

Emeriti

Blake, Reed H. (1967) BS, MS, Brigham Young U., 1957, 1959; PhD, Utah State U., 1969.
 De Hoyos, Genevieve (1975) BA, Brigham Young U., 1954; MSW, Michigan State U., 1958; PhD, Indiana U., Bloomington, 1967.
 Gibbons, W. Eugene (1969) BS, MSW, DSW, U. of Utah, 1960, 1963, 1974.
 Pearson, Dale F. (1970) BS, MSW, U. of Utah, 1957, 1959; PhD, Brigham Young U., 1981.
 Shumway, E. Gene (1975) BS, Brigham Young U., 1951; MSW, U. of Utah, 1953; DSW, Case Western Reserve U., 1969.
 Wheeler, Barbara R. (1979) BS, MSW, DSW, U. of Utah, 1970, 1972, 1978.

Sociology

Vaughn R. A. Call, Chair
 2008C JFSB, (801) 422-4453

College of Family, Home, and Social Sciences Advisement Center
 151 SWKT, (801) 422-3541

Admission to Degree Program

All degree programs in the Department of Sociology are open enrollment. However, special limitations apply for teaching majors.

The Discipline

Sociology explores social life and the social causes and consequences of human behavior. Sociologists study people, their organizations, and their cultures. The organizations include families, tribes, communities, and societies, along with a variety of social, religious, political, and business institutions. The study of culture examines language, beliefs, and knowledge in societies.

Career Opportunities

Sociologists may be involved in the scientific study of deviance, family, minority groups, communities, or any of a variety of other subject areas. Some sociologists conduct surveys or social experiments. Growing numbers apply sociological knowledge in corrections and penology, education, public relations in industry, and regional and community planning. Some study urban or rural settings, and cross-national research is increasing.

One of the primary subject areas in the social sciences, sociology is a broad liberal arts major, rather than a narrow occupational specialty. Students who major in sociology are not trained for a single occupation, but instead they are qualified for a wide range of jobs and graduate programs. Job opportunities are greater for students with skills in research methods and social data analysis.

Graduation Requirements

To receive a BYU bachelor's degree a student must complete, in addition to all requirements for a specific major, the following university requirements:

- The university core, consisting of requirements in general and religious education (See the University Core section of this catalog for details. For a complete listing of courses that meet university core requirements, see the current class schedule.)
- A minimum of 30 credit hours in residence
- A minimum of 120 credit hours
- A cumulative GPA of at least 2.0

Undergraduate Programs and Degrees

BS Sociology
 Emphasis (optional):
 Research and Analysis
 Minors Sociology (General)
 Sociology Teaching

Students should see their college advisement center for help or information concerning the undergraduate programs.

Graduate Programs and Degrees

MS Sociology
 PhD Sociology

For more information see the BYU 2006–2007 Graduate Catalog.

BS Sociology (39 hours*)

Major Requirements

1. At least 9 hours of sociology major courses must be taken in residence at BYU.
2. Complete the following core courses:
Soc 111, 300, 310, 311, 350.
3. Complete one course from the following:
Soc 306.
Stat 221.
4. Complete three courses from the following:
Soc 420, 421, 422, 424, 426, 429, 450, 460, 470, 481, 490R.
5. Complete an additional 12 hours of sociology courses.

*Hours include courses that may fulfill university core requirements.

BS Sociology: Research and Analysis Emphasis (41 hours*)

We are in a high-tech era. Information gathering, data analysis, and distribution of information are prerequisites for any informed person, group, or corporate entity. This emphasis gives specific hands-on experience with professional researchers in each of these phases of information utilization.

Major Requirements

1. At least 9 hours of sociology major courses must be taken in residence at BYU.
2. Complete the following core courses:
Soc 111, 300, 310, 311, 350.
3. Complete one course from the following:
Soc 306.
Stat 221.
4. Complete three courses from the following:
Soc 420, 421, 422, 424, 426, 429, 450, 460, 470, 481, 490R.
5. Complete the following:
Soc 303R, 399R (3 hours required).
6. Complete one course from the following:
Soc 405, 406.
7. Complete one course from the following:
Soc 404, 408.
8. Complete one additional course within sociology.

*Hours include courses that may fulfill university core requirements.

Minor Sociology (General) (15 hours*)

Minor Requirements

1. Complete the following:
Soc 111.
2. Complete 12 hours from any sociology courses not already completed.

*Hours include courses that may fulfill university core requirements.

Minor Sociology Teaching (21 hours*)

Minor Requirements

1. Complete the following:
Soc 111, 112, 326.
2. Complete one course from the following:
Soc 350, 420.
3. Complete 9 hours from any sociology courses not already completed.

Recommended Courses

Soc 323, 367, 380, 383, 389, 422.

Note: The sociology teaching minor is intended for students who are pursuing secondary education licensure through the David O. McKay School of Education.

*Hours include courses that may fulfill university core requirements.

Sociology (Soc)

Undergraduate Courses

111. Introductory Sociology. (3:3:0) Honors also.

Social group influence; social interaction, processes, organization, and change; family, religion, government, population, culture, race relations.

112. Current Social Problems. (3:3:0) Honors also.

Individual deviance (violence, insanity, drugs, sex, crime, etc.) and social disorganization (poverty, race and sex discrimination, divorce, overpopulation, etc.). Conditions, causes, solutions.

113. Multicultural America. (3:3:0)

Diverse cultural heritages in the United States. Cultures studied scientifically will include African American, Hispanic, Asian American, and Native American.

211. Family Interaction. (3:3:0)

The family system through life cycle stages; intrafamily processes; stresses and challenges; individual and family well-being; family interaction with societal systems.

222. (Soc-WS) Introduction to Women's Studies. (3:3:0)

Survey of scholarship about women's lives; new historical, sociological, psychological, and literary approaches that inform our understanding of women's experience.

300. Methods of Research in Sociology. (3:3:0) Prerequisite: Soc 111 or equivalent or instructor's consent.

Tools of social research; survey, experimentation, content analysis, secondary analysis, qualitative research, evaluation research, data processing and analysis, and report writing.

303R. Introduction to Social Science and Statistical Packages. (2:2:2 ea.)

Analytical work with social science variables using computer packages such as SAS or SPSSX (see section in current class schedule for designated statistical package). Lab.

306. Applied Social Statistics. (3:3:0) Independent Study also.

Introductory descriptive and inferential statistics; graphing, central tendency, variation, hypothesis testing and parameter estimation, measures of association, correlation, and regression.

310. Development of Sociological Theory. (3:3:0) Prerequisite: Soc 111, 300, 306.

Basic ideas and arguments forming sociological inquiry, including philosophical foundations, philosophy of sociological science, and development of classical theory.

311. Contemporary Sociological Theory. (3:3:0) Prerequisite: Soc 310.

Ideas, critiques, and arguments that form contemporary sociological inquiry, including theories of modernity, Neo-Marxism, and social order.

318. (Soc-MFHD 333) Adolescent Development in the Family and Other Social Contexts. (3:3:0)

Examining developmental and social contexts of adolescents, emphasizing the importance of the family. Other contexts include peers, religion, community, schools, and cross-cultural issues.

323. Racial and Minority-Group Relations. (3:3:0) Prerequisite: Soc 111.

Social psychological and social structural analysis of racial and ethnic relations; prejudice, discrimination, responses, protests, current issues.

325. Introduction to the Sociology of Religion. (3:3:0) Prerequisite: Soc 111.

Origin, growth, and organizational development of religious groups; church activity, conversion, secularization, religious change.

326. Sociology of Education. (3:3:0)

Social origins of goals and curricula; theories of change and control; the nature of achievement in education.

327. Sociology of the LDS Church and Its People. (3:3:0)

The LDS Church from a social science perspective, including the Church as a new religious movement; LDS culture; the institutionalization process.

328. Sociology of Sport. (3:3:0)

Analysis of the sociological aspects of sport and their relationship to politics, economics, stratification, education, and family. Focus on concepts, theory, and related research.

329. Medical Sociology. (3:3:0) Prerequisite: Soc 111 or Psych 111.

Social epidemiology, the sick role, sociocultural definitions of and responses to illness, and the organization of medical-health delivery systems.

335. Social Change and Modernization in Latin America. (3:3:0)

Contemporary changes in the social institutions and cultures as related to the modernization process.

345. World Populations. (3:3:0) Prerequisite: Soc 111.

Fertility, mortality, and migration patterns of world populations as they relate to current social, economic, political, and religious issues.

350. (Soc-Psych) Introduction to Social Psychology. (3:3:0)

Conformity and obedience; socialization, norms, roles; attitudes, leadership, group processes.

351. Fundamentals of Self-Image and Self-Esteem. (3:3:0) Prerequisite: Soc 111.

Social bases and measurement of self-concept. Building positive self-definitions; applications in family, school, and work settings; low self-esteem and deviance.

352. (Soc-Psych) Applied Social Psychology. (3:3:0) Prerequisite: Soc-Psych 350.

Applying social psychological theory, research, and methods to such domains as law, business, education, the media, mental health, and physical health.

358. Effective Social Relations. (3:2:2) Prerequisite: Soc 111.

Development and practice of skills in social relations, including giving and receiving feedback, conflict resolution, negotiation and bargaining, and leadership choices.

365. Sociology of Aging. (3:3:0)

Demographic and social factors related to aging: agencies, serving older citizens, and role of community in solving problems of aged. Required for students in gerontology minor and/or certificate programs.

367. Sociology of Gender. (3:3:0) Prerequisite: Soc 111.

Gender in social institutions: family, social hierarchies, economics, education, organizations, religion, and science.

370. The Sociology of Urban Life. (3:3:0) Prerequisite: Soc 111.

Norms, social controls, and social processes in urban areas in both historical and contemporary perspectives.

380. Deviant Behavior and Social Control. (3:3:0) Prerequisite: Soc 111.

Theory and research related to deviance. Specific topics include psychosis, addiction, homosexuality, violence, and rape, among others.

383. Juvenile Delinquency. (3:3:0) Prerequisite: Soc 111.

Lawlessness of children and adolescents: causation, treatment, prevention, and outlook.

389. Social Aspects of Mental Health. (3:3:0) Prerequisite: Soc 111.

Personality disorders and emotional maladjustments that originate in group life; social causation, treatment, and prevention of mental illness.

390R. Special Topics in Contemporary Sociology. (1–3:3:0 ea.)

Prerequisite: instructor's consent.

Course content varies from year to year.

