determined in consultation with the student's advisory committee).

Research Tools Requirements

(1) Reading or speaking knowledge of a foreign language relevant and applicable to doctoral study in the student's research area, and (2) proficiency in a research skill appropriate to the student's research area, including, but not limited to, reading knowledge in an additional foreign language, statistics, logic, programming, methods in social science research, and field methods. Proficiency is normally demonstrated by two semesters of appropriate instruction. Students may not count field methods classes for both the foreign language structure and

research tools requirement. The choice of appropriate research tools is to be determined in consultation with the student's advisory committee.

Qualifying Examination

Comprehensive; the examination is on two distinct areas of linguistics and typically requires the student to write two papers (of publishable quality). Specific focus and scheduling of the examination is determined by the student's advisory committee.

Research Proposal

After nomination to candidacy, the student will select a research committee composed of no fewer than three members of the Department of Linguistics faculty and an outside representative. This committee must approve the proposed dissertation topic.

Final Examination

Oral defense of dissertation. This defense is open.

Ph.D. in Linguistics with a Concentration in African Languages and Linguistics

Course Requirements

A minimum of 90 credit hours, including dissertation. Specific requirements include A501, L653-L654, one graduate-level course each in phonetics, phonology, syntax, and historical linguistics, plus at least two additional courses in linguistics at the 600-700 levels. Where appropriate, additional courses may be assigned by the student's advisory committee.

Foreign Language Requirements

Three languages: (1) proficiency in two foreign languages, one of which must be an African language and the other normally French or German; and (2) knowledge of the structure of a foreign language or language group other than Romance or Germanic.

(All other requirements are the same as the above for the Ph.D. in Linguistics.)

Ph.D. in Linguistics with a Concentration in Computational Linguistics

Course Requirements

A minimum of 90 credit hours, including dissertation. Specific requirements include L545, L645, L615, L555, one graduate-level course each in phonetics, phonology, syntax, and at least two additional courses in linguistics at the 600-700 levels. Where appropriate, additional courses may be assigned by the student's advisory committee.

Research Tool Requirements

The student must demonstrate proficiency (1), in the basics of discrete mathematics or mathematical linguistics, which can be met by courses such as L611 or Q520; and (2) in programming techniques, with working knowledge of at least two programming languages.

Qualifying Examination

The qualifying exam is comprehensive; the examination is on two distinct areas of computational linguistics and/or linguistics. At least one of the qualifying examinations must entail a practical software artifact. The artifact may be a program, a computational grammar, an implemented scheme for corpus annotation, or some other approved artifact. The other examination may take the form of a written paper (of publishable quality) or a written exam. Specific focus and scheduling of the examination is determined by the student's advisory committee.

(All other requirements are the same as the above for the Ph.D. in Linguistics.)

Ph.D. Minors

Ph.D. Minor in Linguistics

Doctoral students in other departments may choose linguistics as an outside minor. Twelve (12) credit hours of approved courses are required; at least three of the courses must be from the Department of linguistics. A grade point average of 3.0 (B) or higher must be achieved in these courses. The specific program for satisfying this requirement should be developed in consultation with the linguistics outside minor advisor.

Ph.D. Minor in African Languages and Linguistics

The minor consists of a minimum of four courses (12 credits) including the following: (1) one course in an African language at the 200 level or higher, (2) A501, and (3) two additional courses in African languages or linguistics approved by the student's minor advisor. A grade point average of 3.0 (B) or better must be achieved in these courses.

Ph.D. Minor in Computational Linguistics

Requirements: The minor consists of a minimum of 15 credit hours of course work, including the following: (1) L545 and L645, (2) one of L503, L541, L542, and L543, and (3) two specialization courses taken from the following: B651 (Computer Science), Q520 (Cognitive Science), S522 (Speech and Hearing Sciences) and seminar courses such as P657 (Psychology) and L700 (Linguistics) or other courses (such as L614) approved by the minor advisor. A grade point average of 3.0 (B) or higher must be achieved in these courses.

Courses

General

L503 Survey of Linguistics I (3 cr.) An introduction to the field of linguistics. Credit not given towards the M.A. in general linguistics or the Ph.D. in linguistics.

L515 The Computer and Natural Language (3 cr.) Present-day computer systems work with human language in many different forms, whether as stored data in the form of text, typed queries to a database or search engine, or speech commands in a voice-driven computer system. We also increasingly expect computers to produce human language, such as user-friendly error messages and synthesized speech. This course surveys

a range of linguistics issues and problems in computational linguistics.

