

## KINESIOLOGY DEPARTMENT

### *Division of Natural Sciences*

Professor Jimmy C. Smith, PhD, Chair

Professor Glada C. Munt, PhD

Associate Professor Scott P. McLean, PhD

### *Division of Social Sciences*

Assistant Professor Miguel A. Benavides, MEd, ATC

Assistant Professor Jack P. Flatau, MEd

Assistant Professor Donald P. Gregory, MEd

Assistant Professor William C. Raleigh, JD

Assistant Professor Glenn R. Schwab, MS, ATC

Assistant Professor Ronda S. Seagraves, MA

Assistant Professor James R. Shelton, PhD

Instructor Shawna Hein, MS, ATC

Instructor Hannah Long, MS

Instructor Duane S. Ritter, BS, ATC

Instructor Pamela Ruder, MBA

Instructor Francie Larrieu Smith, MEd

Instructor Lester Sombito, MEd

The Department of Kinesiology provides study toward the Bachelor of Arts and Bachelor of Science degrees with a major or a minor in Kinesiology. Specific additional requirements for the BS degree are listed in the catalog under "University Degrees." The major includes courses that are requisite for graduate study in the discipline and that are needed for teaching certification. The department also offers Fitness and Recreational Activity (FRA47 prefix) classes.

Persons with undergraduate and/or graduate degrees in Kinesiology are prepared for careers in a variety of fields, including exercise science, medicine, health/fitness industry, sport and recreational management, and coaching.

### Area of Kinesiology

The objectives of the study of Kinesiology are:

1. To prepare students for successful careers in the exercise sciences, teaching and coaching.
2. To provide programs of study appropriate for pursuing graduate study and for obtaining teacher certification.
3. To develop student interest and appreciation for careers in the exercise sciences, sports medicine, and health and fitness industries.

### Area of Fitness and Recreational Activity

The objectives of the Fitness and Recreational Activity (FRA) program for Southwestern students are:

1. To develop knowledge, skills and physical abilities that contribute to the enjoyment of various sports and leisure-time activities throughout life.
2. To acquire techniques and expertise in developing and maintaining personal physical fitness.
3. To develop and practice during college years a lifestyle that promotes wellness, physical fitness and incorporates recreational activities on a regular basis.
4. To promote interests and abilities in intramural and recreational sports/activities.

The following policies apply to Fitness and Recreational Activity courses:

1. Two semester hours of Fitness and Recreational Activity course(s) are required for all degrees. FRA courses are graded on a Pass/D/F basis.
2. One additional FRA course may be counted as elective credit toward all degrees.
3. Repeat courses are not allowed in the attainment of the required two semester hours. Exceptions

- to this policy are: 1) repeating 47-001, Adapted Recreational/Fitness Activities, and 2) repeating a course in which content changes by design, such as 47-001 and 301, Selected Topics.
4. Credit by departmental examination may be received in FRA courses upon petition to the department chair. Students must demonstrate appropriate proficiency to earn credit through petition.

**Major in Kinesiology:** 40 semester hours, including Allied Health Education 46-244; Kinesiology 48-192, 313, 403, 423, 704, 714, 813 (Capstone); 48-232 (for students interested in teaching or coaching) or 822 (for students interested in graduate school); two FRA courses in addition to the two required by the general education requirement (repeated courses will not count); 10 additional semester hours of Kinesiology or Allied Health Education.

**Required supporting course in the major:** Mathematics 52-113. (BIO50-424 Organ Physiology and CHE51-544 Organic Chemistry I are recommended for students pursuing the Bachelor of Science degree.)

**NOTE:** The Capstone Experience is satisfied by Kinesiology 48-813. Kinesiology 48-953 may be used to meet this requirement under the following conditions. The student must present a proposal describing the nature of his/her proposed Capstone experience. The faculty member supervising the activity and the Department Chair must approve this proposal. Approval must be obtained prior to registration in the semester preceding the independent study. Students seeking teaching certification may use student teaching to meet their Capstone requirement.

**Minor in Kinesiology:** 18 semester hours, including Kinesiology 48-192, 403; two from 48-423, 704, 714; two FRA courses in addition to the two required by the general education requirement (repeated courses will not count); three or four additional hours of Kinesiology or Allied Health Education, one or two hours of which must be above the introductory level (number of additional hours varies according to courses selected above).

See the Education Department for information regarding teacher certification in kinesiology.

## Kinesiology (KIN)

- 48-192** **FOUNDATIONS OF KINESIOLOGY.** Provides discussion of the history, philosophy and principles that guide the discipline. Explores career options and current issues in Kinesiology.
- 48-232** **PRINCIPLES OF ADMINISTERING AND COACHING SPORT.** This course involves the study of administrative and coaching theories that apply to sport. Areas covered include budget preparation, inventory management, season planning, event scheduling and sport specific defensive and offensive concepts.
- 48-273** **FUNDAMENTALS OF MOVEMENT ANALYSIS.** An introductory course to develop observational and analytical skills as they relate to human movement. Emphasis is placed on developing a systematic approach to analysis. Students will use these skills (with emphasis placed on video analysis) to evaluate fundamental movement patterns including gait, jumping, throwing, catching and striking.
- 48-282** **PHILOSOPHY OF SPORT.** This course offers a look at the world of sport from a philosophical perspective. The sporting arena is used as a vehicle to investigate factors, such as media influence, social perceptions and ethical concepts which help shape our society.
- 48-313** **RESEARCH METHODS IN KINESIOLOGY.** This course covers the basic concepts of research methods used in the study of kinesiology. It is designed to help students think critically, to give students hands-on experiences with research design, data analysis and interpretation and the reporting of results to a professional audience. Prerequisite: Mathematics 52-113. (NS)
- 48-353** **SOCIOLOGY OF SPORT.** See Sociology 34-253.
- 48-403** **HEALTH AND FITNESS CONCEPTS.** Students are presented current scientific information concerning the roles of physical activity, nutrition and life choices in healthy living. Emphasis is placed on incorporating this information into a lifestyle that will produce lifelong optimal health. In addition, issues important to health care and society are discussed. Also Environmental Studies 49-403. (ScS)

- 48-423** **MOTOR LEARNING AND MOTOR CONTROL.** Study of the factors affecting the learning and control of motor skills. Emphasis is given to information processing, motor programming and motor skill analysis. Study is centered upon understanding and application of conceptual frame works that include open and closed looped models. Prerequisite: Kinesiology 48-313. (NS)
- 48-443** **MOTOR DEVELOPMENT/MOTOR ACTIVITIES.** Study of the stages of motor development and the application of this information to the planning of activities in teaching and/or correction of motor patterns.
- 48-523** **PHYSICAL EDUCATION FOR ELEMENTARY AND SECONDARY SCHOOLS.** Attaining knowledge and developing competencies that allow persons to understand, teach and apply principles of education to physical education programs for all grade levels.
- 48-533** **SPORT MANAGEMENT: ORGANIZATION AND ADMINISTRATION.** Study of various administrative philosophies and techniques used in educational, athletic and recreational settings.
- 48-543** **PROBLEMS IN KINESIOLOGY.** A study of special topics or problems of interest in Kinesiology. Areas to be studied are announced in advance.
- 48-563** **SPORT PSYCHOLOGY.** The purpose of this course is to introduce basic concepts associated with the field of sport psychology such as concentration, anxiety control, relaxation techniques, focus and team work. In addition, students will become familiar with current research in sport psychology. (ScS)
- 48-573** **SPORT LAW AND ETHICS.** This class is designed to present students with the opportunity to learn various legal concepts and how they apply to the sports industry. Actions and decisions in sport/athletics are compared to the known principles and rules of sports as set forth by their governing bodies. (ScS)
- 48-583** **FINANCE OF SPORT AND HEALTH RELATED INDUSTRIES.** This course is designed to expose students to various methods and considerations related to providing a sound financial basis for the sport, fitness and health industries. Emphasis is placed on areas of public and private fundraising, economic impact analysis and corporate sponsorships.
- 48-704** **PHYSIOLOGY OF EXERCISE.** Study of physiological responses and adaptations made to the challenge of exercise with an emphasis on cardiovascular and neuromuscular systems. Lab required. Prerequisites: Allied Health Education 46-244 and Kinesiology 48-313, or permission of instructor. (NSL)
- 48-714** **BIOMECHANICS.** Study of basic anatomical and mechanical principles applied to human movement. Emphasis is placed on kinematic and kinetic concepts and the use of computerized movement analysis. Lab required. Prerequisites: Allied Health Education 46-244 and Kinesiology 48-313 or permission of instructor. (NSL)
- 48-813** **RESEARCH IN KINESIOLOGY.** Laboratory or field-based research course designed to provide a hands-on research experience directed toward answering questions related to Kinesiology. Students work directly with a faculty member to develop a research question, perform a literature review, collect and analyze experimental data related to the research question and formally present results of the study. The topic of the course varies with the faculty member leading it. Prerequisites: Kinesiology 48-313, 423, 704, 714.
- 48-822** **EXERCISE PRESCRIPTION.** Study of current practices related to fitness assessment and exercise prescription. Emphasis is placed on the collection of data from fitness testing and the design of personalized exercise programs. This course consists of a one-hour lecture session and a two-hour lab session. Prerequisites: Kinesiology 48-403 and 704.