399R. Academic Internship. (1–9:0:0 ea.)

Individualized work or volunteer experience in either a research setting or some kind of field placement with an organization.

404. Qualitative Research Methods. (3:3:0) Prerequisite: Soc 300.

Purposes, methods, and limitations of qualitative research. Includes participant observation and hermeneutics skills.

405. Multiple Regression Analysis and Social Science Computing. (3:3:0) Prerequisite: Soc 306 or instructor's consent.

Data analysis and computer use in sociology; least squares and logistic regression techniques; SPSS and its use in conducting data analysis. Research report required.

406. Intermediate Applied Social Statistics. (3:3:0) Prerequisite: Soc 306, 405.

Introduction to structural equation models, analysis of variance and covariance, and factor analysis.

408. Survey Research and Social Measurement. (3:3:0) Prerequisite: Soc 300.

Survey research design, measurement, and techniques in the behavioral sciences; research and sampling designs and measurement techniques.

420. Understanding Modern Societies. (3:3:0) Prerequisite: Soc 111, 300, 306, 310, 311.

Comparative-historical theory and research on the political, economic, social, and cultural processes in the formation, social organization, and future prospects of modern societies.

421. Complex Organizations. (3:3:0) Prerequisite: Soc 111, 300, 306, 310, 311.

Complex formal organization perspectives. Bureaucracy, management, structure, and change in private and public sectors. Formation, growth, and partitioning of organizational fields. Writing intensive.

422. Social Stratification. (3:3:0) Prerequisite: Soc 111, 300, 306, 310, 311.

Distributions of money, prestige, and power as they relate to life chances, lifestyle, other social institutions, and social justice.

424. Political Sociology. (3:3:0) Prerequisite: Soc 111, 300, 306, 310, 311.

Analysis of power and decision-making, political institutions, grass root politics, stratification, and political activity, social movements and revolutions, science/religion and politics. Writing intensive.

426. Sociology of Work and Occupations. (3:3:0) Prerequisite: Soc 111, 300, 306, 310, 311.

Distinction between work and occupation, changes in the nature of work and labor force, impacts of work, mobility in work life, and occupational attainment.

429. Theory of Social Change and Modernization. (3:3:0)

Prerequisite: Soc 111, 300, 306, 310, 311.

Social change in contemporary society from diverse theoretical points of view.

445. Labor Markets in Developing Countries. (3:3:0) Prerequisite: Soc 306.

Individual, national, and global forces reshaping labor markets and employment opportunities in developing countries.

450. The Family and Social Change. (3:3:0) Prerequisite: Soc 111, 300, 306, 310, 311.

Changing patterns of family-related behaviors, functions, and forms. Demographic, economic, and ideological forces shaping the family.

460. Marriage and Family Interaction. (3:3:0) Prerequisite: Soc 111, 300, 306, 310, 311.

Advanced appraisal of courtship, marriage relationships, and family interaction. Primarily for majors in sociology, marriage, family, and human development, and related fields.

470. Sociology of Law. (3:3:0) Prerequisite: Soc 111, 300, 306, 310, 311.

Law as an institution; influence of law on behavior; relationship between law and institutions; role of law in social change.

481. Crime, Justice, and Corrections. (3:3:0) Prerequisite: Soc 111, 300, 306, 310, 311.

Nature and extent of criminal behavior; current theory and research related to causes of crime and treatment of criminals.

490R. Special Topics in Sociology. (1–3:0:0 ea.) Prerequisite: Soc 111, 300, 306, 310, 311.

Course content varies from year to year.

495R. Directed Reading in Sociology. (1–6:0:0 ea.) Prerequisite: Soc 111, 300, 306, 310, 311.

Individualized reading program supervised by faculty member. Student selects reading topic and completes systematic in-depth reading of related literature.

497R. Directed Research in Sociology. (1–6:0:0 ea.) Prerequisite: Soc 111, 300, 306, 310, 311.

Individualized research program supervised by faculty member. Student selects topic and completes a research project.

500-Level Graduate Courses (available to advanced undergraduates)

524. Advanced Political Sociology. (3:3:0)

Social basis of political behavior. Modern theories and research concerning use of power and decision making.

525. Sociology of Religion. (3:3:0) Prerequisite: Soc 111, 325, or instructor's consent.

Influences of social factors in the development of various religious systems.

527. Sociology of the LDS Church and Its People. (3:3:0)

An advanced analysis of the LDS Church from a social science perspective, including the Church as a new religious movement; LDS culture; the institutionalization process.

528. Sociology of Rural Communities. (3:3:0) Prerequisite: Soc 310, 311, 370, or instructor's consent.

Review and critique of major theoretical and methodological approaches to the study of community, with a focus on rural communities.

530. Sociology of International Development. (3:3:0)

Major theoretical paradigms of development with strategies and practical application in the international setting.

550. (Soc-MFHD) Contemporary Family Theories. (3:3:0)

Prerequisite: MFHD 451, Soc 310, 311; or equivalents.

Introduction to basic micro, macro, and processual approaches to the study of the family; social and political theory on the family; and philosophical issues and assumptions underlying family theory, research, and practice.

561. The Family Institution. (3:3:0)

The family in different societies; problems created by various family systems.

565. The Individual and Family in Later Years. (3:3:0)

Developmental aspects of aging, focusing on the biophysical, cognitive, social, affective, and pathological dimensions in people aged 50 and over.

590R. Special Topics in Sociology. (1–3:3:0 ea.) Prerequisite: instructor's consent.

Course content varies from year to year.

595R. Directed Readings. (1–3:0:6 ea.)

Individualized reading program supervised by faculty member. Pass/Fail only.

598R. Pro-Seminar. (1:1:0 ea.)

Current developments in sociology including research, proposals, professional meetings, teaching, and finding a job.

Graduate Courses

For 600- and 700-level courses, see the BYU 2006–2007 Graduate Catalog.

Sociology Faculty

Professors

Bahr, Howard M. (1973) BA, Brigham Young U., 1962; MS, PhD, U. of Texas, Austin, 1964, 1965.

Bahr, Stephen J. (1973) BS, MS, Brigham Young U., 1968, 1969; PhD, Washington State U., 1972.

Brown, Ralph B. (1998) BS, MS, Utah State U., 1986; PhD, U. of Missouri, Columbia, 1992.

Call, Vaughn R. A. (1993) BS, MS, Brigham Young U., 1970, 1974; PhD, Washington State U., 1977.

Chadwick, Bruce A. (1972) BA, MA, PhD, Washington U., 1964, 1965, 1967.

Cornwall, Marie (1986) BA, U. of Utah, 1971; MS, Brigham Young U., 1977; PhD, U. of Minnesota, 1985.

England, J. Lynn (1970) BA, MA, U. of Utah, 1965, 1967; PhD, U. of Pittsburgh, 1971.

Heaton, Tim B. (1980) BS, MS, Brigham Young U., 1974, 1975; PhD, U. of Wisconsin, Madison, 1979.

Hoffmann, John P. (1999) BS, James Madison U., 1984; MS, American U., 1985; PhD, State U. of New York, Albany, 1991; MPh, Emory U., 1994.

Jacobson, Cardell K. (1981) BS, Brigham Young U., 1966; MA, PhD, U. of North Carolina, Chapel Hill, 1969, 1971.

Associate Professors

Forste, Renata T. (1995) BS, MS, Brigham Young U., 1984, 1986; PhD, U. of Chicago, 1992.

Johnson, Richard E. (1976) BS, Brigham Young U., 1971; MA, PhD, U. of Washington, 1972, 1976.

Knapp, Stan J. (1995) BA, MS, Brigham Young U., 1987, 1989; PhD, Florida State U., 1996.

Ward, Carol (1990) BA, MA, North Texas State U., 1973, 1976; PhD, U. of Chicago, 1992.

Assistant Professors

Burraston, Bert O. (2004) BS, MS, Brigham Young U., 1991, 1994; PhD, U. of Oregon, 2003.

Dufur, Mikaela J. (2000) BA, Brigham Young U., 1994; MA, PhD, Ohio State U., 1996, 2000.

Erickson, Lance D. (2005) BS, MS, Brigham Young U., 1999, 2001; PhD, U. of North Carolina, Chapel Hill, 2005.

Goodsell, Todd (2005) BS, MS, Brigham Young U., 1994, 1998; PhD, U. of Michigan, 2004.

King, Brayden G. (2005) BS, MS, Brigham Young U., 1999, 2001; PhD, U. of Arizona, 2005.
 Rowley, Kristie J. (2005) BS, MS, Brigham Young U., 2000, 2002; PhD, Vanderbilt U., 2005.

Associate Lecturer

Holland, Kimberlee B. (2002) BA, MA, Brigham Young U., 1995, 1997; PhD, Purdue U., 2002.

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Duke, James T. (1963) BA, MA, U. of Utah, 1957, 1958; PhD, U. of California, Los Angeles, 1963.
 Johnson, Barry L. (1965) BS, MS, Brigham Young U., 1963, 1965; PhD, U. of North Carolina, 1977.
 Kunz, Phillip R. (1968) BS, MS, Brigham Young U., 1961, 1962; PhD, U. of Michigan, 1967.
 Rollins, Boyd C. (1963) BS, Utah State U., 1953; MS, Brigham Young U., 1958; PhD, Cornell U., 1961.
 Seggar, John F. (1967) BS, Brigham Young U., 1962; MA, PhD, U. of Kentucky, 1964, 1968.
 Smith, Wilford E. (1947) BA, U. of Utah, 1943; MA, Brigham Young U., 1948; PhD, U. of Washington, 1952.
 Thomas, Darwin L. (1972) BA, MA, Brigham Young U., 1962, 1964; PhD, U. of Minnesota, St. Paul, 1968.

Spanish and Portuguese

Alvin F. Sherman, Jr., Chair
 3190 JFSB, (801) 422-2837

College of Humanities Advisement Center
 1175 JFSB, (801) 422-4789

Admission to Degree Program

All degree programs in the Department of Spanish and Portuguese are open enrollment. However, special limitations apply for teaching and translation majors.

The Discipline

The Spanish and Portuguese romance languages and literatures dominate the Iberian Peninsula, major parts of Africa, and the southern portion of the new world from Mexico to the Magellan Straits. These languages, spoken by over 450 million people in twenty-one countries, provide a wide spectrum of cultural, linguistic, and literary variety. Spanish and Portuguese represent vibrant literature that stands at the forefront of twentieth-century excellence and innovation, a linguist's paradise of dialects, rapid change, and development.

