316 Forensic Science (A Graduate Group)

Robert H. Rice, Ph.D., Chairperson of the Group

Graduate Program or consent of instructor. Restricted to students enrolled in the M.S. Forensic Science Program or by consent of Forensic Science Program Director. Statistics that are used by the forensic scientist, their limitations/applications in prosecuting criminals, and the latest trends in the evaluation of digital evidence. Offered in alternate years.—II. Peisert

268. Statistics in Forensic Science (3)

Lecture—3 hours. Prerequisite: graduate student. Restricted to students in the Forensic Science Graduate program unless approved by instructor. Discuss the threats to the security of any kind of evidence that is captured, transmitted, or stored digitally and develop critical thinking and basic knowledge of computer forensic science applications in the evaluation of digital evidence. Offered in alternate years.—II. Land

277. Forensic Genetics: Next Generation Techniques and Applications (3)

Lecture—3 hours. Prerequisite: undergraduate courses in fundamental and applied principles of: genetics, biochemistry, and molecular biology, or consent of instructor. Restricted to Forensic Science Graduate students (GFOR) or consent of instructor. Review organization/function of the human genome, recent developments, next generation sequencing technologies including bioinformatics used in the preparation of DNA samples, principles of the new generation sequencing assay formats and biochemical reactions. Will include quality control parameter, and bioinformatic approaches. Offered in alternate years.—I. Kanthaswamy

278. Molecular Techniques (3)

Lecture—3 hours. Prerequisite: graduate standing or consent of instructor. Recombinant DNA technology and its applications. (Same course as Environmental Toxicology 278.) Offered in alternate years.—I. Denison, Rice

280. Forensic DNA Analysis (3)

Lecture—3 hours. Prerequisite: coursework in genetics and molecular biology. Foundation in theory and practice of forensic DNA analysis: past, present, and emerging technologies, legal and quality assurance issues. DNA extraction, DNA quantitation, multiplex amplification of STR loci, capillary electrophoresis of amplified products, and analysis of STR typing data. (Same course as Environmental Toxicology 280.)—I. II. Von Beraldingen

281. Principles and Practice of Forensic Serology and DNA Analysis (3)

Lecture—2 hours; lecture/discussion—3 hours. Prerequisite: course/Environmental Toxicology 278 or Environmental Toxicology 280, or equivalent; consent of instructor. Restricted to students enrolled in the M.S. in Forensic Science Program or by consent of Forensic Science Program Director. Comprehensive overview of forensic serology and DNA typing techniques and technologies. Emphasis on real-world applications, including preservation and tracking of biological evidence, detection and identification of bodily fluids, and methods to quantify, and type human DNA. (Same course as Environmental Toxicology 281.)—I. III. Rodzen

283. Forensic Biology (3)

Lecture—2 hours; discussion—1 hour. Prerequisite: consent of instructor. Restricted to students enrolled in the M.S. in Forensic Science program or by consent of the Forensic Science Program Director. Overview of the foundational concepts in forensic biology: chemistry and molecular biology of biological evidence, genetic basis of biological uniqueness, evolutionary basis of species differences, patterns and dynamics of evidence deterioration, and the legal/ professional considerations associated with biological evidence.—II. Sensabaugh
French

(College of Letters and Science)
Julia Simon, Ph.D., Chairperson of the Department

Department Office, 213 Sproul Hall
530-752-1219, http://french.ucdavis.edu

Faculty
Jeff Fort, Ph.D., Associate Professor
Claire Goldstein, Ph.D., Associate Professor
Noah Guynn, Ph.D., Associate Professor
Eric Rushe, Ph.D., Associate Professor
Julia Simon, Ph.D., Professor
Toby Warner, Ph.D., Assistant Professor

Emeriti Faculty
Claude Abraham, Ph.D., Professor Emeritus
Edward M. Bloomberg, Ph.D., Professor Emeritus
Simone Clay, Ph.D., Emeritus Lecturer
Gerald Herman, Ph.D., Senior Lecturer Emeritus

Margo R. Kaufman, M.A., Senior Lecturer Emerita
Manfred Kusch, Ph.D., Senior Lecturer Emeritus
Comparative Literature (French and Italian)
Marshall Lindsay, Ph.D., Professor Emeritus
Maria I. Manouli, Ph.D., Professor Emerita
Michèle Praeger, Ph.D., Professor Emerita
Leslie Rabine, Ph.D., Senior Lecturer Emerita
(Russian and French, Women and Gender Studies)
Ruth B. York, Ph.D., Senior Lecturer Emerita

284. Non-Human Forensic DNA—Theory and Casework Application (2)
Lecture—3 hours. (Sequelize, current instructor required for all students not enrolled in the MS Forensics program; upper division Molecular Biology and Genetics or equivalent. Restricted to graduate standing. Prerequisites: Comprehensive understanding of plant and animal forensic biology in terms of sample collection, preservation, analytical methods, and of the invisible lines of inquiry these forensic evidence may permit. (Same course as Environmental Toxicology 284.) Offered in alternate years. —I. Kanthawmy

289. Survey in Forensic Science (3)
Lecture—3 hours. Analytical methods in contemporary forensic science. Clandestine laboratories in California, crime scene management, examination and analysis of human hair, forensic ballistics/trajectory reconstruction, shoe/footprint impressions, serial murder restoration, forensic aspects of alcohol impairment, bloodstain pattern interpretation, microscopy of building materials, biological aspect of forensic science. May be repeated for credit when topic differs. —I, II, III. Hopkins