L520 Sociolinguistics (3 cr.) Examination of theoretical perspectives on language as a social phenomenon. Questions of linguistic variation, including social and contextual factors contributing to variation.

L530 Introduction to Historical Linguistics (3 cr.) P: L542 or equivalent. Principles of language classification and subclassification. Processes of diachronic change. Methods of linguistic reconstruction, especially the comparative method and internal reconstruction.

L541 Introductory Phonetics (3 cr.) Survey of speech sound types in languages of the world with practice in discrimination, transcription, and production. Introduction to acoustic phonetics, physiology of speech production, and speech perception; with concurrent laboratory section.

L542 Phonological Analysis (3 cr.) An introduction to the principles of contemporary phonological theory and tools of phonological analysis and description. The format of the course is oriented toward data-based problems from a wide variety of languages.

L543 Syntactic Analysis (3 cr.) An examination of the methods and argumentation used in syntactic analysis conducted within the framework of generative grammar. Emphasis on constructing and evaluating grammatical analyses and promoting critical understanding of the generative framework.

L544 Morphological Analysis (3 cr.) Introduction to the basic concepts and approaches to morphological analysis and description to different theories of word structure and to issues in the relation between morphology and phonology and between morphology and syntax. Data-based problem solving from a wide variety of languages.

L545 Computation and Linguistic Analysis (3 cr.) This course explores how linguistic analyses can be stated as computer programs, emphasizing the design of data structures used in linguistic analyses, the computational issues underlying them, and their use in natural language processing.

L546 Semantics (3 cr.) P: L543 or equivalent. Introduction to current semantic theory, its tools, concepts, and principles. Emphasis on constructing detailed fragments of natural language with syntactic and semantic components.

L555 Programming for Computational Linguistics (3 cr.) This course will introduce the fundamentals of programming and computer science, aiming at attaining practical skills for text processing. Through lectures, lab sessions, and weekly or bi-weekly assignments, students will learn the essentials of a given programming language (e.g., Perl) and how to apply these skills to natural language data.

L590 Linguistic Structure (3 cr.) Analysis of particular aspects of the structure of a language or of a group of closely related

languages. Methods used may include text analysis, informant work, study of secondary sources, lectures, reports.

L611 Models of Linguistic Structure (3 cr.) Formulations of linguistic structures-finite-set, phrase-structure, transformational dependency, predictive-with emphasis on their mathematical properties. Mathematical concepts underlying these formulations, such as sets, relations, Markov processes, and automata.

L614 Alternative Syntactic Theories (3 cr.) P: L543 or equivalent. An examination of a current syntactic framework other than the standard framework in terms of specific issues of syntactic analysis and general claims about the nature and organization of the syntax of natural languages. Emphasis on developing analyses within that framework. May be repeated for credit when topic varies.

L615 Corpus Linguistics (3 cr.) P: L543. Advances in computer technology have revolutionized the ways linguists can approach their data. By using computers, we can access large bodies of text (corpora) and search for phenomena. The course will give an introduction to the methodology and applications in the field.

L620 Advanced Sociolinguistics (3 cr.) Sociolinguistic methodology and data analysis, language ideology, and language in social institutions. Course topics include: quantitative and qualitative methods (variationist, ethnographic, and discourse analytic methods); Anglo-American, Continental pragmatics; language and sociocultural identity (culture, politeness, power, solidarity, and gender); and institutional discourse (juridical, therapeutic, political, religious, etc.).

L625 Bilingualism and Language Contact (3 cr.) Problems of multilingualism, including diglossia. Examination of selected cases illustrating the relationship between language contact and linguistic change.

L630 Lexicology (3 cr.) Analysis of the lexical structure of languages. The word and its morphological and semantic properties. Application of lexicology to practical problems in dictionary making (lexicography).

L636 Pidgins and Creoles (3 cr.) Survey of the field of pidgin and creole linguistics: presentation of the structure of selected prototypical pidgins and creoles; review of the theories for the genesis of creoles and their relationship to current issues in language acquisition and historical linguistics; discussion of language planning issues specific to pidgins and creoles, as well as discussion of current issues.

L641 Advanced Phonetics (3 cr.) P: L541 or equivalent. Experimental analysis of the speech signal; speech articulation and the structure of phonetic space. A survey of current theories of speech production and perception with experience designing and conducting experiments, and some consideration of phonetic factors that determine the choice of particular sound contrasts in languages.

L642 Advanced Phonological Description (3 cr.) P: L542 or equivalent. Problems of phonological description and their theoretical implications. Practice in formulating and evaluating explanatory statements about various phonetic, phonotactic, and morphophonemic properties of languages.