Such breadth—plus some 35 million speakers within the borders of the United States itself—gives multiple opportunities for developing skill in the spoken language, as well as in listening, reading, writing, and translation. Studying the Iberian roots of this large and important part of the population and learning about the people's perception of life also brings greater understanding of their values and their struggle for identity. A Spanish or Portuguese major makes for a demanding, intriguing, and pleasurable experience.

Career Opportunities

The field of teaching has always provided good employment opportunities for Spanish majors. In addition, opportunities for both Spanish and Portuguese have been found in government service (translation, U.S. State Department, CIA, FBI, Border Patrol, Peace Corps, NSA, USIA), business, social work, airlines, banking, etc. Many majors go on to professional schools (law, medicine, dentistry, business, etc.), where a liberal arts background is advised. For employment in fields other than teaching, a strong minor or a second major in the employment area is strongly encouraged. Teaching majors are required to complete a teaching minor.

General Information

The Department of Spanish and Portuguese strongly recommends that StDev 317, a 1-credit-hour course, be taken at the end of the sophomore year or the beginning of the junior year. Because liberal arts degrees provide preparation in a variety of useful fields rather than a single career track, this course is recommended to help liberal arts students focus on specific educational and occupational goals and to identify the career options or educational opportunities available to them. The course will introduce them to the resources needed for accessing information about graduate schools, internships, careers, and career development. Students will learn basic employment strategies, including the steps necessary for obtaining employment related to their own specialty.

Graduation Requirements

To receive a BYU bachelor's degree a student must complete, in addition to all requirements for a specific major, the following university requirements:

- The university core, consisting of requirements in general and religious education (See the University Core section of this catalog for details. For a complete listing of courses that meet university core requirements, see the current class schedule.)

Spanish and Portuguese

- A minimum of 30 credit hours in residence
- A minimum of 120 credit hours
- A cumulative GPA of at least 2.0

Undergraduate Programs and Degrees

BA	Portuguese
BA	Spanish
BA	Spanish Teaching
BA	Spanish Translation
Minors	Portuguese
	Spanish
	Spanish Teaching

Students should see their college advisement center for help or information concerning the undergraduate programs.

Graduate Programs and Degrees

MA	Portuguese
MA	Spanish
MA	Language Acquisition (Spanish and Portuguese)

For more information see the BYU 2006–2007 Graduate Catalog.

General Information

Spanish Resource Center

164 University Parkway Center, (801) 378-8107
E-mail: spanish_resource@email.byu.edu

The Ministry of Education and Culture of Spain, in connection with the Department of Spanish and Portuguese and the Center for the Improvement of Teacher Education and Schooling (CITES), operates the Spanish Resource Center (Centro de Recursos). The purpose of the center is to provide an ample supply of books, computer programs, and didactic materials, both printed and audiovisual, related to the teaching of Spanish language and literature. Researchers, professors, students, educational institutions, coordinators, administrators, and in general all those who may be interested in the knowledge and promotion of Spanish are welcome. To increase the prestige of the Spanish language academically as well as socially, the Spanish Resource Center

- sponsors workshops, seminars, and work groups on topics related to teaching Spanish and researching linguistics and literature;
- organizes conferences, film series, recitals, and cultural activities in general that relate to the Spanish language and culture; and
- promotes and participates in all initiatives that are deemed appropriate and that favor acquisition and use of the Spanish language by students at different educational levels.

Foreign Language Housing

Foreign Language Housing provides live-in opportunities for students in Spanish and Portuguese. A twenty-four-hour-a-day Spanish or Portuguese rule assures participants intensive use of the language, under the direction of native speakers. See the department secretary at 3190 JFSB for information.

Language Skills Development

A program to improve and monitor all language skills at each level of course work has been developed by the department, and a final oral proficiency examination is required of all graduating seniors. Writing skills in Spanish or Portuguese courses will advance from writing exercises and short messages in 100-level courses to original short themes in 200-level classes. Papers in the language at the 300-level and more extensive research and vocabulary and full control of structures at the 400-level will complete the program.

Minor, Double Major, or Approved Supporting Course Work Required for Spanish or Portuguese Majors

All Spanish and Portuguese majors are required to complete either a minor (from any department in the university), 15 hours of approved supporting course work, or a double major.

Nonteaching majors who do not wish to complete a formal minor may substitute at least 15 hours of courses from among the following related fields: a second modern foreign language (upper-division courses only), Latin, Greek, English (beyond the GE requirement), linguistics, classical civilization, Latin American history or geography, Spanish/Portuguese history or geography, humanities, archaeology of Spain/Portugal or Latin America, comparative literature, or other areas approved by the department chair.

Nonteaching and nontranslation majors also may meet their minor requirement by completing 15 additional hours consisting of elective Spanish/Portuguese courses or (strongly recommended) a combination of Spanish/Portuguese electives and interdisciplinary work. In all cases these courses must form a coherent program and *must be preapproved* by the department chair.

A double major is an acceptable alternative to a minor.

Foreign Residency

The department strongly recommends that all majors participate in an extended (at least two continuous months) and intensive language and culture experience in a Spanish- or Portuguese-speaking country or area.

A student should complete this requirement by:

1. Residency abroad (may include a Spanish or Portuguese LDS mission, attendance at a foreign university, an advanced exchange program, or similar intensive foreign residence).
2. Participating in BYU Study Abroad Programs in Spain, Portugal, or Latin America.
3. Participating in individual or group-arranged internship programs abroad as approved by the department.

Students unable to participate in one of these programs must spend at least one year (two semesters) in Foreign Language Housing, pledging to use only Spanish or Portuguese within the residence. Prerequisite to this experience is Span/Port 201 or its equivalent; any exceptions must be approved by the department. For further information contact the department secretary or the Foreign Language Housing Office, 3086 JFSB, (801) 422-7797.

Portuguese

BA Portuguese (49–68 hours minimum*)

Major Requirements

1. At least 15 hours of upper-division major credit must be taken in residence at BYU.
2. Meet the foreign residency requirement.
3. Complete a minor (approximately 16–21 hours), second major (approximately 30–60 hours), or supporting course work (15 hours).

Note: Latin American Studies or Spanish Studies minors: Port 321, 339, 345 or 355, and 441 or 451 meet requirements for both the Portuguese major and the area studies minor. Only one of these courses may be double-counted (applied to both the major and the minor). Students wishing to complete a Portuguese major and one of these area studies minors must take an additional 6–9 hours chosen from the approved electives for either major or minor. Consult the department and the advisement center for clarification of the choices available to you.

4. Complete the following prerequisite courses:
Port 101, 102, 201, 211R.
And complete one course from the following:
Port 202, 315.

Note 1: Students with foreign residence experience should take Port 315.

Note 2: Prerequisite courses may be waived for those having sufficient proficiency with the language.

5. Complete the following:
Port 321, 322, 339, 441, 451.
6. Complete one course from the following:
Port 345, 355.
7. Complete 12 hours from the following:
Port 326, 329, 345, 355, 439R, 442, 449R, 452, 453, 459R,
461R, 462R, 480R, 490, 520, 521, 522, 529R.

*Hours include courses that may fulfill university core requirements.

Minor Portuguese (18–35 hours)

Minor Requirements

1. Complete the following prerequisite courses:
Port 101, 102, 201, 211R.
And complete one course from the following:
Port 202, 315.

Note 1: Students with foreign residence experience should take Port 315.
Note 2: Prerequisite courses may be waived for those having sufficient proficiency with the language.
2. Complete the following:
Port 321, 339.
3. Complete one course from the following:
Port 345, 355.
4. Complete one course from the following:
Port 441, 451.
5. Complete 6 additional upper-division hours from the courses outlined for the major. Port 315 credit may be applied to the Portuguese minor but is not required.

Portuguese (Port)

Undergraduate Courses

- 101, 102. First-Year Portuguese.** (4:5:1 ea.)
Pronunciation, conversation, reading, and fundamentals of grammar. Specific attention to Portuguese as the language of Brazil. Native speakers of Portuguese must enroll in Port 321.
- 199R. Academic Internship.** (1–3:0:0 ea.) Prerequisite: department chair's and cooperative education coordinator's consent.
On-the-job experience evaluated by supervisor and posted on student's transcript.
- 201. Third-Semester Portuguese.** (4:5:0) Prerequisite: Port 102 or three units of high school Portuguese.
Second-year grammar, reading, writing, and conversation. Native speakers of Portuguese must take Port 321.
- 202. Fourth-Semester Portuguese: Reading and Comprehension.** (4:5:0) Prerequisite: Port 201.
Fourth-semester class introducing grammar and culture through study of literature. Not for returned missionaries. Culmination of GE Mathematics/Foreign Language requirement. Native speakers of Portuguese must take Port 321.
- 211R. First-Semester Conversation.** (2:2:1 ea.) Prerequisite: Port 102 or equivalent. Recommended: concurrent enrollment in Port 201.
- 212. Second-Semester Conversation.** (2:2:1) Prerequisite: Port 211 or equivalent.
- 311R. Third-Year Conversation.** (2:2:1 ea.) Prerequisite: Port 211 or equivalent.
Tools course to help students improve oral proficiency. Will not count for major or minor.

315. Intermediate Portuguese Grammar, Reading, and Culture.

 (3:3:0)

Introduction of culture, literature, and grammatical concerns through reading short stories, novels, and drama in Portuguese. First class for returned Portuguese-speaking missionaries. Fulfills GE Foreign Language requirement. Will count for minor but not for major. Native speakers should take Port 321.

321, 322. Third-Year Portuguese Grammar and Composition. (3:3:0 ea.) Prerequisite: Port 202 or 315, plus 16 hours of Portuguese or the equivalent.

326. Portuguese Phonetics and Pronunciation. (3:3:3)
Prerequisite: Port 321 or equivalent.

Underlying concepts of Portuguese speech production and applications to pronunciation.

329. Survey of Luso-Brazilian Linguistics. (3:3:0) Prerequisite: Port 321 or equivalent.

Introduction to linguistics of Portuguese: phonetics, phonology, morphology, syntax, semantics, history of the Portuguese language, philology, dialectology, sociolinguistics, and psycholinguistics.

339. Introduction to Portuguese and Brazilian Literature. (3:3:0)
Prerequisite: Port 321 or equivalent.

Readings in modern literature; formal literary analysis.

345. Portuguese Civilization. (3:3:0) Prerequisite: Port 321 or equivalent.

Culture, history, art, music, and traditions of Portugal.

