

LECTURERS

Carlene Hempel, MA
Gladys McKie, BS
Lincoln McKie, BS

VISITING ASSISTANT PROFESSOR

Daniel D. Kennedy, MLA

The School of Journalism prepares students for careers in news media and related fields. The skills it emphasizes—writing, editing, video and audio production, design and graphics, and online reporting—also have broad applications in numerous other disciplines.

Students may enroll in either a five-year cooperative education program or a four-year program without co-op. The school strongly advises students to obtain cooperative education experience.

Graduates work for some of the world's best newspapers and magazines, radio and television stations, online publications, wire services, public relations departments, and advertising agencies. See pages 368–370 for course descriptions.

BA in Journalism

**COLLEGE OF ARTS AND SCIENCES
BA CORE REQUIREMENTS**

See page 46 for requirement list.

JOURNALISM MAJOR REQUIREMENTS*Journalism Courses*

Complete the following three courses with a grade of C or higher:

JRN U101	Journalism 1	4 SH
JRN U201	Journalism 2	4 SH
JRN U301	Journalism 3	4 SH

Required Journalism

Complete the following four courses:

JRN U150	Interpreting the Day's News	4 SH
JRN U350	History of Journalism	4 SH
JRN U550	Law of the Press	4 SH
JRN U650	Journalism Ethics and Issues	4 SH

Journalism Electives

Complete two journalism electives.

Journalism-Related Requirement

Complete the following course:

HST U130	Introduction to American History	4 SH
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EXPERIENTIAL EDUCATION REQUIREMENT

Complete one course in experiential education. Please see department for approved courses.

JOURNALISM MAJOR CREDIT REQUIREMENT

Complete 40 semester hours in the major.

UPPER-DIVISION ELECTIVES

Complete three general electives at 300 level or above. None of these courses may be in physical education or dance.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

BA in Cinema Studies and Journalism

See page 72.

Minor in Journalism**REQUIRED COURSES**

Complete the following six courses:

JRN U101	Journalism 1	4 SH
JRN U150	Interpreting the Day's News	4 SH
JRN U201	Journalism 2	4 SH
JRN U301	Journalism 3	4 SH
JRN U550	Law of the Press	4 SH
JRN U650	Journalism Ethics and Issues	4 SH

GPA REQUIREMENT

2.000 GPA required in the minor

LINGUISTICS

www.casdn.neu.edu/~linguistics

JANET H. RANDALL, PhD

Associate Professor and Coordinator of Linguistics Program

MATTHEWS DISTINGUISHED UNIVERSITY PROFESSORS

Harlan Lane, PhD, *Doc. ès Lettres, Psychology*

Joanne L. Miller, PhD, *Psychology*

PROFESSOR

Steven A. Sadow, PhD, *Modern Languages*

ASSOCIATE PROFESSORS

Dennis R. Cokely, PhD, *American Sign Language*

John D. Coley, PhD, *Psychology*

John N. Frampton, PhD, *Mathematics*

Samuel Gutmann, PhD, *Mathematics*

Michael R. Lipton, PhD, *Philosophy and Religion*

Neal Pearlmuter, PhD, *Psychology*

ASSISTANT PROFESSOR

Marisol Fernandez-Garcia, PhD, *Modern Languages*

LECTURER

Heather Littlefield, MA, *Linguistics*

PROFESSOR EMERITUSIrene R. Fairley, PhD, *English*

Linguistics is the scientific study of human language. A growing and exciting field, it has links to diverse fields including cognitive psychology, philosophy, neuroscience, computer science, artificial intelligence, sociology, language teaching, anthropology, and education. Linguistics is a key component of the emerging field of cognitive science, the study of the structure and functioning of human cognitive processes.

How do children learn to speak? How is language represented in the mind? What do all languages, including sign languages, have in common? How is language different from the communication systems used by whales, bees, and chimpanzees? What do we need to program into a computer in order to converse with it? How might we think about linguistic controversies, including debates about official languages, Ebonics, gender bias, and bilingualism in education? Linguistics attempts to answer each of these questions and covers a surprisingly broad range of topics related to language and communication.

Linguistics is an interdisciplinary program at Northeastern, with courses cross-listed in seven departments (African-American Studies, American Sign Language, English, Modern Languages, Philosophy and Religion, Psychology, and Sociology/Anthropology). Each course can be taken under either LIN or its cross-listed prefix.

Students majoring in linguistics can choose either a BA or BS degree, which differ only in the college core requirements. A linguistics minor is available, as are two dual majors, one in linguistics and psychology, the other in linguistics and English.

Linguistics offers a variety of co-ops, including positions at local companies involved in speech recognition and production, as well as in Northeastern's own speech perception and language processing labs. Linguistics majors can also participate in a special foreign internship opportunity, doing research at the Max Planck Institute for Psycholinguistics in the Netherlands.

Students with backgrounds in linguistics have pursued advanced degrees in fields including law, cognitive science, education, English, interpreting, business, speech pathology, computer science, and linguistics itself. Other graduates have gone on to work in research, translation, special education, and robotics. See pages 370–373 for course descriptions.

BA in Linguistics**COLLEGE OF ARTS AND SCIENCES****BA CORE REQUIREMENTS**

See page 46 for requirement list.