290. Seminar in Forensic Science (1)
Seminar—3 hours. Students will be exposed to topical areas in Forensic Science by presentations conducted by expert guest speakers. The seminar will also serve as a medium whereby the exiting students will present the research conducted as part of their thesis requirement. May be repeated for credit when topic differs. Restricted to students enrolled in the M.S. Forensic Science Program. (S/U grading only) —I, II, III. Hopkins

290C. Graduate Research Conference in Forensic Science (1)
Independent study—1 hour. Individual and/or group conference on problems, progress and techniques in forensic science and research. May be repeated for credit when topic differs. (S/U grading only) —I, II, III. Hopkins

293. Forensic Science Research Methodology (2)
Lecture—1.5 hour; extensive writing or discussion—0.5 hours. Prerequisite: graduate students enrolled in the MS Forensic Science program or by consent of instructor. Introduction to identification, formulation, and solution of meaningful scientific problems encountered in the Forensic Science area including experimental design and/or theoretical analysis of new and prevailing techniques, theories and hypotheses. Students will present and defend their thesis research/journal article proposals. Limited enrollment. (S/U grading only) —I, II, III. Kimsey

298. Group Study in Forensic Science (1-5)
(S/U grading only)

299. Research in Forensic Science (1-12)
Prerequisite: consent of instructor. (S/U grading only)

A.B. Major Requirements:

UNITS
Preparatory Subject Matter.....................................4-34
French 1, 2, 3 (or the equivalent) ..................0-15
French 21, 22, 23 (or the equivalent) ...........0-15
Linguistics 1 or 4.............................................. 4

Depth Subject Matter...............................................44
French 100.................................................. 4

Three French literature courses from among the following at least one course must cover pre-revolutionary literature; such courses are marked with an asterisk: 101, 102, 103, *115, *116, *117A, *117B, *118A, *118B, 119A, 119B, 119C, 120, 121, 124, 125, 126, 129, 140, 141, 160, 161, 162 ...

Two French culture courses from among the following: 107, 108, 127, 128 ...

Two French linguistics and language science courses from among the following: 105, 109, 160, 161, 162 ...


Total Units for the Major........................................ 48-78

Recommended
French 107, 108, 109, 160 and 161 in addition to other upper division courses, for a total of 45 units for students interested in obtaining a "single subject" teaching credential in California.

Major Adviser, J. Fort

Minor Program Requirements:

UNITS
French 100...................................................... 4
One French literature course from among the following: 101, 102, 103, 115, 116, 117A, 117B, 118A, 118B, 119A, 119B, 120, 121, 124, 125, 130, 140, 141 ...

One French culture course from among the following: 107, 108, 127, 128 ...

One French linguistics and language science course from among the following: 105, 109, 160, 161, 162 ...

Two elective courses in French literature, language, or culture from among the following: 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 115, 116, 117A, 117B, 118A, 118B, 119A, 119B, 120, 121, 124, 125, 130, 140, 141, 160, 161, 162 ...

Two elective courses in French literature, language, or culture from among the following: 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 115, 116, 117A, 117B, 118A, 118B, 119A, 119B, 120, 121, 124, 125, 130, 140, 141, 160, 161, 162 ...

Honors Program. Candidates for high or highest honors in French must write a senior thesis under the direction of a faculty member. For this purpose, honors candidates must enroll in French 194H (4 units) and French 195H (4 units). Normally, a student will undertake the honors project during the first two quarters of the senior year; other arrangements must be authorized by the department chair. Only students who, at the end of the junior year (135 units), have attained a cumulative grade-point average of 3.500 in courses required for the major will be eligible for the honors program. The requirements for earning high and highest honors in French are in addition to the regular requirements for the major in French.

Education Abroad Program. The department of French and Italian encourages students to study abroad in the Summer Abroad program, the Quarter Abroad program, or the Education Abroad program. With the approval of a major adviser, applicable courses taken abroad may be accepted in the major or minor programs.

Teaching Credential Subject Representative. See the Teaching Credential/M.A. Program on page 115.

Graduate Study. The Department offers programs of study and research leading to the Ph.D. degree in French. Candidates for the Ph.D. have the option of enriching their degree program by preparing a designated emphasis in African American and African Studies, Critical Theory, Feminist Theory and Research, Classics and Classical Reception, Second Language Acquisition, or Studies in Performance and Practice. Detailed information may be obtained from the graduate adviser or the department chairperson.

Graduate Adviser, C. Goldstein

Prerequisite Credit. Credit will not normally be given for a course if it is the prerequisite of a course already successfully completed. Exceptions can be made by the department chairperson only.

Courses in French (FRE)

Students offering high school language preparation as a prerequisite must take a placement test.

Course Placement. Students with two years of high school French normally take French 2, those with three years take French 3 and those with four years take French 21.

Lower Division

1. Elementary French (5)
Discussion—5 hours; laboratory—1 hour. Not open for credit to students who have taken course 1A. Introduction to French grammar, pronunciation, and all language skills in a cultural context with special emphasis on communication. Students who have successfully completed French 2 or 3 in the 10th or higher grade in high school may receive unit credit for this course on a P/NP grading basis only. Although a passing grade will be charged to the student's P/NP option, no petition is required. All other students will receive a letter grade unless a P/NP petition is filed. GE credit: AHUM 1 | AH, WC—I, II, III, IV, II, III, IV | RH, WC | V | WC | World Cultures, WC | Writing Experience