355. Brazilian Civilization. (3:3:0) Prerequisite: Port 321 or equivalent.

Culture, history, art, music, and traditions of Brazil.

395R. Contemporary Culture. (1–3:0:0 ea.) For Study Abroad programs only. Prerequisite: Port 201 or equivalent.

Contemporary Portuguese or Brazilian culture: the people and their customs and institutions.

399R. Academic Internship: Portuguese Language Field Experience. (1–6:0:0 ea.) Prerequisite: program coordinator's consent.

On-the-job experience.

439R. Luso-Brazilian Theatre Production. (3:3:0 ea.)

Theory and practice of dramatic performance. Includes participation in play to be performed during semester.

Note: No more than 3 hours of 439R credit may count toward any degree.

441. Survey of Portuguese Literature. (3:3:0) Prerequisite: Port 339 or equivalent.

Literary periods, genres, and great writers of Portugal.

442. Camões. (3:3:0) Prerequisite: Port 441 or equivalent.

449R. Special Topics in Portuguese Literature. (3:3:0 ea.)
Prerequisite: Port 441, 451, or equivalent.

Specific topics in Portuguese (Peninsular) literature. Course content will vary each semester to offer optimum exposure to all areas of Portuguese literature.

451. Survey of Brazilian Literature. (3:3:0) Prerequisite: Port 339 or equivalent.

Literary periods, genres, and great writers of Brazil.

452. Machado de Assis. (3:3:0) Prerequisite: Port 451 or equivalent.

453. Twentieth-Century Brazilian Literature. (3:3:0) Prerequisite: Port 441, 451, or equivalent.

459R. Special Topics in Brazilian Literature. (3:3:0 ea.)
Prerequisite: Port 441, 451, or equivalent.

Specific topics in Portuguese (Brazilian) literature. Course content will vary each semester to offer optimum exposure to all areas of Brazilian literature.

Spanish and Portuguese

461R. African Literature in Portuguese. (3:3:0) Prerequisite: Port 339 or equivalent.

Modern authors from the five African nations whose official language is Portuguese: Angola, Cabo Verde, Guiné Bissau, Mozambique, and the two-island republic São Tomé and Príncipe. Authors include José Craveirinha, Mia Couto, Noémia de Sousa, José Tenreiro, Castro Soromenho, Luandino Vieira, Pepetala, and Baltasar Lopes, among others.

462R. Literature of the Lusophone World. (3:3:0) Prerequisite: Port 339 or equivalent.

Authors from the eight nations whose official language is Portuguese, plus former colonies and present regions of important Portuguese influence. These include Luso-American and Azorean writers, as well as authors from East Timor (formerly Indonesia), Goa (India), and Macau (China).

480R. Directed Research in Portuguese. (1–3:Arr.:0 ea.)

Prerequisite: written proposal subject to department approval. Independent Study only.

Under faculty member's direction, designing and conducting research project covering material not normally presented in regular course work. Research paper required. Total Port 480R credit toward bachelor's degree not to exceed 3 hours.

490. Senior Seminar in Portuguese. (1–3:0:0) Prerequisite: senior standing.

Bibliography, research, and writing of senior thesis. Recommended for students planning graduate studies in Portuguese.

491. Senior Proficiency Evaluation. (0:1:0)

Tool course to meet oral proficiency requirement for all majors. No major or minor credit.

500-Level Graduate Courses (available to advanced undergraduates)

520. Advanced Portuguese Grammar. (3:3:0) Prerequisite: Port 321 or equivalent.

Applying contemporary grammatical concepts to problems in Portuguese grammar.

521. Romance Philology. (3:3:0) Prerequisite: Port 321 or equivalent.

Comparative study of evolution of Latin into modern romance languages.

522. History of the Portuguese Language. (3:3:0) Prerequisite: Port 321 or equivalent.

Linguistic sources that contributed to formation of Portuguese.

529R. Special Topics in Portuguese Linguistics. (3:3:0 ea.)

Prerequisite: Port 321 or equivalent.

Topics from semantics to dialectology to sociolinguistics.

599R. Academic Internship: Portuguese Internship. (1–3:0:0 ea.)

For supervised internship credit on BYU Study Abroad programs only. Prerequisite: Port 321 or equivalent; instructor's consent.

Graduate Courses

For 600- and 700-level courses, see the BYU 2006–2007 Graduate Catalog.

Spanish

BA Spanish (51–85 hours minimum*)

Major Requirements

1. At least 18 hours of upper-division major credit must be taken in residence at BYU.
2. Meet the foreign language residency requirement.

3. Complete a minor (approximately 16–21 hours), second major (approximately 30–60 hours), or supporting course work (15 hours).

Note: Latin American Studies or Spanish Studies minors: Span 321, 339, 345 or 355, and 441 or 451 meet requirements for both the Spanish major and the area studies minor. Only one of these courses may be double-counted (applied to both the major and the minor). Students wishing to complete a Spanish major and one of these area studies minors must take an additional 6–9 hours chosen from the approved electives for either major or minor. Consult the department and the advisement center for clarification of the choices available to you.

4. Complete the following prerequisite courses:
Span 101, 102, 105, 106, 111R, 112R, 205, 206.

Note 1: Students with foreign residence experience usually begin with Span 321.

Note 2: Prerequisite courses may be waived for those having sufficient proficiency with the language.

5. Complete the following:
Span 321, 322, 339, 441, 451.
6. Complete one course from the following:
Span 345, 355.
7. Complete 18 hours from the following:
Complete at least one linguistics course from the following:
Span 326, 329, 421, 423, 425, 429R, 520, 521, 522, 529R.
Complete at least one literature course from the following:
Span 440, 443R, 444, 446R, 448R, 449R, 450R, 454R, 455R, 456R, 458R, 459R, 461.
Complete four additional courses (12 hours) from the linguistics or literature electives above or from the following (Span 345 and 355 will not double-count):
Span 345, 355, 365, 395R, 438, 439R, 480R, 490.
8. Complete the following:
Span 491.

Note: The Senior Proficiency Evaluation is taken in connection with Span 491. It is expected that Spanish majors will pass with a rating of *advanced—low* or higher.

*Hours include courses that may fulfill university core requirements.

BA Spanish Teaching (75–108 hours minimum*, including licensure hours)

This is a limited-enrollment program requiring departmental admissions approval. Please see the college advisement center for information regarding requirements for admission to this major.

Major Requirements

1. At least 18 hours of upper-division major credit must be completed in residence at BYU.
2. Meet the foreign language residency requirement.
3. Complete an approved teaching minor (approximately 16–21 hours).
4. Complete the following prerequisite courses:
Span 101, 102, 105, 106, 111R, 112R, 205, 206.

Note 1: Students with foreign residence experience usually begin with Span 321.

Note 2: These prerequisite courses may be waived for those having sufficient proficiency with the language.

5. Complete the following:
Span 321, 322, 326, 339, 345, 355, 377, 378, 380, 441, 451.
Note 1: Fingerprinting and FBI clearance must be completed prior to enrolling in Span 380.
Note 2: Span 377 and 378 must be taken before student teaching.
6. Complete 6 hours from the following courses:
Span 329, 365, 395R, 421, 423, 425, 429R, 438, 439R, 440, 443R, 444, 446R, 448R, 449R, 450R, 454R, 455R, 456R, 458R, 459R, 461, 480R, 490, 520, 521, 522, 529R.
7. Complete the following:
Span 491.
Note: The Senior Proficiency Evaluation is taken in connection with Span 491. It is expected that Spanish majors will pass with a rating of *advanced—low* or higher.
8. Complete the Professional Education Component:
 - a. Complete the following:
CPSE 402.
Sc Ed 276R (3 hours), 350, 353, 379.
 - b. Complete 12 hours of one of the following:
Sc Ed 476R, 496R.

*Hours include courses that may fulfill university core requirements.

BA Spanish Translation (51–85 hours minimum*)

This is a limited-enrollment program requiring departmental admissions approval. Please see the college advisement center for information regarding requirements for admission to this major.

Major Requirements

1. At least 18 hours of upper-division major credit must be completed in residence at BYU.
2. Meet the foreign language residency requirement.
3. Complete a minor (approximately 16–21 hours), second major (approximately 30–60 hours), or supporting course work (15 hours).
4. Complete the following prerequisite courses:
Span 101, 102, 105, 106, 111R, 112R, 205, 206.
Note 1: Students with foreign residence experience usually begin with Span 321.
Note 2: These prerequisite courses may be waived for those having sufficient proficiency with the language.
Note 3: Students wishing to major in Spanish translation and interpretation must apply for admission to the program and pass an entrance exam in Spanish and English. Contact the department secretary the first week of February each year to obtain the official date and place of the exam.
Note 4: Latin American Studies or Spanish Studies minors: Span 321; 339; 345 or 355; 441; and 451 meet requirements for both the Spanish translation major and the area studies minor. Only one of these courses may be doubly counted (applied for both the major and minor). Students wishing to complete a Spanish major and one of these area studies minors must take an additional 6–9 hours chosen from the approved electives for either major or minor. Consult the department and the advisement center for clarification of the choices available.
5. Complete the following:
Span 321, 322, 339, 425 (or 421), 441, 451.
Note: Span 321 and 322 must be completed with a grade of B or better.
6. Complete one course from the following:
Span 345, 355.

7. Complete the following courses in sequence:
Span 415A, 415B, 416A, 416B, 417A, 417B, 418.
Note: Span 322, 425, and either Span 345 or 355 must be taken before Span 415A.
8. Complete 3 hours from the following:
Span 326, 329, 345, 355, 365, 395R, 421, 423, 429R, 438, 439R, 440, 443R, 444, 446R, 448R, 449R, 450R, 454R, 455R, 458R, 459R, 461, 480R, 490, 520, 521, 522, 529R.
9. Complete the following:
Span 491.
Note: The Senior Proficiency Evaluation is taken in connection with Span 491. It is expected that Spanish majors will pass with a rating of *advanced—low* or higher.

*Hours include courses that may fulfill university core requirements.

Minor Spanish (18–42 hours)

Minor Requirements

1. Complete the following prerequisite courses (or equivalent experience):
Span 101, 102, 105, 106, 205, 206.
2. Complete the following:
Span 321, 322, 339.
3. Complete one course from the following:
Span 345, 355.
4. Complete one course from the following:
Span 441, 451.
5. Complete 3 hours from upper-division courses outlined for the major.