LINGUISTICS MAJOR REQUIREMENTS**Required Courses**

Complete the following six courses (or their cross-listed equivalents):

LIN U150	Introduction to Language and Linguistics	4 SH
LIN U350	Linguistic Analysis	4 SH

LIN U412	Language and Culture	4 SH
LIN U422	Phonology	4 SH
LIN U450	Syntax	4 SH
LIN U464	Psychology of Language	4 SH

Laboratory

Complete the two required prerequisites and then one of the two laboratory courses (or its cross-listed equivalent) or a directed study on a topic related to psycholinguistics or cognition with prior approval:

PREREQUISITES

PSY U101	Foundations of Psychology	4 SH
PSY U320	Statistics in Psychological Research	4 SH
with PSY U321	Lab for PSY U320	1 SH

LABORATORY

LIN U610	Laboratory in Psycholinguistics	4 SH
LIN U612	Laboratory in Cognition	4 SH

DIRECTED STUDY

LIN U924	Directed Study	4 SH
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Linguistics Seminar

Complete one seminar (or its cross-listed equivalent) from the following list:

LIN U654	Seminar in Linguistics	4 SH
LIN U656	Seminar in Linguistics	4 SH
LIN U658	Seminar in Psycholinguistics	4 SH
LIN U660	Seminar in Cognition	4 SH
LIN U662	Seminar in Linguistics	4 SH

Linguistics Electives

Complete three courses (or their cross-listed equivalents) that were not taken above from the following list:

LIN U215	Symbolic Logic	4 SH
LIN U402	African-American English	4 SH
LIN U428	African Languages	4 SH
LIN U430	Applied Linguistics	4 SH
LIN U432	Romance Linguistics	4 SH
LIN U434	Bilingualism	4 SH
LIN U436	Structure of Spanish	4 SH
LIN U438	Structure of French	4 SH
LIN U442	Sociolinguistics	4 SH
LIN U444	Linguistics in Education	4 SH
LIN U448	Issues in Linguistics	4 SH
LIN U452	Semantics	4 SH
LIN U454	History of English	4 SH
LIN U456	Language and Gender	4 SH
LIN U458	Topics in Linguistics	4 SH
LIN U460	ASL Linguistics	4 SH
LIN U466	Cognition	4 SH
LIN U520	Language and the Brain	4 SH
LIN U522	Psychology of Reading	4 SH
LIN U524	Language and Cognitive Development	4 SH
LIN U540	Philosophy of Language	4 SH
LIN U610	Laboratory in Psycholinguistics	4 SH
LIN U612	Laboratory in Cognition	4 SH
LIN U654	Seminar in Linguistics	4 SH
LIN U656	Seminar in Linguistics	4 SH

LIN U658	Seminar in Psycholinguistics	4 SH
LIN U660	Seminar in Cognition	4 SH
LIN U924	Directed Study	4 SH

Experiential Education

Complete the following course (or its cross-listed equivalent):

LIN U954	Experiential Education Directed Study	4 SH
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LINGUISTICS MAJOR CREDIT REQUIREMENTS

Complete 53 semester hours in the major.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

BS in Linguistics**COLLEGE OF ARTS AND SCIENCES BS CORE REQUIREMENTS FOR SOCIAL SCIENCE MAJORS**

See page 49 for requirement list.

LINGUISTICS MAJOR LANGUAGE REQUIREMENT**Language Requirement**

Complete two courses in the same language with a grade of C or higher. Proficiency at elementary level two or higher is required:

AMERICAN SIGN LANGUAGE

ASL U101	Elementary ASL 1	4 SH
ASL U102	Elementary ASL 2	4 SH
ASL U301	Intermediate ASL 1	4 SH
ASL U302	Intermediate ASL 2	4 SH
ASL U501	Advanced ASL 1	2 SH
ASL U502	Advanced ASL 2	2 SH

ARABIC

LNA U101	Elementary Arabic 1	4 SH
LNA U102	Elementary Arabic 2	4 SH
LNA U301	Arabic Conversation and Composition	4 SH

CHINESE

LNC U101	Elementary Chinese 1	4 SH
LNC U102	Elementary Chinese 2	4 SH
LNC U301	Chinese Conversation and Composition 1	4 SH
LNC U302	Chinese Conversation and Composition 2	4 SH
LNC U501	Advanced Chinese 1	4 SH
LNC U502	Advanced Chinese 2	4 SH

FRENCH

LNF U101	Elementary French 1	4 SH
LNF U102	Elementary French 2	4 SH
LNF U301	French Conversation and Composition 1	4 SH
LNF U302	French Conversation and Composition 2	4 SH
LNF U501	Advanced French	4 SH

GERMAN		
LNG U101	Elementary German 1	4 SH
LNG U102	Elementary German 2	4 SH
LNG U301	German Conversation and Composition	4 SH

HEBREW

LNH U101	Elementary Hebrew 1	4 SH
LNH U102	Elementary Hebrew 2	4 SH

ITALIAN

LNI U101	Elementary Italian 1	4 SH
LNI U102	Elementary Italian 2	4 SH
LNI U301	Italian Conversation and Composition 1	4 SH
LNI U302	Italian Conversation and Composition 2	4 SH
LNI U501	Advanced Italian 1	4 SH
LNI U502	Advanced Italian 2	4 SH

