

171. Black African and Black European Film and Video (4)

Lecture/discussion—2 hours; term paper; film viewing—2 hours. Prerequisite: one of courses 15, 50, or English 160 or 162. A comparative approach in the study of dramatic films and videos that treat black life in Africa and Europe. Critical attention will focus on the imaginative construction of ethnicity, race, nationality, gender, and sexuality in each particular work. GE credit: ArtHum, Div.—III. (III.)

172. Diaspora and New Black Identities (4)

Lecture/discussion—3 hours; term paper. Critical analysis about what it means to be Black/ African American in the United States today. Topics include old and new diasporas, national origin, language, religion, class, education, politics, identity and cultural heritage. GE credit: Div, Wrt.—II. (II.) Ng'weno

175A. Black Documentary: History and Theory (4)

Lecture/discussion—4 hours. Prerequisite: Film Studies 1, course 170; course 50 recommended. Black documentary history and documentary theory. Use of black documentary for political purposes. GE Credit: ArtHum, Div, Wrt.—II, III. Acham

175B. Black Documentary Practicum (4)

Lecture—2 hours; laboratory—6 hours. Prerequisite: course 175A and consent of instructor. Creation of documentary projects, with students working in production crews. Offered in alternate years.—II, III. Acham

180. Race and Ethnicity in Latin America (4)

Lecture—4 hours. The social and political effects of racial and ethnic categorization in Latin America, including issues of economic production, citizenship, national belonging, and access to resources. Emphasis is on peoples of African, Indigenous, and Asian descent. GE credit: ArtHum, SocSci, Div.—II. (II.) Ng'weno

181. Hip Hop in Urban America (4)

Lecture—3 hours; discussion—1 hour. Prerequisite: junior- or senior-level standing or consent of instructor. History, aesthetics, urban context, and economics of hip-hop in the US, and its globalization. Hip-hop's four artistic elements—rap, deejaying, break-dance, and aerosol art—allow the examination of issues of race, ethnicity, and gender in youth culture and American society. GE Credit: ArtHum, Div.—III. (III.) Osumare

185. Topics in African-American Film (4)

Lecture/discussion—4 hours. Prerequisite: course 170; course 50 recommended. Intensive study of special topics in African American film. May be repeated one time for credit. Offered in alternate years. GE credit: ArtHum, Div, Wrt.—II. (II.) Acham

190. Topics in African and African-Diaspora Studies (4)

Lecture/discussion—3 hours; term paper. Prerequisite: upper division standing in African American and African Studies or consent of instructor. Intensive treatment of a special topic or problem in African or African Diaspora Studies. May be repeated once for credit when topic differs.—III. (III.)

192. Internship in African-American and African Studies (1-8)

Internship—3-24 hours. Prerequisite: upper division standing, completion of 12 units of upper division study in African American and African Studies courses and consent of instructor. Enrollment limited to African American and African Studies majors and minors. Supervised internship in community, government, or private institutions, in all subject areas offered by the African American and African Studies Program. May be repeated for credit for a total of 12 units. (P/NP grading only.)

197T. Tutoring in Afro-American Studies (1-5)

Tutoring—1-5 hours. Prerequisite: consent of major committee; upper division standing with major in Afro-American Studies. Leading of small voluntary

discussion groups affiliated with one of the department's regular courses. May be repeated for credit for a total of six units. (P/NP grading only.)

198. Directed Group Study (1-5)

Prerequisite: consent of instructor. (P/NP grading only.)

199. Special Study for Advanced Undergraduates (1-5)

Prerequisite: consent of instructor. (P/NP grading only.)

Graduate Courses**201. Critical Foundations in African American Studies (4)**

Seminar—3 hours. Prerequisite: graduate standing. Introduction to history of African American Studies. Topics include: research agendas, policy implications, debates, crises, and institutional frameworks. Offered in alternate years.—(I.) Acham, Harrison

202. Critical Foundations in African Studies (4)

Seminar—3 hours; term paper. Prerequisite: graduate standing. Introduces students to the history and current organization of African Studies as area of intellectual investigation. Offers students an opportunity to review research agenda and policy implications, debates, crises, and institutional frameworks surrounding the production of knowledge about Africa. Offered in alternate years.—III. Adejunmobi

203. Critical Foundations in African Diaspora Studies (4)

Seminar—3 hours; term paper. Integrative conceptual framework includes History, Geography, Political Economy, Culture, Aesthetics as tools to investigate the African Diaspora. Students engage African Diaspora theories within their research projects understanding issues developing from the movement of Africans to the rest of the world.—III. (II.) Ng'weno, Osumare

204. Methodologies in African American and African Studies (4)

Seminar—3 hours; term paper. The relationship between theory and methodology, with emphasis on identifying relevant methodological approaches and constructing theoretically informed research projects for studying the experience of people of African descent whether on the African continent or in the rest of the world.—I. Harrison, Ngweno

298A. Directed Group Study in African American and African Diaspora Studies (1-5)

Prerequisite: graduate standing. May be repeated for credit up to three times. (S/U grading only.)

298B. Directed Group Study in African Studies (1-5)

May be repeated for credit up to three times. (S/U grading only.)

299. Directed Group study in African studies (1-12)

(S/U grading only.)