Minor Spanish Teaching (21–37 hours)

Minor Requirements

1. Complete the following prerequisite courses (or equivalent experience):
Span 101, 102, 105, 106, 205, 206.
2. Complete the following:
Span 321, 322, 326, 339, 377, 378.
Note: Span 377 and 378 must be taken before student teaching. Span 377 will be waived for students majoring in another language who have had the course in that language. Students who waive the class will need to take 3 additional elective hours from the 300-, 400-, or 500-level courses in Spanish.
3. Complete one course from the following:
Span 345, 355.
4. Complete one course from the following:
Span 441, 451.
5. Complete the following:
Span 491.
Note: The Senior Proficiency Evaluation is taken in connection with Span 491. It is expected that students will pass with a rating of *advanced—plus* or higher.

Spanish (Span)

Undergraduate Courses

100A. Introductory Spanish. (2:3:1) Independent Study also. First semester for those who have had no Spanish and desire maximum time for assimilation.

Spanish and Portuguese

100B. Second Semester, Introductory Spanish. (2:3:1)

Prerequisite: Span 100A.

Continuation of Span 100A.

100C. Third Semester, Introductory Spanish. (2:3:1) Prerequisite:

Span 100B.

Continuation of Span 100B.

100D. Fourth Semester, Introductory Spanish. (2:3:1) Prerequisite:

Span 100C.

Continuation of Span 100C.

101, 102. Foundational Spanish 1, 2. (4:5:2 ea.) F, W, Sp, Su

For students with no previous Spanish. Fundamentals of Spanish, emphasizing communication. (Accelerated sections available.) Pass/Fail only.

105. University Spanish 1. (4:5:1) F, W, Sp, Su Prerequisite: two years of high school Spanish or Span 101, 102 or placement by diagnostic test.

Continued development of grammar, cultural understanding, reading, writing, and conversation skills as introduced in foundational courses. Students are expected to attain an *intermediate—mid* proficiency level.

106. University Spanish 2. (4:5:1) F, W, Sp, Su Prerequisite: Span 105.

Expanded development of grammar, cultural understanding, reading, writing, and conversation skills as introduced in foundational and intermediate courses. Students are expected to attain an *intermediate—mid to intermediate—high* proficiency level.

111R. Spanish Conversation 1. (2:2.5:1 ea.) F, W, Sp, Su Prerequisite: two years of high school Spanish or Span 101, 102, or equivalent. Recommended: concurrent enrollment in Span 105.

Development of conversational skills in Spanish.

112R. Spanish Conversation 2. (2:2.5:1 ea.) F, W, Sp, Su Prerequisite: three years of high school Spanish or Span 105, or equivalent. Recommended: concurrent enrollment in Span 106.

Continued development of conversation skills in Spanish.

199R. Academic Internship. (1–3:Arr.:Arr. ea.) Prerequisite: department chair's and cooperative education coordinator's consent.

Work experience evaluated by supervisor and posted on student's transcript.

205. University Spanish 3. (4:5:1) F, W, Sp, Su Prerequisite: four years of high school Spanish or Span 106 or equivalent or placement by diagnostic test.

Continued development of grammar, cultural understanding, conversation skills, writing, and reading through the study of literature. Students are expected to attain an *intermediate—high* proficiency level. Fulfills the university core Languages of Learning requirement.

206. University Spanish 4. (4:5:1) F, W, Sp, Su Prerequisite: Span 205.

Expanded development of grammar, cultural understanding, conversation skills, writing, and reading through the study of literature. Students are expected to attain a strong *intermediate—high* or *advanced—low* proficiency level.

311R. Spanish Oral Proficiency Preparation. (2:2:1 ea.) Prerequisite: Span 212 or equivalent.

Tools course to help students meet oral proficiency requirements for major and minor. Will not count for major or minor.

321. Third-Year Spanish Reading, Grammar, Culture, and Composition 1. (3:3:0) F, W, Sp, Su Prerequisite: Span 206 or equivalent.

First semester of a two-semester sequence. Intensive study and practice with Spanish grammar, vocabulary, and writings incorporating cultural and literary readings. First class for returned Spanish-speaking missionaries. Fulfills the university core Languages of Learning requirement. Required for Spanish major and minor.

322. Third-Year Spanish Reading, Grammar, Culture, and Composition 2. (3:3:0) F, W, Sp, Su Prerequisite: Span 321 or equivalent.

Second semester of a two-semester sequence. Intensive study and practice with Spanish grammar, vocabulary, and writings incorporating cultural and literary readings. Some sections have readings and writing assignments focusing on the professions. Required for Spanish major and minor.

326. Spanish Phonetics and Pronunciation. (3:3:0) Prerequisite: Span 202 or equivalent.

Spanish sound system; underlying concepts of Spanish speech production and applications to pronunciation.

329. Survey of Hispanic Linguistics. (3:3:0) Prerequisite: Span 321 or equivalent.

Introduction to linguistics of Spanish: phonetics, phonology, morphology, syntax, semantics, history of the Spanish language, philology, dialectology, sociolinguistics, and psycholinguistics.

339. Introduction to Spanish Literature. (3:3:0) Prerequisite: Span 202 or equivalent. Course is prerequisite to 400-level literature courses.

Readings in modern Hispanic literatures, focusing on formal literary analysis.

345. Iberian Civilization. (3:3:0) Prerequisite: Span 202 or equivalent.

Culture, history, art, music, and traditions of Spain.

355. Ibero-American Civilization. (3:3:0) Prerequisite: Span 202 or equivalent.

Culture, history, art, music, and traditions of Spanish America.

365. Mexican-American Culture. (3:3:0) Prerequisite: Span 202 or equivalent.

Contemporary culture (education, popular and fine arts, worldview, attitudes, etc.) of the Mexican-American in the U.S.

Note: Prospective teachers should take Span 377 and 378 just before student teaching and after as many upper-division Spanish courses as possible.

Spanish-teaching majors and minors must take both Span 377 and 378.

377. Spanish Teaching Methods 1. (3:3:2) Prerequisite: Span 321, 326; 345 or 355; Sc Ed 276R; fingerprinting and FBI clearance for Spanish teaching majors and minors.

History of language teaching methods; standards-based unit and lesson planning; strategies for teaching speaking, listening, reading, writing, grammar, and vocabulary.

378. Spanish Teaching Methods 2. (3:3:2) Prerequisite: Span 377.

Strategies for teaching culture; use of instructional media and technology; assessment of learner performance; foreign language program models; planning for continuing professional development.

380. Practicum in Teaching Spanish. (1:0:3) Prerequisite: Sc Ed 276R; Span 377; concurrent enrollment in Span 378; Spanish teaching major status.

Implementing meaningful and engaging instruction for secondary students in Spanish; developing critical thinking, problem solving, literacy, and democratic character; assessing learner performance.

395R. Contemporary Culture. (1–3:Arr.:Arr. ea.) For Study Abroad programs only. Prerequisite: Span 102 or equivalent.

Contemporary Spanish (or Spanish-American) culture: the people and their customs and institutions.

399R. Academic Internship: Spanish Language Field Experience. (1–6:0:0 ea.) Prerequisite: program coordinator's consent.

On-the-job experience.

415A. Beginning Translation and Interpretation, English to Spanish. (1.5:3:1) F 1st blk. Prerequisite: Span 321, 322, with a B grade or better.

Introduction to history, theory, and principles of translation and interpretation dealing specifically in English to Spanish.

415B. Beginning Translation and Interpretation, Spanish to English. (1.5:3:1) F 2d blk. Prerequisite: Span 415A.

Introduction to history, theory, and principles of translation and interpretation, dealing specifically in Spanish to English.

416A. Intermediate Translation and Interpretation, English to Spanish. (1.5:3:1) W 1st blk. Prerequisite: Span 415B, with a B grade or better.

Systematic study and contrastive exercises in translation and interpretation from English to Spanish. Translation of texts in general conceptual fields.

416B. Intermediate Translation and Interpretation, Spanish to English. (1.5:3:1) W 2d blk. Prerequisite: Span 416A.

Systematic study and contrastive exercises in translation and interpretation from Spanish to English. Translation of texts in general conceptual fields.

417A. Advanced Translation and Interpretation, English to Spanish. (1.5:3:1) F 1st blk. Prerequisite: Span 416B, with a B grade or better.

Translation of texts in specific fields. Simultaneous interpretation. From English to Spanish.

417B. Advanced Translation and Interpretation, Spanish to English. (1.5:3:1) F 2d blk. Prerequisite: Span 417A.

Translation of texts in specific fields. Simultaneous interpretation. From Spanish to English.

418. Translation and Interpretation Project. (3:3:0) Prerequisite: Span 417A,B.

Individual translation and/or interpretation projects.

421. Fourth-Year Grammar. (3:3:0) F, W Prerequisite: Span 321, 322.

Fourth-year study of Spanish grammar and usage.

423. Border Spanish. (3:3:0) Prerequisite: Span 321 or equivalent.

Mexican-American speech patterns, including language contact and bilingualism. Previous course in linguistics strongly recommended.

425. Contrastive Analysis of the Structures of Spanish and English. (3:3:0) Prerequisite: Span 321.

Contrastive analysis of phonology, morphology, syntax, and semantics of Spanish and English.

429R. Special Topics in Spanish Linguistics. (3:3:0 ea.) Prerequisite: Span 326 or 329.

Course content varies yearly; focuses on specific area of linguistics such as dialectology or sociolinguistics.

438. Hispanic Cinema. (3:3:0) Prerequisite: Span 339 or equivalent.

Introduction to study of film; background in appreciating best of motion picture art in Spain and Spanish America. Previous experience with film useful but not required.

439R. Hispanic Theatre Production. (3:3:0 ea.) Prerequisite: director's consent.

Theory and practice of dramatic performance. Includes participation in play to be performed during semester.

Note: No more than 3 hours of 439R credit may count toward any degree.

440. Medieval Spanish Literature. (3:3:0) Prerequisite: Span 441 or equivalent.

Spanish literature from *El Cantar de Mió Cid* (1140) through *La Celestina* (1499).

441. Survey of Spanish Literature. (3:3:0) Independent Study also. Prerequisite: Span 339.

Literary masterpieces of Spain.

443R. Golden Age Literature. (3:3:0 ea.) Prerequisite: Span 441 or equivalent.

Sixteenth- and seventeenth-century Spanish literature.

444. Don Quixote. (3:3:0) Prerequisite: Span 441 or equivalent.

In-depth study of Cervantes' *El ingenioso hidalgo don Quixote de la Mancha*.