JAPANESE

LNJ U101	Elementary Japanese 1	4 SH
LNJ U102	Elementary Japanese 2	4 SH
LNJ U301	Japanese Conversation and Composition	4 SH

RUSSIAN

LNR U101	Elementary Russian 1	4 SH
LNR U102	Elementary Russian 2	4 SH
LNR U301	Russian Conversation and Composition	4 SH

SPANISH

LNS U101	Elementary Spanish 1	4 SH
LNS U102	Elementary Spanish 2	4 SH
LNS U301	Spanish Conversation and Composition 1	4 SH
LNS U302	Spanish Conversation and Composition 2	4 SH
LNS U501	Advanced Spanish	4 SH

LINGUISTICS MAJOR REQUIREMENTS**Required Courses**

Complete the following six courses (or their cross-listed equivalents):

LIN U150	Introduction to Language and Linguistics	4 SH
LIN U350	Linguistic Analysis	4 SH
LIN U412	Language and Culture	4 SH
LIN U422	Phonology	4 SH
LIN U450	Syntax	4 SH
LIN U464	Psychology of Language	4 SH

Laboratory

Complete the two required prerequisites and then one of the two laboratory courses (or its cross-listed equivalent) or a directed study on a topic related to psycholinguistics or cognition with prior approval:

PREREQUISITES

PSY U101	Foundations of Psychology	4 SH
PSY U320	Statistics in Psychological Research	4 SH
with PSY U321	Lab for PSY U320	1 SH

LABORATORY

LIN U610	Laboratory in Psycholinguistics	4 SH
LIN U612	Laboratory in Cognition	4 SH

DIRECTED STUDY

LIN U924	Directed Study	4 SH
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Linguistics Seminar

Complete one seminar (or its cross-listed equivalent) from the following list:

LIN U654	Seminar in Linguistics	4 SH
LIN U656	Seminar in Linguistics	4 SH
LIN U658	Seminar in Psycholinguistics	4 SH
LIN U660	Seminar in Cognition	4 SH
LIN U662	Seminar in Linguistics	4 SH

Linguistics Electives

Complete three courses (or their cross-listed equivalents) that were not taken above from the following list:

LIN U215	Symbolic Logic	4 SH
LIN U402	African-American English	4 SH
LIN U428	African Languages	4 SH
LIN U430	Applied Linguistics	4 SH
LIN U432	Romance Linguistics	4 SH
LIN U434	Bilingualism	4 SH
LIN U436	Structure of Spanish	4 SH
LIN U438	Structure of French	4 SH
LIN U442	Sociolinguistics	4 SH
LIN U444	Linguistics in Education	4 SH
LIN U448	Issues in Linguistics	4 SH
LIN U452	Semantics	4 SH
LIN U454	History of English	4 SH
LIN U456	Language and Gender	4 SH
LIN U458	Topics in Linguistics	4 SH
LIN U460	ASL Linguistics	4 SH
LIN U466	Cognition	4 SH
LIN U520	Language and the Brain	4 SH
LIN U522	Psychology of Reading	4 SH
LIN U524	Language and Cognitive Development	4 SH
LIN U540	Philosophy of Language	4 SH
LIN U610	Laboratory in Psycholinguistics	4 SH
LIN U612	Laboratory in Cognition	4 SH
LIN U654	Seminar in Linguistics	4 SH
LIN U656	Seminar in Linguistics	4 SH
LIN U658	Seminar in Psycholinguistics	4 SH
LIN U660	Seminar in Cognition	4 SH
LIN U924	Directed Study	4 SH

Experiential Education

Complete the following course (or its cross-listed equivalent):

LIN U954	Experiential Education Directed Study	4 SH
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LINGUISTICS MAJOR CREDIT REQUIREMENT

Complete 61 semester hours in the major.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

BA in Linguistics and English**COLLEGE OF ARTS AND SCIENCES BA CORE REQUIREMENTS FOR SPECIFIED PROGRAMS**

See page 46 for requirement list.

LINGUISTICS REQUIREMENTS**Introductory Linguistics**

Complete the following course (or its cross-listed equivalent):

LIN U150	Introduction to Language and Linguistics	4 SH
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Intermediate Linguistics

Complete the following four courses (or their cross-listed equivalents):

LIN U350	Linguistic Analysis	4 SH
LIN U412	Language and Culture	4 SH
LIN U422	Phonology	4 SH
LIN U450	Syntax	4 SH

Linguistics Electives

Complete three courses (or their cross-listed equivalents) not already taken above from the following list:

LIN U215	Symbolic Logic	4 SH
LIN U402	African-American English	4 SH
LIN U428	African Languages	4 SH
LIN U430	Applied Linguistics	4 SH
LIN U432	Romance Linguistics	4 SH
LIN U434	Bilingualism	4 SH
LIN U436	Structure of Spanish	4 SH
LIN U438	Structure of French	4 SH
LIN U442	Sociolinguistics	4 SH
LIN U444	Linguistics in Education	4 SH
LIN U448	Issues in Linguistics	4 SH
LIN U452	Semantics	4 SH
LIN U456	Language and Gender	4 SH
LIN U458	Topics in Linguistics	4 SH
LIN U460	ASL Linguistics	4 SH
LIN U464	Psychology of Language	4 SH
LIN U540	Philosophy of Language	4 SH
LIN U654	Seminar in Linguistics	4 SH
LIN U656	Seminar in Linguistics	4 SH
LIN U924	Directed Study	4 SH