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- 48-001, 002, 003, 004** **SELECTED TOPICS.** May be repeated with change in topic.
- 48-301, 302, 303, 304** **SELECTED TOPICS.** May be repeated with change of topic. Prerequisite: Permission of department chair.

- 48-901, 902, 903, 904** TUTORIAL.
- 48-941, 942, 943, 944** **INTERNSHIP IN KINESIOLOGY.** This is a career related course arranged to meet the interests of the student. Students must obtain approval of the supervising faculty member the semester prior to taking this course. Must be taken Pass/D/F.
- 48-951, 952, 953, 954** **INDEPENDENT STUDY IN KINESIOLOGY.** May be repeated with change in content. Students must obtain approval of the supervising faculty member the semester prior to taking this course.
- 48-983** **HONORS.** By invitation only.

#### Allied Health Education (AHE)

- 46-244** **HUMAN ANATOMY.** Study of the structure and function of the human muscular, skeletal, nervous, cardiopulmonary and other major organ systems. This course is specifically designed for students majoring and minoring in Kinesiology and for students planning careers in health related fields. (NSL)
- 46-443** **NUTRITION FOR HUMAN PERFORMANCE AND HEALTH.** This course examines the role of nutrition in maximizing human physical performance and promoting health. Students learn the basic nutritional concepts necessary for optimizing physical performance and adaptations to training in competitive athletes, and for enhancing health in the physically active. (NS)

**46-001, 002, 003, 004** **SELECTED TOPICS.** May be repeated with change in topic.

**46-301, 302, 303, 304** **SELECTED TOPICS.** May be repeated with change in topic.

**46-901, 902, 903, 904** TUTORIAL.

**46-941, 942, 943, 944** **INTERNSHIP IN ALLIED HEALTH.**

**46-951, 952, 953, 954** **INDEPENDENT STUDY.**

#### Fitness and Recreational Activity (FRA)

- 47-011** **KICKBOXING.** Basic kickboxing movements and skills combined in aerobic routines. Must be taken Pass/D/F.
- 47-021** **TENNIS.** Rules, fundamentals, and/or appropriate level techniques, and recreational skills for all levels of skills for tennis players. Must be taken Pass/D/F.
- 47-031** **BOWLING.** Rules, fundamentals, and/or appropriate level techniques, and recreational skills for all levels of skills for bowlers. Lab fee required. Must be taken Pass/D/F.
- 47-041** **DISC SPORTS.** Rules, fundamentals, strategies, and recreational skills in Ultimate Frisbee and Frisbee golf. Must be taken Pass/D/F.
- 47-051** **GOLF.** Rules, fundamentals and/or appropriate level techniques, and skill development for all levels of skill. Lab fee required. Must be taken Pass/D/F.
- 47-061** **OUTDOOR RECREATION.** Course in special topics of outdoor recreation. Topics will vary and can include fishing, fly fishing, skeet shooting and other outdoor recreational sports. Lab fee may be required. Must be taken Pass/D/F.
- 47-071** **ROCK CLIMBING.** Course includes instruction in basic rock climbing skills including harnessing, foot and hand holds. Two weekend field trips for rock climbing are required. Lab fee required. Must be taken Pass/D/F.
- 47-081** **YOGA.** Course includes instruction to basic Hatha Yoga techniques. A mat is required. Must be taken Pass/D/F.
- 47-091** **FENCING.** Development of knowledge, skills, strategies and equipment used in the ancient art of sword play. Emphasis will be placed on foil fencing. Lab fee required. Must be taken Pass/D/F.
- 47-101** **SWIMMING (LEVELS I-IV).** Development of basic skills and various strokes. Course progresses from water exploration to stroke development. Strokes developed (in whole or parts) are elementary back, crawl (back/front), breast and

- side. American Red Cross Certification is possible upon successful completion of the course. Must be taken Pass/D/F.
- 47-111 JOG FOR FITNESS.** Course includes the basics needed to enjoy the benefits of jogging/running to obtain aerobic fitness. Must be taken Pass/D/F.
- 47-121 RACQUETBALL.** Rules, fundamentals, and/or appropriate level techniques, and recreational skills for all levels of racquetball players. Must be taken Pass/D/F.
- 47-131 HANDBALL.** Rules, fundamentals, and/or appropriate level techniques, and recreational skills for all levels of handball players. Must be taken Pass/D/F.
- 47-141 MARTIAL ARTS.** Beginning Tae Kwon Do/Karate or Beginning Hap kido/Judo and/or advanced levels of either are offered on a rotating basis. Each is studied with regard to the history, customs, skills/techniques and unique features of the specific martial art. Must be taken Pass/D/F.
- 47-151 BENCH STEP.** Evaluation and improvement of personal physical fitness and movement capacity through aerobic exercise routines, on and around benches. Must be taken Pass/D/F.
- 47-161 WEIGHT TRAINING.** Teaches safe and effective techniques for weight training at all levels. Provides a background of information concerning techniques for muscle and strength development utilizing conventional free weight exercise coupled with exercise machines. Must be taken Pass/D/F.
- 47-171 SWIM FOR FITNESS AND EXERCISE.** Evaluation and improvement of personal physical fitness and movement capacity through lap swimming and aquatic activities. Must be taken Pass/D/F.
- 47-181 CYCLING.** Course in recreational cycling, touring and techniques of racing. Will include cycle touring field trips in the surrounding area. Must be taken Pass/D/F.
- 47-191 FITNESS FOR WOMEN.** A special fitness class meant to address the specific fitness concerns facing women today. Areas explored include strength, cardiovascular, diet and general health as related to an active life style. Must be taken Pass/D/F.
- 47-201 SWIMMING (LEVELS V–VII).** Course involves refinement of strokes, improving skill proficiency, and developing skills such as turns and water safety skills. American Red Cross certification is possible upon successful completion of course. Prerequisite: Fitness and Recreational Activity 47-101 or permission of instructor. Must be taken Pass/D/F.
- 47-211 INTERMEDIATE/ADVANCED KICKBOXING.** Methods and techniques of executing advanced skills in the kickboxing area including kicks and hand movements versus pads. Prerequisite: Fitness and Recreational Activity 47-011 or permission of instructor. Must be taken Pass/D/F.
- 47-221 INTERMEDIATE/ADVANCED TENNIS.** Advanced skills and strategies for experienced tennis players. Prerequisite: Fitness and Recreational Activity 47-021 or permission of instructor. Must be taken Pass/D/F.
- 47-231 INTERMEDIATE/ADVANCED HANDBALL & RACQUETBALL.** Advanced skills and strategies for experienced handball and/or racquetball players. Prerequisite: Fitness and Recreational Activity 47-121 or 131 or permission of instructor. Must be taken Pass/D/F.
- 47-251 INTERMEDIATE/ADVANCED GOLF.** Advanced skills and course management strategies for experienced golfers. Prerequisite: Fitness and Recreational Activity 47-051 or permission of instructor. Lab fee required. Must be taken Pass/D/F.
- 47-281 INTERMEDIATE/ADVANCED CYCLING.** Advanced skills, theories and distances for experienced cyclists. Prerequisite: Fitness and Recreational Activity 47-181 or permission of instructor. Lab fee may be required. Must be taken Pass/D/F.
- 47-291 ADVANCED SPECIAL FITNESS AND RECREATIONAL ACTIVITIES.** Under this course number, advanced level special FRA courses may be offered from time to time as the situation or need arises. Must be taken Pass/D/F.
- 47-311 LIFEGUARD TRAINING.** Qualifications, responsibilities, skills and training of lifeguards. Swimming rescues of drowning victims and recognition of common

hazards associated with various types of aquatic facilities will be emphasized. Course includes certifications in adult CPR and First Aid. Prerequisites: Fitness and Recreational Activity 47-201 or permission of instructor. Lab fee required. Must be taken Pass/D/F.