446R. Nineteenth-Century Literature. (3:3:0 ea.) Prerequisite: Span 441 or equivalent.

Romanticism (1770s through 1870s) and/or the novels of Benito Pérez Galdós and his contemporaries.

448R. Twentieth-Century Spanish Literature. (3:3:0 ea.)

Prerequisite: Span 441 or equivalent.

Genre (twentieth-century novel, drama, or poetry) or particular school (Generation of 1898, Generation of 1927, etc.) emphasized.

449R. Special Topics in Spanish Literature. (3:3:0 ea.)

Prerequisite: Span 441 or equivalent.

Specific topics in Spanish (peninsular) literature. Course content will vary each semester to offer optimum exposure to all areas of Spanish literature.

450R. Early Spanish-American Literature. (3:3:0 ea.) Prerequisite: Span 451 or equivalent.

Indigenous literature (Maya, Nahuatl, etc.) and other texts written in Spanish Colonial America through eighteenth century.

451. Survey of Hispanic-American Literature. (3:3:0) Independent Study also. Prerequisite: Span 339.

Literary masterpieces of Spanish America.

454R. The Spanish American Novel. (3:3:0 ea.) Prerequisite: Span 451 or equivalent.

Selected Spanish-American novelists such as Juan Rulfo, Gabriel García Márquez, Alejo Carpentier, Mario Vargas-Llosa, etc.

455R. Spanish American Poetry. (3:3:0 ea.) Prerequisite: Span 451 or equivalent.

Selected Spanish-American poets, movements, and national traditions.

456R. Spanish American Drama. (3:3:0 ea.) Prerequisite: Span 451 or equivalent.

Twentieth-century theatre from Spanish America and Brazil.

458R. Hispanic-American Short Story. (3:3:0 ea.) Prerequisite: Span 451 or equivalent.

Introduction and development of an important literary genre in Spanish America, including works of Jorge Luis Borges, Julio Cortázar, Juan Rulfo, Gabriel García Márquez, etc.

459R. Special Topics in Spanish American Literature. (3:3:0 ea.) Prerequisite: Span 451 or equivalent.

Specific topics in Latin American literature. Course content will vary each semester to offer optimum exposure to all areas of Latin American literature.

461. Spanish-Speaking American (Mexican-American) Literature. (3:3:0) Prerequisite: Span 339 or instructor's consent.

Spanish-English literature of the Mexican-American within the United States.

477. Techniques of Spanish Instruction. (3:3:0) Prerequisite: Span 321, 322, 326, 339; 345 or 355.

Techniques for teaching the four language skills and grammar, vocabulary, and culture; use of technology; assessing language achievement. For students not enrolled in Spanish teaching major or minor.

480R. Directed Research in Spanish. (1-3:Arr:0 ea.) Prerequisite: written proposal subject to department approval. Independent Study only.

Under faculty member's direction, designing and conducting research project covering material not normally presented in regular course work. Research paper required. Total Span 480R credit toward bachelor's degree not to exceed 3 hours.

490. Senior Seminar in Spanish. (3:3:0) Prerequisite: senior standing.

Bibliography, research, and writing of senior thesis. Recommended for students planning graduate studies in Spanish.

491. Senior Proficiency Evaluation. (0:1:0)

Tool course to meet oral proficiency requirement for all majors and teaching minors. No major or minor credit.

500-Level Graduate Courses (available to advanced undergraduates)

520. Problems in Spanish Grammar. (3:3:0)

Application of contemporary grammatical concepts to problems in Spanish grammar.

521. Romance Philology. (3:3:0)

Comparative study of evolution of Latin into modern romance languages.

522. History of the Spanish Language. (3:3:0)

Linguistic sources that contributed to formation of the Spanish language.

529R. Special Topics in Spanish Linguistics. (3:3:0 ea.)

Prerequisite: Span 520, 522.

Topics include semantics, dialectology, and sociolinguistics.

577. Spanish Language Teaching Procedures. (3:3:2) For public school teachers.

Mastery of skills specific to foreign language instruction. Lectures, demonstrations, practical experience.

599R. Academic Internship: Spanish Internship. (1–3:0:0 ea.) For supervised internship credit on BYU Study Abroad programs only. Prerequisite: Span 321 and instructor's consent.

Graduate Courses

For 600- and 700-level courses, see the BYU 2006–2007 Graduate Catalog.

Spanish and Portuguese Faculty

Professors

Alba, Orlando (1993) BA, U. Católica Madre y Maestra, 1972; MA, U. of Puerto Rico, 1978; PhD, U. Nacional de Educación a Distancia, Madrid, Spain, 1988.

Cluff, Russell M. (1983) BA, MA, Brigham Young U., 1972, 1974; PhD, U. of Illinois, 1978.

Larson, Jerry W. (1980) BA, Utah State U., 1969; MA, Brigham Young U., 1974; PhD, U. of Minnesota, Minneapolis, 1977.

Lund, Christopher C. (1992) BA, Brigham Young U., 1967; MA, PhD, U. of Texas, Austin, 1970, 1974.

Lyon, Thomas E. (Ted) (1972) BA, U. of Utah, 1963; PhD, U. of California, Los Angeles, 1967.

Quackenbush, L. Howard (1970) BA, MA, Brigham Young U., 1965, 1967; PhD, U. of Illinois, 1970.

Rosenberg, John R. (1985) BA, MA, Brigham Young U., 1979, 1981; MA, PhD, Cornell U., 1984, 1985.

Sherman, Alvin F., Jr. (1999) BA, MA, Brigham Young U., 1985, 1987; PhD, U. of Virginia, 1990.

Williams, Frederick G. (1999) Gerrit de Jong, Jr., Distinguished Professor of Luso-Brazilian Studies; BA, Brigham Young U., 1965; MA, PhD, U. of Wisconsin, 1967, 1971.

Williams, G. Lynn (2000) BA, PhD, U. of London, England, 1973, 1978.

Associate Professors

Fails, Willis Clark (1981) BA, MA, Brigham Young U., 1975, 1977; PhD, U. of Texas, Austin, 1984.

García, Mara Lucy (1996) BA, MA, Brigham Young U., 1990, 1992; PhD, U. of Kentucky, 1997.

Hegstrom, Valerie (1994) BA, MA, Brigham Young U., 1982, 1986; MA, PhD, U. of Kansas, 1988, 1992.

Labrum, Marian B. (1974) BA, MA, Brigham Young U., 1972, 1975; PhD, Middlebury Coll., 1988.

Laraway, David P. (1998) BA, MA, Brigham Young U., 1992, 1994; PhD, Cornell U., 1998.

Meredith, Robert Alan (1976) BA, MA, Brigham Young U., 1969, 1974; PhD, Ohio State U., 1976.

Pratt, Dale J. (1994) BA, Brigham Young U., 1990; PhD, Cornell U., 1994.

Smead, Robert N. (1998) BA, MA, Brigham Young U., 1981, 1983; PhD, U. of Texas, Austin, 1988.

Turley, Jeffrey (1989) BA, MA, Brigham Young U., 1982, 1984; PhD, U. of California, Berkeley, 1992.

Weatherford, Douglas (1996) BA, Brigham Young U., 1988; PhD, Pennsylvania State U., 1997.

Assistant Professors

Bateman, Blair E. (2002) BA, MA, Brigham Young U., 1990, 1995; PhD, U. of Minnesota, 2002.

Hague, Daryl R. (1994) BA, MA, Brigham Young U., 1987, 1996; JD, U. of Washington, 1990; PhD, State U. of New York, Binghamton, 2002.

Lago, Baldomero (2004) BA, U. of Utah, 1992; MA, Brigham Young U., 1999; PhD, Universidad Nacional de Educación Distancia, Spain, 2004.

Preto-Bay, Ana (2003) BA, U. Clássica de Lisboa, Portugal, 1985; MA, U. of Utah, 1987; PhD, Brigham Young U., 2002.

Stallings, Gregory C. (1999) BA, MA, Brigham Young U., 1989, 1993; PhD, U. of California, Irvine, 1999.

Associate Lecturer

Hoskisson, Joaquina Valtierra de (1990) BA, MA, Brigham Young U., 1971, 1974.

Assistant Teaching Professor

Knapp, Nieves (1997) BA, BA, U. of Oviedo, Spain, 1986, 1990; MA, Brigham Young U., 1995; PhD, U. of Oviedo, Spain, 2003.

Emeriti

Anderson, C. Dixon (1956) BA, Brigham Young U., 1953; MA, PhD, U. of Texas, Austin, 1956, 1965.

Ashworth, Peter P. (1966) AA, Bakersfield Coll., 1952; BA, Brigham Young U., 1962; PhD, U. of Oklahoma, 1967.

Brown, Jack V. (1964) BA, MA, Brigham Young U., 1957, 1960.

Clegg, J. Halvor (1972) BA, Brigham Young U., 1964; MA, PhD, U. of Texas, Austin, 1967, 1969.

Compton, Merlin D. (1964) BA, MA, Brigham Young U., 1952, 1954; PhD, U. of California, Los Angeles, 1959.

Dennis, Ronald D. (1966) BA, Brigham Young U., 1964; MA, PhD, U. of Wisconsin, Madison, 1965, 1972.

Dowdle, Harold L. (1968) BA, MA, Brigham Young U., 1948, 1949; PhD, Stanford U., 1954.

Forster, Merlin H. (1987), H. Darrel Taylor Distinguished Professor of Latin American Literature; BA, Brigham Young U., 1956; MA, PhD, U. of Illinois, 1957, 1960.

Hall, Wendell H. (1966) BA, MA, U. of Utah, 1952, 1953; PhD, Inter-American U., Mexico, 1974.

Jackson, T. Wendell (1968) BA, Brigham Young U., 1956; PhD, Ohio State U., 1968.

Jensen, Gordon K. (1969) BA, Brigham Young U., 1963; MA, PhD, U. of Wisconsin, Madison, 1966, 1975.

Meléndez, Gloria S. (1978) BA, U. of Utah, 1955; PhD, Brigham Young U., 1980.

Moon, H. Kay (1963) BA, MA, Brigham Young U., 1957, 1959; PhD, Syracuse U., 1963.

Ramsey, Myriam (1975) Dipl, Pontificia Universidade Católica do Brasil, Campinas, Brazil, 1954; BA, MAT, Georgia State U., 1971, 1973; PhD, U. of North Carolina, Chapel Hill, 1975.