ENGLISH REQUIREMENTS**Literature Backgrounds**

Complete the following course:

ENG U226	Backgrounds in English and American Literature	4 SH
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Literature Survey Courses

Complete three courses from the following list:

ENG U220	Survey of English Literature 1	4 SH
ENG U221	Survey of English Literature 2	4 SH
ENG U223	Survey of American Literature 1	4 SH
ENG U224	Survey of American Literature 2	4 SH

Shakespeare

Complete one course (or its cross-listed equivalent) from the following list:

ENG U489	Shakespeare on Film	4 SH
ENG U611	Shakespeare	4 SH
ENG U612	Shakespeare's Comedies	4 SH
ENG U613	Shakespeare's Tragedies	4 SH
ENG U614	Topics in Shakespeare	4 SH

Literature before 1800

Complete one course from the following list:

ENG U605	Medieval English Literature	4 SH
ENG U606	Topics in Medieval Literature	4 SH
ENG U610	Sixteenth-Century English Literature	4 SH
ENG U619	Eighteenth-Century English Literature	4 SH
ENG U620	Topics in Eighteenth-Century English Literature	4 SH
ENG U661	Early American Literature	4 SH

Literature after 1800

Complete one course (or its cross-listed equivalent) from the following list:

ENG U394	Modern Film	4 SH
ENG U408	The Modern Bestseller	4 SH
ENG U409	The Modern Novel	4 SH
ENG U410	Modern Drama	4 SH
ENG U411	The Modern Short Story	4 SH
ENG U412	Contemporary Fiction	4 SH
ENG U519	American Novels 1	4 SH
ENG U520	American Novels 2	4 SH
ENG U621	Romantic Poetry	4 SH
ENG U624	Victorian Literature	4 SH
ENG U625	Topics in Victorian Literature	4 SH
ENG U626	Nineteenth-Century British Fiction	4 SH
ENG U630	Major Twentieth-Century British Novelists	4 SH
ENG U631	Twentieth-Century English Literature	4 SH
ENG U663	Early African-American Literature	4 SH
ENG U665	The American Renaissance	4 SH
ENG U667	American Realism	4 SH
ENG U668	Modern American Literature	4 SH
ENG U670	Modern African-American Literature	4 SH
ENG U671	Multiethnic Literature of the U.S.	4 SH
ENG U672	Asian-American Literature	4 SH
ENG U673	U.S. Latino/Latina Literature	4 SH
ENG U674	American Indian Literature	4 SH
ENG U676	Contemporary American Literature	4 SH
ENG U687	Modern Poetry	4 SH
ENG U688	Contemporary Poetry	4 SH

Junior/Senior Seminar

Complete one course (or its cross-listed equivalent) from the following list:

ENG U654	Seminar in Linguistics	4 SH
ENG U656	Seminar in Linguistics	4 SH

LINGUISTICS/ENGLISH DUAL-MAJOR REQUIREMENTS**Experiential Education**

Complete the following course:

LIN U954	Experiential Education Directed Study	4 SH
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Integrative Course

Complete the following course (or its cross-listed equivalent):

LIN U454	History of English	4 SH
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LINGUISTICS/ENGLISH DUAL-MAJOR CREDIT REQUIREMENT

Complete 68 semester hours in the major.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

BA in Linguistics and Psychology**COLLEGE OF ARTS AND SCIENCES BA CORE REQUIREMENTS FOR SPECIFIED PROGRAMS FOR SOCIAL SCIENCE MAJORS**

See page 48 for requirement list.

LINGUISTICS REQUIREMENTS**Introductory Linguistics**

Complete the following course (or its cross-listed equivalent):

LIN U150	Introduction to Language and Linguistics	4 SH
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Intermediate/Advanced Linguistics

Complete the following four courses (or their cross-listed equivalents):

LIN U350	Linguistic Analysis	4 SH
LIN U412	Language and Culture	4 SH
LIN U422	Phonology	4 SH
LIN U450	Syntax	4 SH

Linguistics Electives

Complete three courses (or their cross-listed equivalents) from the following list:

LIN U215	Symbolic Logic	4 SH
LIN U402	African-American English	4 SH
LIN U428	African Languages	4 SH
LIN U430	Applied Linguistics	4 SH
LIN U432	Romance Linguistics	4 SH
LIN U434	Bilingualism	4 SH
LIN U436	Structure of Spanish	4 SH
LIN U438	Structure of French	4 SH
LIN U442	Sociolinguistics	4 SH
LIN U444	Linguistics in Education	4 SH

LIN U448	Issues in Linguistics	4 SH
LIN U452	Semantics	4 SH
LIN U454	History of English	4 SH
LIN U456	Language and Gender	4 SH
LIN U458	Topics in Linguistics	4 SH
LIN U460	ASL Linguistics	4 SH
LIN U540	Philosophy of Language	4 SH
LIN U654	Seminar in Linguistics	4 SH
LIN U656	Seminar in Linguistics	4 SH
LIN U924	Directed Study	4 SH

PSYCHOLOGY REQUIREMENTS

Introductory and Intermediate Psychology

Complete the following two courses:

PSY U101	Foundations of Psychology	4 SH
PSY U320	Statistics in Psychological Research	4 SH

Advanced Psychology

Complete the following two courses (or their cross-listed equivalents):

PSY U402	Social Psychology	4 SH
PSY U466	Cognition	4 SH

Psychology Lab

Complete one laboratory course (or its cross-listed equivalent) or a directed study on a topic related to psycholinguistics or cognition with prior approval:

PSY U610	Laboratory in Psycholinguistics	4 SH
PSY U612	Laboratory in Cognition	4 SH
PSY U924	Directed Study	4 SH

Psychology Seminar

Complete one seminar (or its cross-listed equivalent) from the following list:

PSY U658	Seminar in Psycholinguistics	4 SH
PSY U660	Seminar in Cognition	4 SH

Psychology Electives

Complete two courses (or their cross-listed equivalents) from the following list. A directed study on a topic related to psycholinguistics or cognition may be taken with prior approval:

PSY U356	Nonverbal Communication	4 SH
PSY U404	Developmental Psychology	4 SH
PSY U450	Learning and Motivation	4 SH
PSY U452	Introduction to Sensation and Perception	4 SH
PSY U458	Psychobiology	4 SH
PSY U520	Language and the Brain	4 SH
PSY U522	Psychology of Reading	4 SH
PSY U524	Language and Cognitive Development	4 SH
PSY U526	Categorization and Reasoning	4 SH
PSY U610	Laboratory in Psycholinguistics	4 SH
PSY U612	Laboratory in Cognition	4 SH
PSY U658	Seminar in Psycholinguistics	4 SH
PSY U660	Seminar in Cognition	4 SH
PSY U924	Directed Study	4 SH

LINGUISTICS/PSYCHOLOGY DUAL-MAJOR REQUIREMENTS

Experiential Education

Complete either an experiential education directed study or two junior/senior honors project courses:

LIN U954	Experiential Education Directed Study	4 SH
PSY U951	Experiential Education Directed Study	4 SH
PSY U970	Junior/Senior Project 1	4 SH
with PSY U971	Junior/Senior Project 2	4 SH

Integrative Course

Complete the following course (or its cross-listed equivalent):

LIN U464	Psychology of Language	4 SH
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LINGUISTICS/PSYCHOLOGY DUAL-MAJOR CREDIT REQUIREMENT

Complete 68 semester hours in the major.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

Minor in Linguistics

REQUIRED COURSES

Complete the following course:

LIN U150	Introduction to Language and Linguistics	4 SH
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Complete two of the following courses:

LIN U350	Linguistic Analysis	4 SH
LIN U422	Phonology	4 SH
LIN U450	Syntax	4 SH

ELECTIVE COURSES

Complete two linguistics courses (or cross-listed equivalents) at or above the 300 level but excluding LIN U466, LIN U612, and LIN U660.

GPA REQUIREMENT

2.000 GPA required in the minor

For more information on the linguistics minor, contact the program director, Professor Janet Randall (565 Holmes), at 617.373.3678 or at j.randall@neu.edu.

MATHEMATICS**www.math.neu.edu**

ROBERT C. MCOWEN, PhD
Professor and Chair

MATTHEWS DISTINGUISHED UNIVERSITY PROFESSOR

Mikhail Shubin, PhD

PROFESSORS

Samuel J. Blank, PhD
 Bohumil Cenk, ScD
 Stanley J. Eigen, PhD
 Terence J. Gaffney, PhD
 Maurice E. Gilmore, PhD
 Arshag B. Hajian, PhD
 Anthony Iarrobino, PhD
 Christopher K. King, PhD
 Venkatrama Lakshmi, PhD
 Marc N. Levine, PhD
 Mikhail Malioutov, PhD
 David Massey, PhD
 Richard D. Porter, PhD
 Egon Schulte, PhD
 Jayant M. Shah, PhD
 Alexandru I. Suci, PhD
 Chuu-Lian Terng, PhD
 Jerzy M. Weyman, PhD
 Andrei V. Zelevinsky, PhD

ASSOCIATE PROFESSORS

Mark Bridger, PhD
 Robert W. Case, PhD
 Aidong Adam Ding, PhD
 John N. Frampton, PhD
 Eugene H. Gover, PhD
 Samuel Gutmann, PhD
 Solomon M. Jekel, PhD
 Donald R. King, PhD
 Nishan Krikorian, PhD
 Alex Martsinkovsky, PhD
 Mark B. Ramras, PhD
 Martin Schwarz, PhD
 Thomas O. Sherman, PhD
 Gordana G. Todorov, PhD

ASSISTANT PROFESSORS

Maxim Braverman, PhD
 Peter Topalov, PhD

CLINICAL ASSISTANT PROFESSOR OF MATHEMATICAL PRACTICE

Carla B. Oblas, MS

LECTURERS

Rekha Bai, PhD
 Joan Campbell, BS
 John Lindhe, MS
 Robert A. Lupi, MA
 Steven W. Olson, ME
 Shu-Shih Wu, PhD

PROFESSORS EMERITI

Holland C. Filgo, PhD
 Gabriel Stolzenberg, PhD
 Jack Warga, PhD

Mathematics is of ever-increasing importance to our society and everyday life. It has long been the language of science and technology, and provides a rich source of methods for analyzing and solving problems encountered in the physical world. Today, mathematics is essential in virtually all fields of human endeavor, including business, the arts, and the social sciences.