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- 47-001, 002**      **ADAPTED RECREATIONAL/FITNESS ACTIVITIES AND SELECTED TOPICS.** A course for students who, for various reasons, need individual attention concerning physical activity. This course may be repeated for credit. Consent of instructor is required. Special topics FRA courses may be offered under this number. Lab fee may be required. Must be taken Pass/D/F.
- 47-301, 302**      **SELECTED TOPICS.** May be repeated with change in topic. May require a lab fee. Must be taken Pass/D/F.
- 47-901, 902**      **TUTORIAL.**

## LATIN AMERICAN STUDIES (LAS) *Interdisciplinary Program*

Daniel Castro, PhD, Program Chair and Professor of History

Latin American Studies (LAS) at Southwestern University is an interdisciplinary program designed to increase the student's understanding of that alluring region known as Latin America and the Caribbean. The interdisciplinary scope of the program ranges from the study of history and politics to literature and art, from the Patagonia to the United States, and from the pre-colonial to the post-colonial eras. The Latin American Studies program is the intellectual home for an interdisciplinary community of scholars, students and visitors, who support a wide spectrum of interests, across the curriculum and across campus.

Students will familiarize themselves with the areas of Latin American and the Caribbean through a mixture of academic study, specialized training and study abroad and discussions with affiliated faculty and Latin Americanist visitors. The program requires developing a high degree of fluency in Spanish. By encouraging the pursuit of an interdisciplinary program of studies, the program attempts to provide a greater understanding of similarities and differences between different nations within Latin America. Another aim of the program is to provide students with a greater understanding of the differences and interconnection between the region and the rest of the world. Students may pursue a major or minor in Latin American Studies.

To major in Latin American Studies, students must complete 33-35 hours of course work, which include a capstone as well as courses in Latin American history, literature, social sciences, arts and culture and philosophy. The LAS capstone experience is linked to existing capstone courses in different departments. Regardless of the department where the capstone is taken, it is required that the LAS student's final project will concentrate on topics pertaining to Latin America. Capstones must be approved by the Chair of the Latin American Studies Program. When capstone courses are unavailable in the discipline required or desired by the student, an independent study, approved by the Chair, will count as a capstone. In addition to the introductory course and the capstone, students are required to have the equivalent of six semesters of Spanish language courses (two semesters above the University requirement), and a study abroad experience in Latin America or Spain is strongly recommended. In addition to the core requirements, students are expected to take courses from as many disciplines as possible.

**Major in Latin American Studies:** 33-35 semester hours, including History 16-363 or 373; two courses from 16-333, 653, 663, 673; two courses from Spanish 15-233, 343, 423, 523, 613, 623; five additional Latin American Studies courses from Anthropology 35-223, 324, 343, Art History 71-303 (Major Currents in Latin American Art), 393, Communication Studies 75-653, Philosophy 18-283, Political Science 32-614, 753, Sociology 34-614, or other courses approved by the chair of

the Latin American Studies Program; three hour Capstone experience as described above.

**Minor in Latin American Studies:** 18-20 semester hours, including History 16-363 or 373; 15 additional hours of Latin American Studies courses above the introductory level, selected from those courses available for the major.

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- 06-001, 002, 003, 004** **SELECTED TOPICS.** May be repeated with change in topic.  
**06-301, 302, 303, 304** **SELECTED TOPICS.** May be repeated with change in topic.  
**06-901, 902, 903, 904** **TUTORIAL.**  
**06-941, 942, 943, 944** **INTERNSHIP IN LATIN AMERICAN STUDIES.** Must be taken Pass/D/F.  
**06-951, 952, 953, 954** **INDEPENDENT STUDY.** May be repeated with change in content.  
**06-983** **HONORS.** By invitation only.

## MATHEMATICS AND COMPUTER SCIENCE DEPARTMENT

### *Division of Natural Sciences*

Professor Kendall C. Richards, PhD, Chair  
Professor John B. Chapman, PhD  
Professor Walter M. Potter, PhD  
Associate Professor Therese N. Shelton, PhD  
Associate Professor Suzanne Fox Buchele, PhD  
Associate Professor Richard T. Denman, PhD  
Associate Professor Barbara Boucher Owens, PhD  
Associate Professor Gary H. Richter, PhD  
Assistant Professor Fumiko Futamura, PhD  
Assistant Professor Alison Marr, PhD  
Assistant Professor Linda DiLullo, PhD (part-time)  
Assistant Professor Wanda O'Connor, PhD (part-time)

Mathematics and Computer Science courses help students develop concise and logical patterns of thinking and encourage independent and creative work. The department seeks to develop in students an understanding of mathematical models and a facility with problem-solving techniques.

The department offers the following three majors leading to either the Bachelor of Science or the Bachelor of Arts degree: Mathematics, Computer Science and Computational Mathematics. The Computational Mathematics major is designed to provide students with a foundational mastery of the interdependent disciplines of Mathematics and Computer Science. The curriculum is a blend of core courses intended to provide a broad knowledge base while maintaining depth in both subject areas. The department also offers a minor in Mathematics and in Computer Science. Each student's major program must be determined in consultation with the student's academic adviser; the program should reflect the student's personal needs and goals. All majors in the department are required to successfully complete the designated senior seminar in their respective majors or to carry out a department-approved senior project to satisfy the capstone experience requirement. Note: A minimum grade of C- must be earned in any course if it is to count as a prerequisite for a subsequent Mathematics or Computer Science course.

**Major in Mathematics (BA or BS):** 33 semester hours, including Mathematics 52-154, 253, 353, 673, 683, 753, 853, 893 (Capstone); one from 52-693, 763, 863, 883; six additional hours of Mathematics at the 300-level or above.

**Required supporting course in the Mathematics major:** Computer Science 54-183, normally to be completed no later than the sophomore year. Note that this is a prerequisite for Mathematics 52-683. Those without programming experience must first take Computer Science 54-143.

**Minor in Mathematics:** 18 semester hours, including Mathematics 52-154, 253, 353, 673; six additional hours of Mathematics above the introductory level.

**Major in Computer Science (BA or BS):** 33 semester hours, including Computer Science 54-183, 283, 383, 393, 453, 473, 533, 643, 893 (Capstone); six additional hours of Computer Science at the 300-level or above.

**Required supporting courses in the Computer Science major:** 10 semester hours, including Mathematics 52-154, 253, 673.

**Minor in Computer Science:** 18 semester hours of Computer Science, 12 hours of which must be above the introductory level.

**Major in Computational Mathematics (BA or BS):** 46 semester hours, including Computer Science 54-183, 283, 383, 393, 453, 473, 643; Mathematics 52-154, 253, 353, 523, 673, 753; Mathematics 52-683 or 853; Mathematics 52-893 or Computer Science 54-893 (Capstone).

See the Education Department for information regarding teacher certification in mathematics and computer science.

## Mathematics (MAT)

**52-103** **MATHEMATICAL CONCEPTS.** An introduction to some of the important ideas in mathematics illustrating the scope and spirit of mathematics and emphasizing the role that mathematics plays in society from a historical point of view. Topics include number systems, algebra, geometry and measurement. This course is designed for those seeking EC-4 or 4-8 teacher certification, however the course is suitable for a general audience with a broad spectrum of backgrounds and abilities. May not be used for Mathematics major or minor. (Each semester) (NS)

**52-113** **INTRODUCTION TO STATISTICS.** Designed to provide students in the social and biological sciences with the skills necessary to perform elementary statistical analysis. Descriptive measures, probability, sampling theory, random variables, binomial and normal distributions, estimation and hypothesis testing, analysis of variance, regression and correlation, nonparametric methods. May not be used for Mathematics major or minor. (Each semester) (NS)

**52-123** **ELEMENTARY FUNCTION THEORY.** Relations, functions and general properties of functions. Some of the elementary functions considered are polynomials, rational functions, exponentials, logarithms, and trigonometric functions. An objective of this course is to prepare students for Calculus I. May not be used for mathematics major or minor. (Each semester) (NS)

**52-154** **CALCULUS I.** Functions and graphs; derivatives, applications of differentiation. Exponential, logarithmic and trigonometric functions, integration, applications of integration. The course includes a laboratory component designed to explore applications and to enhance conceptualization. Prerequisite: Departmental approval. (Each semester) (NS)