Rosen, Harold E. (1963) BA, MA, Brigham Young U., 1954, 1959; PhD, U. of Oregon, 1966.

Shreeve, Lyman Sidney (1965) BA, MA, Brigham Young U., 1949, 1951; PhD, Inter-American U., Mexico, 1970.

Taylor, James Scott (1962) BA, MA, Brigham Young U., 1957, 1960; PhD, Ohio State U., 1967.

Valentine, Amy Y. (1970) BA, Brigham Young U., 1946.

Statistics

Del T. Scott, Chair
230 TMCB, (801) 422-4505

College of Physical and Mathematical Sciences Advisement
Center
N-179 ESC, (801) 422-6270

Admission to Degree Program

All degree programs in the Department of Statistics are open enrollment.

The Discipline

The statistician's job is to help determine what data are to be collected, how to collect them to avoid biases and distortions, and then how to turn those data into information that other people can understand to help solve problems and reach sound decisions. From the predictions of the political pollster to exacting analyses of pharmaceutical research, the breadth and diversity of statistical applications are injected into nearly all aspects of modern life.

Career Opportunities

The curriculum and degrees offered through the Department of Statistics are designed to equip students with decision-making skills for careers as professional statisticians in industrial organizations, government agencies, insurance companies, pharmaceutical companies, universities, and research institutes. The technical tools statisticians acquire are useful in many areas, and for this reason a statistics degree is also excellent preparation for professional programs in law, business administration, and public administration.

Graduation Requirements

To receive a BYU bachelor's degree a student must complete, in addition to all requirements for a specific major, the following university requirements:

- The university core, consisting of requirements in general and religious education (See the University Core section of this catalog for details. For a complete listing of courses that meet university core requirements, see the current class schedule.)
- A minimum of 30 credit hours in residence
- A minimum of 120 credit hours
- A cumulative GPA of at least 2.0

Undergraduate Programs and Degrees

BS	Actuarial Science
BS	Statistics
	Emphases:
	Statistical Science
	Biostatistics
	Business Analysis
	Information Systems
	Quality Science
BS-MS	Integrated Master's Program
Minor	Statistics

Students should see their college advisement center for help or information concerning the undergraduate programs.

Graduate Programs and Degrees

MS Statistics

For more information see the BYU 2006–2007 Graduate Catalog.

General Information

1. It is recommended that a student complete the following courses in high school:
 - 3 units of English
 - 1 unit of physical science, either chemistry or physics.
 - 4 units of mathematics, consisting of 2.5 units of algebra, 1 unit of geometry, and 0.5 unit of trigonometry. This should qualify students to begin college mathematics with Math 112, analytic geometry and calculus.

Because mathematics provides the foundation for all work in the physical and mathematical sciences, particular attention is paid to high school preparation in this subject. To decide which mathematics course should be taken first, write to the Mathematics Department, 292 TMCB, and request a mathematics placement test.
2. Students are encouraged to complete 15 credit hours each semester. Taking fewer credits substantially increases the cost and the number of semesters to graduate.
3. An integrated BS/MS program is available. This program allows students in all undergraduate emphases to receive their bachelor's and master's degree in five years of schooling. It is available only if students begin a major in statistics as freshmen or start early enough in the program to match the pace required to progress through it in a five-year period.

Major Requirements for All Statistics Programs

1. No more than 3 hours of D credit is allowed in major courses.
2. Complete the following preparation core courses:
 - C S 100 or 142.
 - Math 112, 113, 214.
3. Complete the following statistics core courses:
 - Stat 221, 224, 291, 292, 322, 334*, 336, 337, 431*, 441, 442.

*Note: Stat 334 and 431 are elective courses for the actuarial science major.
4. Complete one of the majors or emphases listed below.

BS Actuarial Science (62 hours*)

Major Requirements

1. Complete the major requirements listed above.
2. Complete the following:
 - Econ 110.
 - Stat 474, 475.
3. Complete six courses from the following:
 - Acc 200, 210.
 - Bus M 300.
 - Econ 380, 381, 382, 388, 450, 588.
 - Stat 334, 361, 424, 431, 435, 462, 466, 469, 545.

*Hours include courses that may fulfill university core requirements.

BS Statistics: Statistical Science Emphasis (62 hours*)

Emphasis Requirements

1. Complete the major requirements listed above.
2. Complete seven courses from the following, with at least four courses from the statistics list:
 - Math 190, 311, 315, 316, 334, 350, 355, 371, 387, 480.
 - Stat 424, 435, 462, 466, 469, 474, 475, 545.

Statistics

Recommended Courses

The following are strongly recommended if a student plans to pursue a PhD. (See the Mathematics section of this catalog for prerequisites.)

Math 190, 315, 316.

*Hours include courses that may fulfill university core requirements.

BS Statistics: Biostatistics Emphasis (61–64 hours*)

Emphasis Requirements

1. Complete the major requirements listed above.
2. Complete a minor offered by the College of Biology and Agriculture, or equivalent approved course work.
3. Complete two courses from the following:
Hlth 375.
Stat 424, 435, 466, 469.

*Hours include courses that may fulfill university core requirements.

BS Statistics: Business Analysis Emphasis (64 hours*)

Emphasis Requirements

1. Complete the major requirements listed above.
2. Complete a minor in management (approximately 17 hours).
3. Complete two courses from the following:
Stat 424, 462, 466, 469.

*Hours include courses that may fulfill university core requirements.

BS Statistics: Information Systems Emphasis (65 hours*)

Emphasis Requirements

1. Complete the major requirements listed above.
2. Complete the following:
Acc 200.
I Sys 401, 402, 403, 411, 412, 413.
3. Complete one course from the following:
Stat 424, 462.

*Hours include courses that may fulfill university core requirements.

BS Statistics: Quality Science Emphasis (65 hours*)

Emphasis Requirements

1. Complete the major requirements listed above.
2. Complete the following:
Stat 361, 462, 466.
3. Complete a minor in manufacturing.

*Hours include courses that may fulfill university core requirements.

Minor Statistics (20 hours*)

Minor Requirements

1. Complete one course from the following:
C S 100, 142.
2. Complete the following:
Stat 221, 224, 322, 336.
3. Complete two additional courses numbered 321 or higher (excluding Stat 333 and 472).

Note: Stat 510 and 511 can be taken in place of but not in addition to Stat 221 and 336 in item 2.

*Hours include courses that may fulfill university core requirements.

Statistics (Stat)

Undergraduate Courses

105. Introduction to Statistics. (3:3:2) F, W, Sp, Su Prerequisite: Math 97 or equivalent.

Fundamental ideas and applications of statistics.

199R. Academic Internship. (1–3:Arr.:Arr. ea.) F, W, Sp, Su Prerequisite: department chair's and cooperative education coordinator's consent.

Work experience evaluated by supervisor and posted on student's transcript.

221. Principles of Statistics. (3:3:2) F, W, Sp, Su Honors also. Prerequisite: Math 110 or equivalent.

Stemplots, boxplots, histograms, scatterplots; central tendency, variability; confidence intervals and hypothesis testing involving one and two means and proportions; contingency tables, regression; computer package.

224. Statistical Computing 1. (3:3:2) F, W Prerequisite: C S 100 or 142; Stat 221 or equivalent with instructor's consent.

Statistical programming using the data step in SAS; basic statistical Procs; Proc SQL; ODS; MACROS; introduction to S-Plus.

291, 292. Teaching Elementary Statistics in a Laboratory Setting. (0.5:0:2 ea.) 291: F, W, Sp, Su; 292: F, W, Sp Prerequisite: for 291: Stat 221; for 292: Stat 291.

Supervised training and experience in teaching statistical concepts, managing lab experiences, using learning activities, and evaluating student performance.

301. Statistics and Probability for Secondary Educators. (3:3:2) F, Sp Prerequisite: Math 113.

Statistics and probability, emphasizing secondary-specific curriculum. Principles of counting, probability distributions, density functions, graphical methods, descriptive and inferential statistics, computer package.

321. Elements of Mathematical Statistics. (3:3:2) F, W, Su Prerequisite: Math 113 or 119 or equivalent.

Probability, random variables, frequency distributions, estimation and tests of hypotheses from a theoretical standpoint.

322. Matrix Computations in Statistics. (2:2:0) F, W, Sp Prerequisite: Math 110.

Basic matrix operations, inverse, quadratic forms, rank; symmetric, idempotent, orthogonal, and positive definite matrices; canonical forms, eigenvalues and eigenvectors.

333. Utah Colleges Exit Poll Administration. (2:2:0) F Prerequisite: Stat 334 or concurrent enrollment.

Planning and executing KBYU/Utah Colleges Exit Poll.

334. Methods of Survey Sampling. (3:3:2) F, W Prerequisite: Stat 221 or equivalent.

Sampling frames, questionnaire design; simple random, systematic, stratified, and cluster sampling methods, comparing domain means, contingency table analysis.

336. Statistical Methods 1. (3:3:0) F, W Prerequisite: Stat 221; 224, 322, or concurrent enrollment.

Sample estimation and hypothesis testing, nonparametric analogs for t-tests, contingency tables, simple linear regression, multiple regression, subset selection procedures; residual, influence, and collinearity diagnostics.

337. Statistical Methods 2. (3:3:0) F, W Prerequisite: Stat 336.

Completely randomized, randomized block, and Latin square designs; split plots, model writing, fixed model analysis of covariance, nonparametric analogs to classical methods of analysis.

361. Quality Improvement for Industry. (3:3:1) F, W, Sp Prerequisite: Math 112 or 119.

Quality management philosophies (Deming, etc.) Strategies for continuous improvement. Graphical and numerical methods of data analysis. Process control charts. Design and analysis of experiments for process characterization and improvement.

421. Probability and Distribution Theory. (3:3:0) F, W Prerequisite: Math 113 or equivalent.

Mathematical formulation of continuous and discrete random variables, including underlying probability models, distribution functions, conditional and marginal probability laws, convolutions and other functions of random variables, limiting distributions.

424. Statistical Computing 2. (3:3:2) F Prerequisite: Stat 224.

S Plus, statistical graphics, SAS macros, SAS Proc IML, and simulation.

431. Experimental Design. (3:3:0) F, W Prerequisite: Stat 337 or 511.

Basic designs, power and sample size, Latin squares, incomplete blocks, change-over designs, factorials, fractional factorials, confounding, split-plots, response surface designs.