The Bachelor of Arts degree requires at least eleven mathematics courses and two physics courses, in addition to the study of a foreign language; this program is appropriate for students who wish a broader liberal arts education. The Bachelor of Science degree requires at least fourteen mathematics courses and two physics courses but no foreign language study; it is more specialized, and it is recommended for those strongly interested in mathematics and science. The department also offers a minor degree in mathematics.

The major programs provide flexibility with elective courses. Students may take advantage of a range of interdisciplinary programs and may join a major in mathematics with one in such fields as computer science, physics, and biology.

Exceptional students are accepted into the honors program, and have the option to enroll in honors sections of several of their mathematics courses. All math majors may benefit from co-op opportunities in the scientific and business communities in Boston and elsewhere. Almost every job involves mathematically stimulating work that enables students to find out how math is used in the world around us.

Many of the mathematics courses that we offer use computers for visualization, modeling, and numerical approximation. The math computer lab features twenty-eight personal computers supported by student mentors in a pleasant physical environment.

Students planning to teach secondary-school mathematics must major in mathematics and take a specific minor in education, which includes course work and student teaching.

Mathematical training may lead to opportunities in applied research (natural sciences, engineering, economics, management, computer science) as well as in mathematical research, teaching, or industry. See pages 402–407 for course descriptions.

BA in Mathematics**COLLEGE OF ARTS AND SCIENCES****BA CORE REQUIREMENTS**

See page 46 for requirement list.

MATHEMATICS MAJOR REQUIREMENTS FOR BA**Problem Solving**

Complete the following course:

MTH U170 Math Discovery and Computers 4 SH

History of Mathematics

Complete the following course:

MTH U201 History of Mathematics 4 SH

Calculus

Complete the following three courses:

MTH U241 Calculus 1 for Science and Engineering 4 SH

MTH U242 Calculus 2 for Science and Engineering 4 SH

MTH U341 Calculus 3 for Science and Engineering 4 SH

Intermediate and Advanced Math

Complete the following four courses:

MTH U371 Linear Algebra 4 SH

MTH U550 Real Analysis 4 SH

or MTH U565 Topology 4 SH

MTH U560 Geometry 4 SH

or MTH U430 Number Theory 4 SH

MTH U575 Group Theory 4 SH

Mathematics Electives

Complete two electives from mathematics courses at 400 level or above:

MTH U401 to MTH U799

Required Physics

Complete the following two courses and corresponding labs:

PHY U161 Physics 1 4 SH

with PHY U162 Lab for PHY U161 1 SH

or PHY U151 Physics for Engineering 1 4 SH

with PHY U152 Lab for PHY U151 1 SH

PHY U165 Physics 2 4 SH

with PHY U166 Lab for PHY U165 1 SH

or PHY U155 Physics for Engineering 2 4 SH

with PHY U156 Lab for PHY U155 1 SH

MATHEMATICS MAJOR GRADE REQUIREMENT

A grade of C or higher is required in all mathematics courses at level 399 and lower.

EXPERIENTIAL EDUCATION REQUIREMENT

Complete one course in experiential education. Please see department for approved courses.

MATHEMATICS MAJOR CREDIT REQUIREMENT

Complete 54 semester hours in the major.

UPPER-DIVISION ELECTIVES

Complete three general electives at 300 level or above. None of these courses may be in physical education or dance.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

BS in Mathematics**COLLEGE OF ARTS AND SCIENCES BS CORE REQUIREMENTS FOR NATURAL SCIENCE MAJORS**

See page 48 for requirement list.

MATHEMATICS MAJOR REQUIREMENTS FOR BS**Problem Solving**

Complete the following course:

MTH U170 Math Discovery and Computers 4 SH

Calculus

Complete the following three courses with a grade of C or higher:

MTH U241 Calculus 1 for Science and Engineering 4 SH

MTH U242 Calculus 2 for Science and Engineering 4 SH

MTH U341 Calculus 3 for Science and Engineering 4 SH

Intermediate and Advanced Math

Complete the following five courses:

MTH U345 Ordinary Differential Equations 4 SH

MTH U371 Linear Algebra 4 SH

MTH U481 Probability and Statistics 4 SH

MTH U550 Real Analysis 4 SH

MTH U575 Group Theory 4 SH

Mathematics Electives

Complete five mathematics courses at 400 level or higher:

MTH U401 to MTH U799

Required Physics

Complete the following two courses and corresponding labs:

PHY U161 Physics 1 4 SH

with PHY U162 Lab for PHY U161 1 SH

or PHY U151 Physics for Engineering 1 4 SH

with PHY U152 Lab for PHY U151 1 SH

PHY U165 Physics 2 4 SH

with PHY U166 Lab for PHY U165 1 SH

or PHY U155 Physics for Engineering 2 4 SH

with PHY U156 Lab for PHY U155 1 SH

MATHEMATICS MAJOR GRADE REQUIREMENT

A grade of C or higher is required in all mathematics courses at level 399 and lower.

EXPERIENTIAL EDUCATION REQUIREMENT

Complete one course in experiential education. Please see department for approved courses.