**52-253** **CALCULUS II.** Numerical integration, methods of integration, applications of the definite integral, improper integrals, sequences and series, Taylor's Formula and approximation, polar coordinates. Prerequisite: Mathematics 52-154. (Each semester) (NS)

**52-353** **CALCULUS III.** A course in multivariable calculus. Vectors, vector functions, and curves. Functions of several variables, partial differentiation, multiple integration, applications of partial differentiation and of multiple integrals. Vector calculus, line integrals, Green's Theorem, surface integrals. Prerequisite: Mathematics 52-253. (Each semester) (NS)

**52-383** **DISCRETE MATHEMATICS.** See Computer Science 54-383. (Fall)

**52-403** **GEOMETRY.** Topics to be selected from synthetic geometry, analytic geometry, projective geometry, Euclidean and non-Euclidean geometry. Prerequisite:

- Permission of instructor. (Spring) (NS)
- 52-523** **INTRODUCTION TO NUMERICAL ANALYSIS.** Emphasizes the derivations and applications of numerical techniques most frequently used by scientists: interpolation, approximation, numerical differentiation and integration, zeroes of functions and solution of linear systems. Prerequisites: Mathematics 52-253, 673, and either Computer Science 54-143 or 183. Also Computer Science 54-523. (Fall, odd years) (NS)
- 52-573** **PROBABILITY.** Random variables and distributions, sequences of random variables and stochastic processes. Prerequisite: Mathematics 52-253. (Spring, odd years) (NS)
- 52-673** **LINEAR ALGEBRA.** Linear equations and matrices, vector spaces, linear mappings, determinants, quadratic forms, vector products, groups of symmetries. Prerequisite: Mathematics 52-253 or permission of instructor. (Each semester) (NS)
- 52-683** **ALGEBRAIC STRUCTURES I.** Sets, relations, functions, group theory, ring theory. Prerequisite: Computer Science 54-183 and Mathematics 52-673 or permission of instructor. (Fall) (NS)
- 52-693** **ALGEBRAIC STRUCTURES II.** Vector spaces, algebraic field theory. Prerequisite: Mathematics 52-683. (Spring, odd years) (NS)
- 52-753** **ELEMENTARY DIFFERENTIAL EQUATIONS.** Topics include first order differential equations, separable equations, exact equations, linear differential equations of order  $n > 1$ , homogeneous equations with constant coefficients, non-homogeneous equations and the method of undetermined coefficients, variation of parameters, power series solutions and applications. Prerequisite: Mathematics 52-673, as well as co-requisite or prerequisite of Mathematics 52-353, or permission of instructor. (Fall) (NS)
- 52-763** **INTERMEDIATE DIFFERENTIAL EQUATIONS.** Topics include the Laplace transform, linear systems, numerical solutions and nonlinear systems. An introduction to partial differential equations may also be included. Prerequisites: Mathematics 52-353 or 753, or permission of instructor. (Spring, even years) (NS)
- 52-843** **SEMINAR IN SPECIAL TOPICS.** A limited enrollment seminar in a major area of mathematics not generally covered in other courses. Topics may include but are not limited to advanced analysis, combinatorics, logic, history of mathematics. May be repeated for credit as topics vary. Prerequisite: nine hours at the 200 level or above and permission of instructor. (NS)
- 52-853** **INTRODUCTORY ANALYSIS.** Topics may include completeness, topology of the reals, sequences, limits and continuity, differentiation, integration, infinite series, and sequences and series of functions. A rigorous approach to learning and writing proofs is emphasized. Prerequisite: Mathematics 52-353 or permission of instructor. (Spring) (NS)
- 52-863** **COMPLEX ANALYSIS.** Algebra and geometry of complex numbers. Analytic and harmonic functions, series, contour integration, conformal maps and transformations. Prerequisite: Mathematics 52-353 or permission of instructor. (Fall, even years) (NS)
- 52-883** **TOPOLOGY.** Topology of the line and plane, limit points, open sets, closed sets, connectedness, compactness. Continuous functions, homeomorphisms. Prerequisite: Mathematics 52-253. (Fall, odd years) (NS)
- 52-893** **SENIOR SEMINAR IN MATHEMATICAL MODELING.** This course will fulfill the capstone requirement in mathematics. Since it serves as a culmination of the student's undergraduate mathematical experience, a balance is sought between application and theory. Topics may include linear and non-linear differential and difference equations and stochastic methods. Topics may vary with the instructor. Applications will be taken from the social and natural sciences. A major semester project is expected from each student, as well as significant class participation and presentation. Prerequisites: 21 hours in the major at the 200-level or above, three

hours of Computer Science at the 100-level or above, and permission of instructor.  
(Fall) (NS)

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- 52-001, 002, 003, 004** **SELECTED TOPICS.** May be repeated with change in topic.  
**52-301, 302, 303, 304** **SELECTED TOPICS.** May be repeated with change in topic. Prerequisite:  
Permission of instructor.  
**52-901, 902, 903, 904** **TUTORIAL.**  
**52-951, 952, 953, 954** **INDEPENDENT STUDY.**  
**52-983** **HONORS.** By invitation only.

### Computer Science (CSC)

- 54-143** **INTRODUCTION TO PROGRAMMING.** An introduction to computer programming in an object-oriented style for practical application. Topics include class definition, basic program constructs, basic data structures, interactive user interfaces and encapsulation. This course does not fulfill the Area One Mathematics requirement. (NS)
- 54-183** **COMPUTER SCIENCE I.** Computer programming in an object-oriented style. Topics include primitive types and operations, assignment, selection, iteration, arrays, classes, methods, recursion, encapsulation, type extension, inheritance and reasoning about programs. Prerequisite: Previous programming with departmental approval, or Computer Science 54-143. (Each semester) (NS)
- 54-191** **SEMINAR IN ELEMENTARY SOFTWARE ENGINEERING.** Project-based (one credit hour) course emphasizing current tools and methodologies. Students may work in groups on projects chosen in conjunction with the instructor. Prerequisite: Permission of the instructor. This course may be repeated for credit. (NS)
- 54-283** **COMPUTER SCIENCE II.** A continuation of 54-183 Computer Science I, with an emphasis on abstract data objects such as lists, stacks, queues, trees and graphs. Topics include algorithms for searching, sorting, traversing, inserting and deleting, and reasoning about these algorithms. Prerequisite: Computer Science 54-183 or permission of instructor. (Each semester) (NS)
- 54-291** **RAPID APPLICATION DEVELOPMENT.** This course will develop skills needed for the rapid development of programming solutions to problem specifications. This course (or, prior enrollment in this course) is required for students wishing to attend the South Central Programming Contest. This course may be repeated for credit. May not be counted toward the major or minor. Prerequisite: Computer Science 54-183. (Fall) (NS)
- 54-383** **DISCRETE MATHEMATICS.** Concepts for modeling discrete phenomena. Topics include: logic, set theory, order theory and lattices, graphs, induction and recurrence relations. Prerequisites: Mathematics 52-253 and Computer Science 54-283, or permission of instructor. Also Mathematics 52-383. (Fall) (NS)
- 54-393** **COMPUTER ORGANIZATION.** Computer architecture, internal representation of data, assembly language programming, subroutines and parameter passing, design of machine language instruction sets, bus structure, datapath and command interpreter. Prerequisite: Computer Science 54-283 or permission of instructor. (Fall) (NS)
- 54-453** **ALGORITHMS.** Algorithms for finding paths and spanning trees in graphs, analysis of algorithms for sorting, searching, and merging files, complexity of algorithms, hashing methods. Prerequisite: Computer Science 54-283 or permission