435. Nonparametric Statistical Methods. (3:3:0) F Prerequisite: Stat 337 or 511 or equivalent.

Permutation tests, rank-based methods, analysis of contingency tables, bootstrap methods, curve fitting.

441. Statistical Theory 1. (3:3:0) F, W Prerequisite: Math 214.

Axiomatic probability theory for discrete and continuous random variables; moment-generating functions; conditional probability; stochastic independence; transformations; limiting distributions; stochastic convergence; central limit theorem.

442. Statistical Theory 2. (3:3:0) F, W Prerequisite: Stat 441.

Sufficiency and completeness; point and interval estimation; hypothesis testing; Cramer-Rao inequality; some asymptotic results; Bayesian methods.

462. Quality Control and Industrial Statistics. (3:3:2) W Prerequisite: Stat 336 or 361. Recommended: Stat 337.

Six sigma; tools with which to define, measure, analyze, improve, and control. Advanced concepts in control charts; applying experimental design for process and product improvement.

466. Introduction to Reliability. (3:3:2) W Prerequisite: Stat 336 or 361; 321 or 441.

Mathematics, distributions, management, and maintenance of basic reliability concepts; collection and analysis of test data; fault tree analysis; applying reliability in various areas.

469. Applied Time Series and Forecasting. (3:3:0) F Prerequisite: Stat 336.

Data mining, univariate ARIMA time series theory and application, seasonal models, spatial correlation models, conditional heteroscedastic models in financial time series, case studies.

472. Actuarial Problems. (1:2:0) W, Sp Prerequisite: Stat 441, 442, or concurrent enrollment.

Applying mathematical statistics in actuarial science. Prepares for the course 1 exam.

474. Life Contingencies 1. (3:3:0) F Prerequisite: Math 214; Stat 441 or concurrent enrollment.

Theory of interest, annuities, amortization, life tables, life annuities. Prepares for the course 2 exam.

475. Life Contingencies 2. (3:3:0) W Prerequisite: Stat 474.

Contingent annuities, joint annuities, insurance, calculating premiums and reserves. Prepares for the course 3 exam.

496R. Academic Internship: Statistics. (0.5–9:Arr:Arr ea.) F, W, Sp, Su Prerequisite: department coordinator's consent.

On-the-job experience or internships for undergraduates. Report is required.

497R. Introduction to Statistical Research. (0.5–3:0:6 ea.) F, W, Sp, Su Prerequisite: department chair's consent.

Review of current literature and survey of present status of significant statistical research; collaborative work between student and faculty.

499R. Honors Thesis. (0.5–6:Arr:Arr. ea.) F, W, Sp, Su Prerequisite: departmental consent.

500-Level Graduate Courses (available to advanced undergraduates)

510. Introduction to Statistics for Graduate Students. (3:3:1) F, W, Sp, Su Prerequisite: Math 97 or equivalent. Recommended: Math 110 or equivalent.

Introductory statistics course for graduate students outside Statistics Department. Topics include probability, estimation, hypothesis tests, simple linear regression, analysis of variance.

511. Statistical Methods for Research 1. (3:3:2) F, W, Sp Prerequisite: Stat 510 or equivalent.

Basic statistical methodologies and experimental design. Topics include analysis of variance, multiple regression, analysis of covariance, common experimental designs.

512. Statistical Methods for Research 2. (3:3:2) W, Su Prerequisite: Stat 511.

Advanced statistical methodologies. Topics include repeated measures models, basic multivariate techniques, logistic regression, log-linear models.

522. Theory of Linear Models. (3:3:0) W Prerequisite: Stat 322, 442, or equivalents.

Linear hypotheses, with application to regression and design.

525. Statistical Inference. (3:3:0) F Prerequisite: Stat 322, 442, or equivalents.

Exponential families, likelihood theory, maximum likelihood estimation, likelihood ratio tests, small and large sample tests.

532. Quality Improvement for Engineering. (3:3:2) F Prerequisite: Stat 361, Math 113.

Selected topics in statistical theory, analysis of variance, simple and multiple regression, response surface design and analysis, multilevel experimental designs, blocking designs, confounding.

533. Utah Colleges Exit Poll Design. (2:2:0) F Prerequisite: concurrent enrollment in Stat 534.

Planning and executing KBYU/Utah Colleges Exit Poll.

534. Sampling. (3:3:2) F even yr. Prerequisite: Stat 334; 441 or departmental consent.

Estimation in systematic, simple random, stratified, cluster, and PPS sampling and mixtures of these; ratio estimation, sample size determination and principles of sample allocation.

535. Applied Linear Models. (3:3:0) F Prerequisite: Stat 337; Stat 441 or concurrent enrollment; or departmental consent.

Analysis of full-rank model, over-parameterized model, cell-means model, unequal subclass frequencies, and missing and fused cells. Estimability issues, diagnostics.

Statistics

536. Modern Regression Methods. (3:3:0) W even yr. Prerequisite: Stat 322; 336 or 511.

Weighted least squares, measurement error models, robust regression, nonlinear regression, local regression, generalized additive models, tree-structured regression.

537. Generalized Linear Models. (3:3:0) F Prerequisite: Stat 522, 535.

Generalized linear models framework, binary data, polytomous data, log-linear models.

545. (Stat-EC En 510) Stochastic Processes. (3:3:0) Sp Prerequisite: Stat 441 or equivalent.

Review of elementary probability: expectation, characteristic functions, limit theorems. Introductory random processes: definitions and properties, covariance and spectral density, time average, stationarity, ergodicity, linear system relations, mean square estimation, Markov processes.

551. Introduction to Applied Bayesian Methods. (3:3:0) W Prerequisite: Stat 442; or Stat 441 and instructor's consent.

Basic Bayesian inference; conjugate and non-conjugate analyses; Markov Chain Monte Carlo methods; hierarchical modeling.

590. Statistical Consulting. (3:3:0) W Prerequisite: departmental consent.

Introduction to statistical consulting, oral presentations, presentation packages, written reports. Extensive applied experience in the Center for Collaborative Research and Statistical Consulting.

591R. Graduate Seminar in Statistics. (0:1:0 ea.) F, W

595R. Special Topics in Statistics. (1–3:Arr:0 ea.) On dem. Prerequisite: instructor's consent.

599R. Academic Internship: Statistics. (1–9:0:Arr. ea.) F, W, Sp, Su Prerequisite: departmental consent.

On-the-job experience. Report required.

Graduate Courses

For 600- and 700-level courses, see the BYU 2006–2007 Graduate Catalog.

Statistics Faculty

Professors

Collings, Bruce J. (1988) BS, MS, MS, Brigham Young U., 1973, 1975, 1977; MS, PhD, U. of North Carolina, 1980, 1981; ASA, Society of Actuaries, 1994.

Fellingham, Gilbert W. (1990) BA, Occidental Coll., 1971; MS, MS, Brigham Young U., 1976, 1977; MS, PhD, U. of Washington, 1988, 1990.

Grimshaw, Scott D. (1993) BS, Southern Utah State Coll., 1983; MS, PhD, Texas A&M U., 1985, 1989.

Lawson, John S. (1986) AA, Los Angeles Valley Coll., 1967; BS, MS, Brigham Young U., 1969, 1971; MS, Rutgers U., 1976; PhD, Polytechnic Inst. of New York, 1983.

Schaalje, G. Bruce (1992) BS, MS, Brigham Young U., 1977, 1979; MS, U. of Washington, 1981; PhD, North Carolina State U., 1988.

Scott, Del T. (1977) BS, MS, Brigham Young U., 1970, 1973; PhD, Pennsylvania State U., 1977.

Tolley, H. Dennis (1983) BS, Brigham Young U., 1970; PhD, U. of North Carolina, 1974; ASA, Society of Actuaries, 1981.

Associate Professors

Christensen, William F. (2001) BS, MS, Brigham Young U., 1994, 1995; PhD, Iowa State U., 1999.

Reese, C. Shane (2002) BS, MS, Brigham Young U., 1994, 1995; PhD, Texas A&M U., 1999.

Whiting, David G. (1995) BA, MS, Brigham Young U., 1988, 1990; PhD, Texas A&M U., 1995.

Associate Teaching Professors

Fields, Paul J. (2003) BS, ME, MBA, Brigham Young U., 1975, 1975, 1980; PhD, Pennsylvania State U., 1992.

Larsen, Wayne A. (1998) BS, Brigham Young U., 1961; PhD, Virginia Polytechnic Inst. and State U., 1967.

Assistant Professor

Blades, Natalie J. (2006) AB, Wellesley Coll., 1997; MSE, PhD, Johns Hopkins U., 2002, 2003.

Assistant Teaching Professors

Collings, Patti Burton (1988) BS, MS, Brigham Young U., 1971, 1977.

Nielsen, P. Lynne (2000) BS, U. of Philippines, 1973; MS, Brigham Young U., 1984.

Associate Research Professor

Eggett, Dennis L. (1997) BS, MS, Brigham Young U., 1981, 1983; PhD, North Carolina State U., 1987.

Emeriti

Adams, L. LaMar (1970) BS, MEd, PhD, Brigham Young U., 1961, 1965, 1972.

Beus, Gary B. (1967) BA, Brigham Young U., 1962; MS, PhD, Virginia Polytechnic Inst., 1965, 1968.

Bryce, Gale Rex (1972) AA, Phoenix Coll., 1963; BS, Arizona State U., 1967; MS, Brigham Young U., 1970; PhD, U. of Kentucky, 1974.

Campbell, L. Howard (1962) BS, MBA, U. of Utah, 1955, 1957.

Carter, Melvin W. (1961) BS, Arizona State Coll., 1953; MS, PhD, North Carolina State U., 1954, 1956.

Christensen, Howard B. (1967) BS, Brigham Young U., 1964; MS, PhD, North Carolina State U., 1966, 1975.

Hendrix, Leland J. (1967) BS, MA, PhD, Brigham Young U., 1960, 1966, 1967.

Hilton, H. Gill (1962) BS, Brigham Young U., 1957; MS, PhD, North Carolina State U., 1960, 1962.

Nielson, Howard C. (1957) BS, U. of Utah, 1947; MS, U. of Oregon, 1949; MBA, PhD, Stanford U., 1956, 1957.

Rencher, Alvin C. (1963) BS, MA, Brigham Young U., 1959, 1962; PhD, Virginia Polytechnic Inst., 1968.

Richards, Dale O. (1963) BS, Utah State U., 1950; MS, PhD, Iowa State U. of Science and Technology, 1957, 1963.