MATHEMATICS MAJOR CREDIT REQUIREMENT

Complete 66 semester hours in the major.

UPPER-DIVISION ELECTIVES

Complete three general electives at 300 level or above. None of these courses may be in physical education or dance.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

BS in Computer Science and Mathematics

See page 205.

BS in Environmental Geology and Mathematics

See page 84.

BS in Geology and Mathematics

See page 84.

Minor in Mathematics**REQUIRED COURSES**

Complete the following two courses:

MTH U241 Calculus 1 for Science and Engineering 4 SH

MTH U242 Calculus 2 for Science and Engineering 4 SH

Biology majors may substitute the following two courses:

MTH U151 Calculus and Differential Equations 4 SH
for Biology 1

MTH U152 Calculus and Differential Equations 4 SH
for Biology 2

INTEGRATIVE COURSES

Complete two courses from the following list:

MTH U430 Number Theory 4 SH

MTH U433 Combinatorial Mathematics 4 SH

MTH U560 Geometry 4 SH

MTH U565 Topology 4 SH

MTH U571 Advanced Linear Algebra 4 SH

MTH U575 Group Theory 4 SH

MTH U576 Rings and Fields 4 SH

MATHEMATICS ELECTIVES

Complete two upper-division courses at the 300 level or above:

MTH U301 to MTH U699

GPA REQUIREMENT

2.000 GPA required in the minor

MODERN LANGUAGES

www.modlang.neu.edu

DENNIS R. COKELY, PhD

Associate Professor and Chair

MATTHEWS DISTINGUISHED UNIVERSITY PROFESSOR

Harlow L. Robinson, PhD

PROFESSORS

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Stephen A. Sadow, PhD

ASSOCIATE PROFESSORS

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Christina Gilmartin, PhD

Bonnie S. McSorley, PhD

Holbrook C. Robinson, PhD

John Spiegel, PhD

ASSISTANT PROFESSORS

Marisol Fernandez-Garcia, PhD

Rei Okamoto, PhD

Alan West-Duran, PhD

LECTURERS

Michele Cao-Danh, PhD

Catherine Dunand, MA

Paul LaPlante, MA

Luigia Gina Maiellaro, PhD

Sermin Muctehitzade, MA

Rita Schneider, MA

Claudia Sokol, MD

The study of modern languages can benefit all students, regardless of their majors. The multicultural world in which we live requires increased communication among varied and often divergent cultures. Learning a new language and its culture enables students to cross cultural barriers and to achieve a more cosmopolitan, open-minded, and sensitive view of the world.

The major seeks to ensure that students become as fluent as possible in a given language and introduces them to the relevant culture of that language. For this reason, the students take a number of language classes as well as literature, cinema, and general civilization courses. In addition, students are required to participate in study abroad and are urged to consider participating in international co-op, which prepares students to function on an everyday level in a foreign country.

The major in modern languages is currently available in Spanish and in French. It is also possible to minor in French or Spanish.

A major in a modern language can form the basis for careers in teaching at the elementary, secondary, or college

level; international business relations; high-tech fields; government service; journalism; library science; world affairs; travel; and community service, especially in Spanish-speaking areas. See pages 373–386 for course descriptions.

BA in French

COLLEGE OF ARTS AND SCIENCES

BA CORE REQUIREMENTS

See page 46 for requirement list.

FRENCH MAJOR REQUIREMENTS

Language Courses

Complete the following three courses:

LNF U301	French Conversation and Composition 1	4 SH
LNF U302	French Conversation and Composition 2	4 SH
LNF U501	Advanced French	4 SH

World Perspective

Complete the following two courses:

LNF U150	Introduction to French Culture	4 SH
LNM U250	International Perspectives	4 SH

Language and Linguistics

Complete the following course:

ENG U150	Introduction to Language and Linguistics	4 SH
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Literature and Culture

Complete the following five courses:

LNF U280	French Film and Culture	4 SH
LNF U550	Masterpieces of French Literature 1	4 SH
LNF U551	Masterpieces of French Literature 2	4 SH
LNF U650	French Poetry	4 SH
LNF U651	The Splendid Century	4 SH
or LNF U652	Age of Enlightenment	4 SH

French Seminar

Complete the following seminar:

LNF U670	Topics in French	4 SH
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Study Abroad/Experiential Education

Please see department for details and approved courses.

Capstone

Complete the following capstone:

LNF U700	Capstone Seminar	1 SH
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FRENCH MAJOR CREDIT REQUIREMENT

Complete 65 semester hours in the major, which includes 16 semester hours of study abroad.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

BA in Spanish

COLLEGE OF ARTS AND SCIENCES

BA CORE REQUIREMENTS

See page 46 for requirement list.

SPANISH MAJOR REQUIREMENTS

Language Requirements

Complete the following three courses:

LNS U301	Spanish Conversation and Composition 1	4 SH
LNS U302	Spanish Conversation and Composition 2	4 SH
LNS U501	Advanced Spanish	4 SH

Language and Linguistics

Complete the following course:

ENG U150	Introduction to Language and Linguistics	4 SH
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Culture

Complete the following four courses:

LNM U250	International Perspectives	4 SH
LNS U150	Spanish Culture	4 SH
LNS U160	Latin American Culture	4 SH
LNS U240	Latin American Film	4 SH

Literature

Complete the following four courses:

LNS U250	Cervantes and His Times	4 SH
LNS U550	Masterpieces of Spanish Literature: Twelfth–Seventeenth Century	4 SH
LNS U551	Masterpieces of Spanish Literature: Eighteenth–Twentieth Century	4 SH
LNS U650	Latin American Literature	4 SH

Spanish Seminar

Complete the following seminar:

LNS U670	Spanish Seminar	4 SH
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Study Abroad/Experiential Education

See department for details.