- of instructor. (Spring) (NS)
- 54-473** **PROGRAMMING LANGUAGES.** Principles and practice in the design and implementation of imperative, functional and object-oriented programming languages. Prerequisite: Computer Science 54-393 or permission of instructor. (Fall) (NS)
- 54-513** **DATABASE MANAGEMENT.** Logical and physical organization of data in conventional database systems. Topics include functional dependencies and normal form, relational and other data models, indexing and concurrency control. Prerequisite: Computer Science 54-283 or permission of instructor. (Fall, odd years) (NS)
- 54-523** **INTRODUCTION TO NUMERICAL ANALYSIS.** See Mathematics 52-523. (Fall, odd years) (NS)
- 54-533** **FUNCTIONAL PROGRAMMING.** Introduction to functional programming. Topics include functions, lists, types, induction and recursion, pattern matching, infinite lists and trees. A functional programming language such as Lisp, ML or Gofer will be used in the course. There will be a large number of programming projects. Prerequisite: Computer Science 54-183 or permission of instructor. (Spring) (NS)
- 54-553** **COMPUTER GRAPHICS.** Introduction to 2D and 3D graphics. Topics include: display hardware, graphics primitives and data structures, geometric transformations and modeling, 2D display algorithms, 3D viewing, clipping, hidden line and surface removal, illumination and shading. Prerequisite: Mathematics 52-673, Computer Science 54-393 and 453, or permission of instructor. (Spring) (NS)
- 54-573** **ARTIFICIAL INTELLIGENCE.** Introduction to a functional programming language; study of tree and graph searching, heuristics, knowledge representation schemes, predicate logic, resolution theory, natural language and vision processing and expert systems. Prerequisite: Computer Science 54-283 and 533, or permission of instructor. (Fall, even years) (NS)
- 54-643** **COMPUTER SYSTEMS.** Introduction to operating systems and computer networks. Process control and scheduling, threads, concurrency, memory management and virtual memory, network protocol layers, packets and routing and network security. Prerequisite: Computer Science 54-393. (Spring) (NS)
- 54-683** **THEORY OF COMPUTATION.** Finite state systems, finite automata, formal language theory. Context-free grammars, regular expressions, pushdown automata, Turing machines, decidability, switching theory. Prerequisite: Mathematics or Computer Science 52/54-383. (Fall, even years) (NS)
- 54-843** **SEMINAR IN SPECIAL TOPICS.** A limited enrollment seminar not generally covered in other courses. May be repeated for credit as topics vary. Prerequisites: nine hours of 200-level courses or higher and permission of instructor. (NS)
- 54-893** **SENIOR SEMINAR IN SOFTWARE ENGINEERING.** Introduction to techniques and theories for the development of large software systems. This course will fulfill the capstone requirement in Computer Science. Topics include: software design and quality, ethics, professional issues, and the study of current software engineering trends, theory and practice. A major semester project is expected from each student, as well as significant class participation and presentation. Prerequisite: 21 semester hours in the major at the 200-level or above including Computer Science 54-383, 453, 473, and permission of instructor. (Spring) (NS)

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- 54-001, 002, 003, 004** **SELECTED TOPICS.** May be repeated with change in topic.
- 54-301, 302, 303, 304** **SELECTED TOPICS.** May be repeated with change in topic. Prerequisite: Permission of instructor.

**54-901, 902, 903, 904** TUTORIAL.  
**54-951, 952, 953, 954** INDEPENDENT STUDY. May be repeated with change in content.  
**54-983** HONORS. By invitation only.

## MODERN LANGUAGES AND LITERATURES DEPARTMENT CHINESE, FRENCH AND GERMAN PROGRAMS

### *Division of Humanities*

Associate Professor Glenda Warren Carl, PhD (French, Latin), Chair

Associate Professor Erika Berroth, PhD (German)

Assistant Professor Francis Mathieu, PhD (French)

Assistant Professor Aaron Prevots, PhD (French)

Assistant Professor Carl Robertson, PhD (Chinese)

Visiting Brown Junior Scholar Faye Stewart, MA (German)

Assistant Professor Patricia Schiaffini, PhD (Chinese) (part-time)

Our mission is to provide students with the tools and opportunities to become competent, confident, culturally literate citizens of our increasingly global society. We work closely with Southwestern's Language Learning Center (LLC) to develop and deploy technologies that will enhance our students' linguistic, literary and cultural learning.

Majors are expected to acquire a strong grasp of language and a working general knowledge of literature, culture and film. The capstone experience, an integrative project in which students undertake significant writing and research in the target language, reinforces these goals relative to the knowledge, insights and perspectives gained in the undergraduate years. Together with advanced courses, the capstone provides a solid grounding that prepares students as much for graduate work as for sophisticated original projects in many fields. The capstone covers broad aspects of the discipline and culminates in a formal oral presentation.

Southwestern administers placement examinations in Chinese, French, German, Greek, Latin and Spanish. Students with a high school background in language should place high enough to receive exemption from a beginning level course. Credit hours are not awarded. Students are not required to have studied a language in high school before starting language study at Southwestern. In fact, many enjoy studying a language not studied in high school. In French, German and Spanish, those with some experience who place into the second or fourth semester often take a conversation class in the fall in order to maintain their skills and get a strong head start on majoring or minoring.

Students taking language to fulfill the language requirement for their degrees are expected to attain proficiency in oral and written expression, listening comprehension and reading. These goals are usually attained at the end of a fourth semester course at the college level which is why students remain in the same language through the intermediate level. Students may take a proficiency test at the level required for their degree program or complete with a passing grade the specified semester requirement.

Unless they have special credits, such as a high score on an Advanced Placement exam, all students entering Southwestern take a placement test for foreign language. Students can receive exemption if their placement scores so warrant, and they will be advised as to which course they should take in that same language, based on the results of the placement exam; in the case of Classical languages, additional information from high school programs will be used to help establish placement. Students may take the beginning course (-014) in a different language if they choose not to pursue the language taken in high school. Because language study is sequential, students begin language study at the level of placement, and take next courses in the sequence in order (i.e. 014, 024, 113, 123) and must earn a grade of C- or better prior to enrolling in the next course in the sequence. The courses may not be taken concurrently. Placement tests may be taken in more than one foreign language. International students whose native tongue is not English may satisfy the foreign language requirement by scoring at least 570

(paper) or 230 (computer) on the TOEFL exam.

Students who major or minor in Chinese, French or German and who have placed into the fourth semester or have placed out of the foreign language requirement may take a departmental exam for credit. They may earn up to six semester hours of lower-level credit which is equivalent to credit for 113 or the 113-123 sequence. Credit will be awarded upon completion of all other major or minor requirements. Under no circumstances may an individual earn credit for more than two courses in a language by AP or placement examinations.

**Minor in Chinese:** 18 semester hours, including Chinese 22-313, 323; 12 additional hours of Chinese, six hours of which must be above the introductory level.

**Major in French:** 30 semester hours, including French 11-313, 333, 353, 933 (Capstone); 18 additional hours of French, six hours of which must be above the introductory level.

**Minor in French:** 18 semester hours, including French 11-313, 353; 12 additional hours of French, six hours of which must be above the introductory level.

**Major in German:** 30 semester hours, including German 12-333, 343, 353, 513, 933 (Capstone); 15 additional hours of German, six hours of which must be above the introductory level.

**Minor in German:** 18 semester hours, including German 12-333, 343; 12 additional hours of German, six hours of which must be above the introductory level.

See the Education Department for information regarding teacher certification in French.

#### Other Languages (FLN)

**21-144, 154** **OTHER LANGUAGES.** Studies of languages other than those offered by the Modern Languages and Literatures Department on a regular basis. Credit may only be earned with special, prior approval of the department and may not otherwise be used to fulfill the University language requirement.

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**21-001, 002, 003, 004** **SELECTED TOPICS.** May be repeated with change in topic.

**21-301, 302, 303, 304** **SELECTED TOPICS.** May be repeated with change in topic.

**21-901, 902, 903, 904** **TUTORIAL.**

**21-941, 942, 943, 944** **ACADEMIC INTERNSHIP.** Must be taken Pass/D/F.

**21-951, 952, 953, 954** **INDEPENDENT STUDY.**

#### Chinese (CHI)

**22-014, 024** **BEGINNING CHINESE I & II.** A two-semester course introducing pronunciation, basic grammatical structures, the involved and fascinating world of Chinese writing, and contexts for practice. This course prepares the student for basic functions in a Chinese language environment.

**22-113** **CHINESE III.** This course strengthens reading and writing skills, develops grammatical facility, and begins an increased focus on oral and written communication for fundamental contexts. The cultural foundations of Chinese language are a core feature of this course. Prerequisite: Chinese 22-024.

**22-123** **CHINESE IV.** This course leads students into further intermediate capacities, including opportunities to negotiate, persuade, and advocate. Students begin to engage in contemporary issues and manage literary and functional texts. Prerequisite: Chinese 22-113.