L643 Advanced Syntax (3 cr.) P: L543 or equivalent. Syntactic analysis and recent developments of principles and parameters/minimalist theory. Taking up from L543, reviews core modules of grammar from L543 and examines topics such as logical form, empty categories, barriers, functional categories, and relativized minimality. Introduces concepts of minimalist theory. Training in abstract and squib writing, paper presentation.

L645 Advanced Natural Language Processing (3 cr.) This course explores the needs of working natural language processing systems with attention to statistical and corpus linguistic methods in natural language processing, and their uses in data mining, information retrieval, lexicography, and other practical domains.

L653-L654 Field Methods in Linguistics I-II (3-3 cr.) Techniques of data collection and analysis based on work with a native speaker of a language unknown to the students.

L670 Language Typology (3 cr.) Introduction to linguistic typology, the study of how languages differ and how they are alike in terms of formal features. Focuses on a variety of syntactic and morphological features of languages including: lexical classes, word order, case and agreement systems, animacy, definiteness, and gender; valence-changing devices; verbal categories and subordination.

L690 Advanced Readings in Linguistics (1-4 cr.) S/F grading.

L695 M.A. Thesis Research (1-4 cr.)**

L700 Seminar on Current Issues (1-4 cr.) This seminar will deal with major books and articles that have defined important areas of debate in the current development of linguistic theory. The specific title will be announced well in advance of each semester. Course may be retaken for up to 12 credit hours.

L710 Seminar in Phonetics (3 cr.) Selected problems in the acoustic, motor, and auditory structure of the sounds of human language. May be repeated for credit when topic changes.

L712 Seminar in Phonology (3 cr.) Research and reports on selected problems of generative phonology. May be repeated for credit when topic changes.

L714 Seminar in Syntax (3 cr.) Advanced treatment of a topic, construction, or theoretical concept in syntax using a current theoretical model. May be repeated for credit when topic changes.

L715 Seminar in Computational Linguistics (3 cr.) The seminar will introduce students to current research in the field of Computational Linguistics. May be repeated for up to 15 credits.

L720 Seminar in Sociolinguistics (3 cr.) Selected problems concerning the relationship between language and society. May be repeated for credit when topic changes.

L760 Seminar in Historical Linguistics (3 cr.) Selected problems concerning linguistic reconstruction, processes of diachronic change, and language classification. May be repeated for credit when topic changes.

L780 Seminar in Semantics (3 cr.) Selected problems in the area of meaning and the relationship between language and semantic interpretation. May be repeated for credit when topic changes.

L800 Research (cr. arr.)**

The Linguistic Study of African Languages

A501 Introduction to African Linguistics (3 cr.) Introduction to the linguistic study of African languages; questions of language distribution, typological and genetic classification, comparative reconstruction, and structural aspects of individual languages.

A502 Language in Africa (3 cr.) Language in the lives and behavior of African people. Dynamics of language spread and multilingualism. Literacy, language, and education. Linguistic ritual: greetings, condolences, apologies, leave-takings. Joking and insulting relationships. Stories and storytellers. Proverbs and their use. Power of language in society.

A503 Bantu Linguistics (3 cr.) Structural comparisons of Bantu languages at levels of phonology, morphology, and syntax, noting differences and similarities of various East African languages.

A504 Chadic Linguistics (3 cr.) R: Reading knowledge of French or German. An introduction to the Chadic language family. The relationship of Chadic to Afro-Asiatic and the membership and internal classification of the Chadic family. Common structural features of present-day Chadic languages and the reconstruction of Proto-Chadic.

A747 Seminar in African Linguistics (4 cr.) Research on specific problems of African linguistics. Course may be repeated for credit.

African and Other Languages

A400 Advanced Individual Study of an African Language (1-4 cr.; 12 cr. max.) May be repeated for credit.

L506 Tutorial Instruction in Foreign Languages (cr. arr.) May be repeated for credit.

Bambara/Bamana

B101-B102 Elementary Bambara I-II (3-3 cr.)

B201-B202 Intermediate Bamana I-II (3-3 cr.)

B301-B302 Advanced Bamana I-II (3-3 cr.)

Hausa

H101-H102 Elementary Hausa I-II (3-3 cr.)¹

H201-H202 Intermediate Hausa I-II (3-3 cr.)

H301-H302 Advanced Hausa I-II (3-3 cr.)

Swahili

S101-S102 Elementary Swahili I-II (3-3 cr.)¹

S201-S202 Intermediate Swahili I-II (3-3 cr.)

S301-S302 Advanced Swahili I-II (3-3 cr.)