Capstone

Complete the following capstone:

LNS U700	Capstone Seminar	1 SH
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SPANISH MAJOR CREDIT REQUIREMENT

Complete 69 semester hours in the major, which includes 16 semester hours of study abroad.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required

Transition students are required to complete 132 total semester hours

Minimum 2.000 GPA required

BA in Cinema Studies and Modern Languages

See page 73.

Minor in French**REQUIRED COURSES**

Complete the following three courses:

LNF U150	Introduction to French Culture	4 SH
LNF U301	French Conversation and Composition 1	4 SH
LNF U302	French Conversation and Composition 2	4 SH

MASTERPIECES SERIES

Complete one of the following courses:

LNF U550	Masterpieces of French Literature 1	4 SH
or LNF U551	Masterpieces of French Literature 2	4 SH

ADVANCED ELECTIVES

Complete two courses from the following list. One of the two courses can be the remaining half of the Masterpieces Series:

LNF U550	Masterpieces of French Literature 1	4 SH
or LNF U551	Masterpieces of French Literature 2	4 SH
LNF U650	French Poetry	4 SH
LNF U651	The Splendid Century	4 SH
LNF U652	Age of Enlightenment	4 SH
LNF U653	Romantic Heritage	4 SH
LNF U670	Topics in French	4 SH

GPA REQUIREMENT

2.000 GPA required in the minor

Minor in Spanish**REQUIRED COURSES**

Complete the following three courses:

LNS U150	Spanish Culture	4 SH
or LNS U160	Latin American Culture	4 SH
LNS U301	Spanish Conversation and Composition 1	4 SH
LNS U302	Spanish Conversation and Composition 2	4 SH

MASTERPIECES SERIES

Complete one of the following courses:

LNS U550	Masterpieces of Spanish Literature: Twelfth–Seventeenth Century	4 SH
or LNS U551	Masterpieces of Spanish Literature: Eighteenth–Twentieth Century	4 SH

ADVANCED ELECTIVES

Complete two courses from the following list. One of the two courses can be the remaining half of the Masterpieces Series:

CIN U265	Spanish Civil War on Film	4 SH
LNS U170	Caribbean Literature and Culture	4 SH
LNS U240	Latin American Film	4 SH
LNS U250	Cervantes and His Times	4 SH
LNS U501	Advanced Spanish	4 SH
LNS U550	Masterpieces of Spanish Literature: Twelfth–Seventeenth Century	4 SH
or LNS U551	Masterpieces of Spanish Literature: Eighteenth–Twentieth Century	4 SH
LNS U650	Latin American Literature	4 SH
LNS U651	Spanish Golden Age	4 SH
LNS U670	Spanish Seminar	4 SH

GPA REQUIREMENT

2.000 GPA required in the minor

NORTHEASTERN UNIVERSITY

MULTIMEDIA STUDIES

www.mmstudies.neu.edu

ANTHONY P. DE RITIS, PhD
Associate Professor and Chair

PROFESSORS

Dennis H. Miller, DMA, *Music*
T. Neal Rantoul, MFA, *Visual Arts*

ASSOCIATE PROFESSOR

Edwin C. Andrews, MFA, *Visual Arts*

ASSOCIATE ACADEMIC SPECIALIST

Ann McDonald, MFA, *Visual Arts*

CLINICAL LECTURER AND TECHNICAL DIRECTOR

Cynthia Baron, MBA, *Visual Arts*

Multimedia is the delivery of rich content through digital media. Digital media broaden our exposure to new ideas and creative expressions. The media afford artists, composers, and designers new opportunities to experiment and collaborate with a wide variety of partners, such as medical researchers, mathematicians, and historians. Multimedia has made specialized computer literacy and broad-based knowledge necessities for the creative professional.

The multimedia studies major unites the worlds of art, music composition, design, and technology. It offers students in the Departments of Visual Arts and Music the opportunity to understand and experience the disparate disciplines that contribute to multimedia creation. It focuses equally on the issues that govern digital art and music and the creation of sound and image. The major exposes students to the historical significance of changing technology and media, while preparing students to integrate their creative work with the skills they will need in the rapidly growing field of multimedia production.

Multimedia development requires intensive team interaction and a broad knowledge base. It is too complex for one individual, no matter how creative, to master. Members of a team are better able to provide expertise in their unique disciplines when they are fully aware of their team members' contributions. In addition, this collaborative approach best allows all team members to understand the context in which their contributions are used. Students in the multimedia studies major have many opportunities to collaborate with their peers and work with students in all four multimedia concentrations.

Multimedia production requires expert knowledge in at least one discipline, which is why students can't major in multimedia alone. To be eligible to apply to the multimedia studies program, students must:

1. complete at least one year of course work in the Departments of Music or Visual Arts.