**22-313** **CHINESE IN CONTEMPORARY CONTEXT.** This course continues to build fundamental familiarity with written and spoken Chinese. Students acquire skills for learning and living in China, with an emphasis on speaking, writing for expression, and communication and exposure to significant literary texts. Prerequisite: Chinese

- 22-123 or equivalent. **(H)**
- 22-323** **READING/SPEAKING MODERN CHINESE.** This course continues to develop students' command of written Chinese with an additional focus on speaking. Proficiency in the language leads to further exploration of China's cultural foundations and contemporary issues. Prerequisite: Chinese 22-123 or equivalent. **(H)**
- 22-373** **CHINESE LITERATURE IN TRANSLATION I.** This course is an introduction to Chinese literature from the earliest times to the Tang dynasty (roughly to the 10th century), which period includes the foundational texts of the Chinese tradition. This course develops skills in writing, particularly about literature, and engages in problems in translation. Taught in English. (Spring, alternate years) **(H) (IP)**
- 22-383** **CHINESE LITERATURE IN TRANSLATION II.** This is an introductory course on Chinese literature from roughly the 10th century (Song dynasty) to the present. This course will pivot on the transition to modernism from a highly developed literary tradition. The course is hence comparative in nature, including questions of translation, and develops skills in writing as well as writing about literature. Taught in English. (Spring, alternate years) **(H) (IP)**
- 22-393** **CHINESE CALLIGRAPHY AND CULTURE.** This course approaches the cultural purpose and aesthetic complexity of the art of Chinese writing. The primary focus of the course is using brush and ink, but with a critical understanding of the place calligraphy holds in China's literary, social, political, and aesthetic history. Taught in English. (Summer) **(H) (IP)**
- 22-001, 002, 003, 004** **SELECTED TOPICS.** May be repeated with change in topic.
- 22-301, 302, 303, 304** **SELECTED TOPICS.** May be repeated with change in topic. Prerequisite: Chinese 22-123 or the equivalent.
- 22-901, 902, 903, 904** **TUTORIAL.**
- 22-941, 942, 943, 944** **ACADEMIC INTERNSHIP.** Must be taken Pass/D/F.
- 22-951, 952, 953, 954** **INDEPENDENT STUDY.** May be repeated with change in content.

## French (FRE)

All courses are taught in French.

- 11-014** **FRENCH I.** Beginning French I builds skills in listening, speaking, reading and writing. Students will learn to communicate effectively both within personal areas of interest and relative to French and Francophone cultures. The course emphasizes student participation, self-expression and the ability to create with language.
- 11-024** **FRENCH II.** Beginning French II continues the work begun in the introductory semester and increases focus on reading skills and cultural literacy. Prerequisite: French 11-014 with a grade of C- or better, or equivalent placement.
- 11-113** **FRENCH III.** This course combines a comprehensive review and fine-tuning of grammar with readings in literature and culture and expanded vocabulary practice. Prerequisite: French 11-024 with a grade of C- or better, or equivalent placement.
- 11-123** **FRENCH IV.** This course is based on more sophisticated texts in French and asks students to conduct research in areas of personal interest or expertise through individual projects. Prerequisite: French 11-113 with a grade of C- or better, or equivalent placement.
- 11-132** **BEGINNING FRENCH CONVERSATION.** This course is designed to support the development of oral proficiency in the beginning and intermediate sequence. The course is designed as its own entity but appropriate for students wishing to complement other French courses, or to maintain or enhance their speaking and listening skills. Prerequisite: French 11-014 or permission of instructor. (Fall)
- 11-142** **INTERMEDIATE FRENCH CONVERSATION.** This course is designed to support the development of oral proficiency at the intermediate and advanced levels. The course is designed as its own entity but appropriate for students wishing

to complement French IV and above. Prerequisite: French 11-113 or permission of instructor. (Spring)

- 11-313** **TOPICS IN LITERATURE AND FILM.** A course introducing the critical appreciation of a wide variety of texts, including but not limited to film, poetry, short stories, essays, novellas, novels, diaries, journalism and stories told through music or images. Prerequisite: French 11-123 or equivalent. **(H)**
- 11-333** **COMPOSITION AND CULTURE.** This course is designed to develop advanced oral and written proficiencies and to sharpen students' linguistic facility and accuracy. Prerequisite: French 11-123 or equivalent. **(H)**
- 11-353** **CONTEMPORARY FRENCH CULTURE.** This course is designed to develop advanced cultural proficiencies, and it explores French and/or Francophone identities as voiced in authentic materials (text, music, images, video, films). May be repeated with change in content. Prerequisite: French 11-123 or equivalent. French 11-333 recommended. **(H) (IP)**
- 11-453** **WOMEN WRITERS IN FRENCH.** A study of significant works by women writers from France and the Francophone world. Prerequisites: French 11-313, 333, or 353. Also Feminist Studies 04-453. **(H)**
- 11-503** **STUDIES IN FRENCH LITERATURE I.** Study of selected texts from the Middle Ages to the Enlightenment, as related to French social, cultural and literary history. Prerequisite: French 11-313, 333, or 353. **(H)**
- 11-513** **STUDIES IN FRENCH LITERATURE II.** Study of selected texts from the modern period, as related to French social, cultural and literary history. Prerequisite: French 11-313, 333, or 353. **(H)**
- 11-603** **TOPICS IN LITERATURE AND CULTURE.** This course may focus on either single authors, movements, or themes. Offerings may include Literature and Culture of the Antilles, Paris/Cities/Parisians, Writing/Identity/Difference, and Writing Places: *Literature et lieux*. May be repeated with change in topic. Prerequisite: French 11-313, 333, or 353. **(H)**
- 11-613** **TEXTS/CONTEXTS.** This course focuses on situating texts relative to specific periods or field of study. May be repeated with change in content. Prerequisite: French 11-313, 333, or 353. **(H)**
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- 11-001, 002, 003, 004** **SELECTED TOPICS.** May be repeated with change in topic.
- 11-301, 302, 303, 304** **SELECTED TOPICS.** May be repeated with change in topic. Prerequisite: French 11-123 or equivalent.
- 11-901, 902, 903, 904** **TUTORIAL.**
- 11-933** **CAPSTONE SEMINAR.** This course fulfills the capstone requirement in French. As an integrative experience, the capstone challenges students to interrelate knowledge, insights and perspectives gained in their French studies and in their undergraduate experience. **(H)**
- 11-941, 942, 943, 944** **ACADEMIC INTERNSHIP.** Must be taken Pass/D/F.
- 11-951, 952, 953, 954** **INDEPENDENT STUDY.** May be repeated with change in content.
- 11-983** **HONORS.** By invitation only.

## German (GER)

All courses are taught in German.

- 12-014, 024** **GERMAN I & II.** Beginning German is a two-semester course which builds the foundation for developing proficiency in speaking, listening, reading and writing in German. Developing cultural literacy and the ability to create with language are integral parts of the learning goals. Students successfully completing German I

and II will be able to use German creatively, to understand and produce text (from personal correspondence to routine public tasks), and to communicate effectively beyond immediate person-centered areas of interest, incorporating broader cultural knowledge. Students will become familiar with authentic materials including audiovisual resources and will develop information literacy on a variety of issues related to German by using resources on the World Wide Web.