Akan

W501 Elementary Akan I (3 cr.) Introduction to Twi, a major language of West Africa, spoken by the Akan peoples of Ghana. With approximately three million speakers, it is the major language of Ghana. It is also spoken by thousands of people in the Ivory Coast. Basic grammatical structures and vocabulary, emphasis on the spoken language.

W502 Elementary Akan II (3 cr.) The second part of a sequence. P: Grade C or better in LING W501. Basic grammatical structures and vocabulary. Emphasis on spoken language—oral and listening comprehension, language use in specific social settings like the market, school, hospital, doctor's office, among others. Important cultural points like food, clothing, marriage, etc.

W601 Intermediate Akan I (3 cr.) The first course in a two-semester sequence. P: Grade of C or better in LING W502 or equivalent proficiency. Study of more complex grammatical structures, with emphasis on active skills: speaking, and writing. Reading of elementary texts.

W602 Intermediate Akan II (3 cr.) The second part of a two-semester sequence. P: Grade of C or better in LING W601 or equivalent proficiency. Study of more complex grammatical structures, with emphasis on active skills: speaking, writing and reading texts. Attention will be on oral and written composition, reading and listening comprehension, translation from English to Twi and from Twi to English. Description of cultural events shown on video or CD-ROM.

W701 Advanced Akan I (3 cr.) P: Grade of C or better in LING W602 or equivalent proficiency. Examination of subtle nuances in grammatical structures. Advanced readings of traditional and modern literature. Composition, oriented to needs of students enrolled.

W702 Advanced Akan II (3 cr.) P: Grade of C or better in LING W701 or equivalent proficiency. Study of complex grammatical structures and of more complex contextual discourse patterns. Advanced readings of traditional and modern literature. Advanced oral and written compositions, advanced reading and listening comprehension and translation of complex texts from English to Twi. The course will be completely oriented to the needs of the students enrolled.

Zulu

Z501 Elementary Zulu I (3 cr.) The first part of a two-semester sequence. Introduction to Zulu language and culture. Zulu is spoken in South Africa and the neighboring countries of Zim-

babwe, Malawi, Namibia, Mozambique Swaziland, and Lesotho by about 10 million people. Basic grammatical structures and vocabulary, emphasis on the spoken language and cultural awareness.

Z502 Elementary Zulu II (3 cr.) The second part of a two-semester sequence. P: Grade of C or better in LING Z501 or equivalent proficiency. Basic grammatical structures and vocabulary. Emphasis is on the spoken language—oral and listening comprehension, language use in specific social settings. Videos and internet resources will be used.

Z601 Intermediate Zulu I (3 cr.) The first part of a two-semester sequence. P: Grade of C or better LING Z502 or equivalent proficiency. Study of more complex grammatical structures, with emphasis on active skills: speaking, writing, and reading texts. Attention will be on oral and written compositions, reading and listening comprehension, and translation of texts. Description of cultural events through the use of videos and the Internet.

Z602 Intermediate Zulu II (3 cr.) The second part of a two-semester sequence. P: Grade of C or better in LING Z601 or equivalent proficiency. Study of more complex grammatical structures, with emphasis on active skills: speaking, writing, and reading texts. Attention will be on oral and written compositions, reading and listening comprehension, and translation of texts. Descriptions of cultural events through the use of videos and the Internet.

Z701 Advanced Zulu I (3 cr.) The first part of a two-semester sequence. P: Grade of C or better in LING Z602 or equivalent proficiency. Study of more complex grammatical structures and of more complex contextual discourse patterns. Advanced readings of traditional and modern literature. Advanced oral and written compositions, advanced listening comprehension and translation of complex texts. Use of internet resources. course will be completely oriented to the needs of the students enrolled.

Z702 Advanced Zulu II (3 cr.) The second part of a two-semester sequence. P: Grade of C or better in LING Z701 or equivalent proficiency. Study of more complex grammatical structures and of more complex contextual discourse patterns. Advanced readings of traditional and modern literature. Advanced oral written compositions, advanced listening comprehension and translation of complex texts. Use of internet resources. The course will be completely oriented to the needs of the students enrolled.

Other African Languages

F101-F102 Elementary African Languages I-II: [variable language] (3-3 cr.)¹

F201-F202 Intermediate African Languages I-II: [variable language] (3-3 cr.)

F301-F302 Advanced African Languages I-II: [variable language] (3-3 cr.)

Consult the department for courses in other areas acceptable for degree requirements.

**These courses are eligible for a deferred grade.

¹ Three (3) credit hours for graduate students; 4 credit hours for undergraduates.