- 12-113** **GERMAN III.** Intermediate German combines a comprehensive review and fine-tuning of grammar with readings in literature and culture. Learner-centered activities, projects and discussions develop oral and written proficiency. Students successfully completing German III will have a good understanding of contemporary life in the German-speaking world, will narrate and describe orally and in writing, and will begin to formulate and support opinions. Partner and group work enhances conversational and negotiating skills. Prerequisite: German 12-024 or equivalent.
- 12-123** **GERMAN IV.** Continuation of German III. Students will move from description and narration to formulation of argument and/or hypothesis, evaluation and analysis. Oral presentations and projects on cultural topics are completed individually and in small groups. Students successfully completing German IV will have the tools to read and comprehend sophisticated texts in German related to their areas of interest or expertise. Beyond a general understanding of contemporary life in the German-speaking world, students will develop in-depth knowledge about major current social, political and cultural issues. Prerequisite: German 12-113 or equivalent.
- 12-132** **GERMAN CONVERSATION.** A two-credit course designed to support the development of oral proficiency in the beginning and intermediate sequence. Students will talk about themselves and others, refer to activities and events (narrating in present and past tenses), and discuss occupations, pastimes and the world around them. Authentic materials and audio-visuals will invite comparisons between German and other cultures, build a foundation of cultural literacy, and invite students to become familiar with the German-speaking world. May be repeated, but credit is given only once. Prerequisite: German 12-024 or permission of instructor.
- 12-222** **ADVANCED GERMAN CONVERSATION.** A two-credit course designed to support development of oral proficiency at intermediate and advanced levels. Articulating comparisons, contrasts, causality, imagination and speculation is facilitated in the context of exploring and discussing a wide variety of authentic materials. Students also work on increasing complexity, variety, length, and accuracy of description and narration. May be repeated, but credit is given only once. Prerequisite: German 12-113 or permission of instructor.
- 12-313** **READING GERMAN: TEXT IN CONTEXT.** Introduction to the critical appreciation of a wide variety of texts. Personal stories (e.g. diary), public stories (e.g. journalistic writing), literary stories (poetry, novellas, short stories) and stories told in music and visual images form the textual basis for critical engagement. Formal speaking and writing tasks support the development of linguistic accuracy. Research projects on a variety of texts encourage the development of sensitivity to different contexts of production, publication and reception. Prerequisite: German 12-123 or equivalent. **(H)**
- 12-333** **ORAL AND WRITTEN EXPRESSION.** Intensive work on grammar, composition and conversation based on readings from a variety of genres, including film. Designed to support the development of advanced proficiency, this course invites students to improve their ability to narrate, compare and contrast, to establish causal relationships, and to speculate in speaking and writing, as well as to develop their creative voice in German. Small group exercises help students express their ideas and opinions about the readings. Idiomatic expressions useful in real-life speaking contexts are organized around common communicative functions, and partner exercises provide active practice in mastering grammar and vocabulary. Prerequisite: German 12-123 or equivalent. **(H)**

- 12-343 INTRODUCTION TO GERMAN LITERATURE AND FILM, 20TH CENTURY.** Intensive writing and discussions on selected literary texts and films. Major female and male authors like Kafka, Brecht, Boll, Hesse, Wolf, Bachmann, Aichinger, and Frischmuth offer a variety of short prose forms – short story, surrealist story, parable, anecdote, novella, fairy tale and experimental texts from turn-of-the-century romantic tales to sketches of street life during the 1989 velvet revolution. Contemporary films advance discussions and invite comparisons. Students will implement the critical and argumentative skills developed at the intermediate level, crafting increasingly complex analyses both individually and in small groups. Students are encouraged to develop their own poetic voice in creative writing assignments. Prerequisite: German 12-123 at a minimum. German 12-333 highly recommended. **(H)**
- 12-353 CONTEMPORARY GERMAN CULTURE.** Designed to help students develop a thorough understanding of contemporary German history (1945-present) and culturally relevant issues, this learner-centered course invites students to make connections with other areas of expertise. Content will vary to cover current aspects of culture in the German-speaking world, as well as social and political contexts, e.g. the fall of the Wall, unification and its aftermath, the new Germans, German-American relations, challenges and opportunities of European integration and multiculturalism, reforms in the German education system, etc. Students will practice skills that will enable them to conduct increasingly independent research, and will work on comprehending a variety of authentic materials (film, radio, news, video, Web-based information, native speaker conversation, etc.) Students practice self-expression across a variety of culturally significant topics, and will produce oral and written presentations of various lengths and formats. Prerequisite: German 12-123 or equivalent. German 12-333 highly recommended. Also Environmental Studies 49-653. **(H)**
- 12-453 WOMEN WRITERS IN GERMAN.** Based on readings and discussions on a variety of texts by German women writers from saints and healers of the Middle Ages to contemporary transnational and trans-lingual writers, this course explores issues of gender, race, class, sexuality, religion, age and nation over time and place, highlighting the importance of feminist studies and gender studies to the disciplines of Germanistik and German Studies. Students are encouraged to contribute their expertise on knowledge construction in different disciplinary areas and across languages and cultures. This course invites students to move beyond merely understanding the content of texts to textual analysis and aesthetic increasingly independent and self-reflective language learners, students will begin to develop a repertoire of skills that will serve them in summarizing, interpreting, critiquing, presenting, and substantiating an opinion and argument both orally and in writing. Prerequisite: German 12-313, 333 or 353. Also Feminist Studies 04-443. **(H)**
- 12-503 STUDIES IN GERMAN LITERATURE I.** Study of selected texts from the Middle Ages to the Enlightenment, as related to German social, cultural and literary history. Authors and texts may include magic spells, the *Nibelungenlied*, poetry of courtly love, Martin Luther and the reformation, Kant and Lessing. At the advanced level, emphasis and value is placed on students' responsibility for their own learning, and on identifying and pursuing specific individual learning goals. Depending on individual preparation, students continue to work toward a productive balance between accuracy, fluency and complexity of language use, both orally and in writing. Prerequisite: German 12-313, 333 or 353. **(H)**
- 12-513 STUDIES IN GERMAN LITERATURE II.** Study of selected texts from the modern period, as related to German social, cultural and literary history. Text selections represent a productive balance between tradition and innovation. At the advanced level, emphasis and value is placed on students' responsibility for their own learning, and on identifying and pursuing specific individual learning goals. Depending on individual preparation, students continue to work toward a productive

balance between accuracy, fluency and complexity of language use, both orally and in writing. Prerequisite: German 12-313, 333 or 353. **(H)**

**12-613** **TEXTS/CONTEXTS.** Advanced close readings of texts as they relate to multiple fields of study. Specific topics for a given semester are listed in the course schedule. Topics may include Self and Other in German Literature and Culture, Genius and Madness in German Literature and Film, The Figure of the Artist in German Literature and Film, Memory and Identity, Catastrophe in German Literature and Film and Translingual Writing in German. Intellectual exploration of materials related to the topics is connected with developing multiple literacies. Students continue to enlarge their repertoire of strategies for processing meaning, and practice increasingly sophisticated modes of expression both orally and in writing. May be repeated with a change in content. Prerequisite: German 12-313, 333, or 353. **(H)**

**12-933** **CAPSTONE SEMINAR.** This course fulfills the capstone requirement in German. As an integrative experience, the capstone challenges students to demonstrate their ability to interrelate knowledge, insights and perspectives gained in their German program and their undergraduate experience. Students will work on individual projects while participating substantially in discussions and peer review. Faculty and students will be mentors through the extended process of writing a research paper, from selecting a topic, formulating an outline, researching resources, to bibliography preparation, preparation of several drafts, editing and final submission of a polished paper in German. In a formal oral presentation, students will introduce their projects to the German-speaking public. **(H)**

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**12-001, 002, 003, 004** **SELECTED TOPICS.** May be repeated with change in topic.

**12-301, 302, 303, 304** **SELECTED TOPICS.** May be repeated with change in topic. Prerequisite: German 12-123 or the equivalent.

**12-901, 902, 903, 904** **TUTORIAL.**

**12-941, 942, 943, 944** **ACADEMIC INTERNSHIP.** Must be taken Pass/D/F.

**12-951, 952, 953, 954** **INDEPENDENT STUDY.** May be repeated with change of content.

**12-983** **HONORS.** By invitation only.

## MODERN LANGUAGES AND LITERATURES DEPARTMENT SPANISH PROGRAM

### *Division of Humanities*

Assistant Professor Carlos De Oro, PhD, co-chair

Assistant Professor Catherine Ross, PhD, co-chair

Assistant Professor Joseph Zavala Rivero, PhD, co-chair

Associate Professor William Christensen, PhD

Assistant Professor Abigail Dings, PhD

Assistant Professor Theodore Jobe, PhD

Visiting Assistant Professor Darren Aversa, PhD

Instructor Magdalena Borja Babbitt, MS (part-time)

Southwestern University offers major and minor programs in Spanish. The Spanish major requires a minimum of 30 semester hours, of which at least 24 must be upper level. The minor in Spanish requires a minimum of 21 semester hours, of which at least 15 must be upper level.

Courses taught in the Spanish program at Southwestern University integrate reading, writing,

speaking, listening and cultural understanding. Students in Spanish undertake the shared tasks of oral work coupled with listening comprehension and reading in the context of culture. The shared pedagogy for language acquisition thus goes hand-in-hand with cultural immersion. This linguistic and cultural fluency in Spanish facilitates study abroad. Depending on the student's interests, a student may choose from diverse programs in a number of Spanish speaking countries.

Students of Spanish are prepared for a variety of academic, business and professional careers. Special attention is given to the central importance of modern language study in this age of global awareness and economic interdependence. As we become increasingly international in outlook and are faced with the need to intensify our efforts to communicate and interact with other cultures, Spanish majors find themselves in a strong position to make significant contributions in a variety of fields. Furthermore, the study of modern languages provides a solid liberal arts foundation for any professional career.

Spanish majors are advised to pursue language courses until their proficiency assures successful work in the literary field. They are expected to acquire a general knowledge of the literature and civilization of Spain as well as the Americas. All Spanish majors are strongly urged to include plans for study abroad either during their junior year or through summer programs offered or approved by Southwestern University.

Students planning to do graduate work in languages are advised to have a strong background in analysis and interpretation of literature. Those planning to certify as language teachers must have a thorough background in the structure of the target language.

The capstone experience for Spanish majors consists of either a seminar or a study project stemming from a semester abroad or from an upper level course taken during the senior year. The program is intended to cover broad aspects of the discipline and culminates in an oral presentation.

Southwestern administers placement examinations in Chinese, French, German, Greek, Latin and Spanish. Students with a high school background in language should place high enough to receive exemption from a beginning level course. Credit hours are not awarded. Students are not required to have studied a language in high school before starting language study at Southwestern. In fact, many enjoy studying a language not studied in high school. In French, German and Spanish, those with some experience who place into the second or fourth semester often take a conversation class in the fall in order to maintain their skills and get a strong head start on majoring or minoring.

Students taking language to fulfill the language requirement for their degrees are expected to attain proficiency in oral and written expression, listening comprehension and reading. These goals are usually attained at the end of a fourth semester course at the college level which is why students remain in the same language through the intermediate level. Students may take a proficiency test at the level required for their degree program or complete with a passing grade the specified semester requirement.

Unless they have special credits, such as a high score on an Advanced Placement exam, all students entering Southwestern take a placement test for foreign language. Students can receive exemption if their placement scores so warrant, and they will be advised as to which course they should take in that same language, based on the results of the placement exam; in the case of Classical languages, additional information from high school programs will be used to help establish placement. Students may take the beginning course (-014) in a different language if they choose not to pursue the language taken in high school. Because language study is sequential, students begin language study at the level of placement, and take next courses in the sequence in order (i.e. 014, 024, 113, 123) and must earn a grade of C- or better prior to enrolling in the next course in the sequence. The courses may not be taken concurrently. Placement tests may be taken in more than one foreign language. International students whose native tongue is not English may satisfy the foreign language requirement by scoring at least 570 (paper) or 230 (computer) on the TOEFL exam.

Students who major or minor in Spanish, and who have placed out of the foreign language requirement based on the results of their language placement exam as entering first-year students, may earn up to six semester hours of lower level credit corresponding to Spanish 15-113/123 upon successful completion of the major or minor. Students who placed into Spanish 15-123 on the language placement exam may earn credit for Spanish 15-113 upon completion of the major or minor. This also applies to Education majors who intend to certify in Spanish. Under no circumstances may an individual earn credit for more than two courses in Spanish by AP or placement examinations (see "Credit By Examination").

The Language Learning Center at Southwestern offers students wide-band access to the latest in multimedia courseware within the center's subnetwork and to native language materials from all over the globe. Students engage in a wide variety of language related activities in the center. These include accessing Web-based digital lab manuals for introductory language courses, writing papers, developing multimedia presentations for culture classes, and accessing print, audio and video media through Internet, cable and satellite connections. Functioning as a vehicle for the delivery of local instructional materials and as a portal onto a vast world of native language and cultural content, the center is an invaluable resource for students of language, culture and international affairs.

**Major in Spanish:** 30 semester hours, including Spanish 15-333, 343; 413 or 423; 933 (Capstone); nine semester hours of upper-level Spanish literature; nine additional hours of Spanish, three hours of which must be upper-level.

**Minor in Spanish:** 21 semester hours, including Spanish 15-333, 343; three hours of upper-level Spanish literature; 12 additional hours of Spanish, six hours of which must be above the introductory level.

See the Education Department for information regarding teacher certification in Spanish.

### Spanish (SPA)

All courses are taught in Spanish.

- 15-014, 024** **SPANISH I & II.** A two-semester course. Introduction to the language, with emphasis on understanding, speaking and reading. Use of interactive, computer-based materials is a regular part of the class work.
- 15-113** **SPANISH III.** Continued practice in the oral-aural skills, with increasing emphasis on reading and writing. Studies and grammar review supplemented with readings and computer-based materials, including the use of the internet. Prerequisite: Spanish 15-024 or equivalent.
- 15-123** **SPANISH IV.** A continuation of Spanish III. Prerequisite: Spanish 15-113 or equivalent.
- 15-132** **SPANISH CONVERSATION.** Discussion of topics in Spanish. This course is offered in the fall.
- 15-212** **ADVANCED SPANISH CONVERSATION.** Discussions of relevant cultural and social issues in Spanish, with increased emphasis on sophistication of expression during the second semester. Can be taken concurrently with Spanish 15-123.
- 15-213** **INTERMEDIATE ORAL AND WRITTEN EXPRESSION.** A course designed to further develop students' spoken and written Spanish. Readings, compositions and class discussions emphasize more difficult points of grammar and new idiomatic expressions. Prerequisite: Spanish 15-123 or permission of instructor.
- 15-233** **LITERATURE, FILM AND PERFORMANCE IN SPANISH.** A course studying theatre, film and poetry reading in performance with the content varying from year to year. **(H)**
- 15-333** **ADVANCED COMPOSITION.** A third-year course designed to enhance students' reading, writing and speaking skills. Course materials include short literary texts and other written, recorded and visual materials. Prerequisite: Spanish 15-123 or permission of instructor.
- 15-343** **CULTURES OF THE HISPANIC WORLD.** Exploration of Peninsular Spanish and Latin American cultures incorporating a variety of materials and approaches, such as geography, history, architecture, literature, music, art and religion. Involves use of Internet resources. Taught in Spanish. Prerequisite: Spanish 15-123 or permission of instructor. **(H) (IP)**
- 15-413** **PENINSULAR LITERATURE: MEDIEVAL TO ENLIGHTENMENT.** Interpretation and analysis of pre-19th century representative texts from Spain, emphasizing Medieval and Golden Age literature. Prerequisite: Spanish 15-333 or permission of instructor. **(H)**

- 15-423** **LATIN AMERICAN LITERATURE: PRE-COLOMBIAN TO ENLIGHTENMENT.** Interpretation and analysis of pre-19th century representative texts from Spanish America, focusing on both the Colonial and Post-Colonial periods. Prerequisite: Spanish 15-333 or permission of instructor. **(H)**
- 15-513** **CONTEMPORARY PENINSULAR LITERATURE: 19<sup>TH</sup> CENTURY TO THE PRESENT.** Interpretation and analysis of 19th, 20th, and 21st century representative texts from Spain. Prerequisite: Spanish 15-333 or permission of instructor. **(H)**
- 15-523** **CONTEMPORARY LATIN AMERICAN LITERATURE: 19<sup>TH</sup> CENTURY TO THE PRESENT.** Major figures and literary movements of the 19th, 20th, and 21st century in Latin America will be studied. Prerequisite: Spanish 15-333 or permission of instructor. **(H)**
- 15-613** **TOPICS IN HISPANIC FILM AND THEATRE.** Interpretation and analysis of selected works by Spanish and/or Latin American directors and dramaturges. Course may be repeated when content varies. Prerequisites: Spanish 15-333 and 413 or 423, or permission of instructor.
- 15-623** **TOPICS IN HISPANIC LITERATURE.** Interpretation and analysis of selected works by Spanish and/or Latin American authors. Course may be repeated when content varies. Prerequisites: Spanish 15-333 and 413 or 423, or permission of instructor. **(H)**
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- 15-001, 002, 003, 004** **SELECTED TOPICS.** May be repeated with change in topic.
- 15-301, 302, 303, 304** **SELECTED TOPICS.** May be repeated with change in topic.
- 15-403** **SELECTED TOPICS IN LITERATURE.** May be repeated with change in topic. Prerequisite: Spanish 15-333.
- 15-901, 902, 903, 904** **TUTORIAL.**
- 15-933** **RESEARCH SEMINAR FOR SENIORS.** Fulfills the requirements for a capstone experience in Spanish. Prerequisites: SPA15-333, 343, either 413 or 423, and one from 513, 523 or 623. **(H)**
- 15-941, 942, 943, 944** **ACADEMIC INTERNSHIP.** Must be taken Pass/D/F.
- 15-951, 952, 953, 954** **INDEPENDENT STUDY.** May be repeated with changed content.
- 15-983** **HONORS.** By invitation only.