Agricultural and Environmental Chemistry (A Graduate Group)

Susan E. Ebeler, Ph.D., Chairperson of the Group

Group Office. 4117 Meyer Hall (530) 752-1415; <http://agchem.ucdavis.edu/>

Faculty

Douglas O. Adams, Ph.D., Associate Professor (*Viticulture and Enology*)

Cort Anastasio, Ph.D., Associate Professor (*Land, Air, and Water Resources*)

Charles W. Bamforth, Ph.D., Professor (*Food Science and Technology*)

Deborah Bennett, Ph.D., Assistant Adjunct Professor (*Public Health Sciences, School of Medicine*)

Linda F. Bisson, Ph.D., Professor (*Viticulture and Enology*)

Roger B. Boulton, Ph.D., Professor (*Viticulture and Enology*)

William H. Casey, Ph.D., Professor (*Land, Air, and Water Resources*)

Victor P. Claassen, Ph.D., Assistant Researcher (*Land, Air, and Water Resources*)

Andrew J. Clifford, Ph.D., Professor (*Nutrition*)

Carroll E. Cross, M.D., Professor (*Internal Medicine*)

Randy A. Dahlgren, Ph.D., Professor (*Land, Air, and Water Resources*)

Susan E. Ebeler, Ph.D., Professor (*Viticulture and Enology*)

Ian C. Faloona, Ph.D., Assistant Professor (*Land, Air, and Water Resources*)

Oliver Fiehn, Ph.D., Associate Professor (*Molecular and Cell Biology*)

Edwin N. Frankel, Ph.D., Adjunct Professor (*Food Science and Technology*)

J. Bruce German, Ph.D., Professor (*Food Science and Technology*)

Peter G. Green, Ph.D., Lecturer (*Civil and Environmental Engineering*)

Bruce D. Hammock, Ph.D., Professor (*Entomology*)

Dirk M. Holstege, Ph.D., Assistant Adjunct Professor (*Environmental Toxicology*)

William R. Horwath, Ph.D., Professor (*Land, Air, and Water Resources*)

Krassimira R. Hristova, Ph.D., Research Professor (*Land, Air and Water Resources*)

You-Lo Hsieh, Ph.D., Professor (*Textiles and Clothing*)

Norman Y. Kado, Ph.D., Associate Adjunct Professor (*Environmental Toxicology*)

Peter B. Kelly, Ph.D., Professor (*Chemistry*)

Annie J. King, Ph.D., Professor (*Animal Science*)

Michael J. Kleeman, Ph.D., Associate Professor (*Civil and Environmental Engineering*)

Mark J. Kurth, Ph.D., Professor (*Chemistry*)

Fumio Matsumura, Ph.D., Professor (*Environmental Toxicology*)

Michael J. McCarthy, Ph.D., Professor (*Food Science and Technology*)

Alyson E. Mitchell, Ph.D., Associate Professor (*Food Science and Technology*)

Krishnan P. Nambiar, Associate Professor (*Chemistry*) *Distinguished Graduate Mentoring Award*

David S. Reid, Ph.D., Professor (*Food Science and Technology*)

James R. Sanborn, Ph.D., Researcher (*Entomology/Pesticide Regulation*)

Neil E. Schore, Ph.D., Professor (*Chemistry*)

Takayuki Shibamoto, Ph.D., Professor (*Environmental Toxicology*)

Charles F. Shoemaker, Ph.D., Professor (*Food Science and Technology*)

Gary M. Smith, Ph.D., Professor (*Food Science and Technology*)

Randal J. Southard, Ph.D., Professor (*Land, Air, and Water Resources*)

Gang Sun, Ph.D., Professor (*Textiles and Clothing*)

Ronald S. Tjeerdema, Ph.D., Professor (*Environmental Toxicology*)

Dean J. Tantillo, Ph.D., Assistant Professor (*Chemistry*)

Andrew L. Waterhouse, Ph.D., Professor (*Viticulture and Enology*)

Matthew J. Wood, Ph.D., Assistant Professor (*Environmental Toxicology*)

Thomas M. Young, Ph.D., Professor (*Civil and Environmental Engineering*)

Robert J. Zasoski, Ph.D., Professor (*Land, Air, and Water Resources*)

Emeriti Faculty

Donald G. Crosby, Ph.D., Professor Emeritus

John R. Whitaker, Ph.D., Professor

Affiliated Faculty

Lowell L. Ashbaugh, Ph.D., Associate Researcher
(Crocker Nuclear Lab)
Diane M. Barrett, Ph.D., Specialist
(Food Science and Technology)
Warren H. White, Ph.D., Researcher
(Crocker Nuclear Lab)

Graduate Study. The Graduate Group in Agricultural and Environmental Chemistry offers programs of study and research leading to the M.S. and Ph.D. degrees. Study relates to the chemical and biochemical aspects of foods, wine, fibers/polymers, pesticides, and environmental pollution. Detailed information regarding graduate study may be obtained at <http://agchem.ucdavis.edu/>.

Graduate Advisers. D.O. Adams (*Viticulture and Enology*), D.S. Reid (*Food Science and Technology*), Y.-L. Hsieh (*Textiles and Clothing*), T. Shibamoto (*Environmental Toxicology*), T. Young (*Civil and Environmental Engineering*)

Courses in Agricultural and Environmental Chemistry (AGC)**Graduate Courses****290. Seminar (1)**

Seminar—1 hour. Selected topics in agricultural and environmental chemistry, presented by students. (S/U grading only.)—I, II, III. (I, II, III.)

298. Group Study (1-5)

Prerequisite: consent of instructor. The chemistry and biochemistry of foods, nutritional chemicals, pesticides, and other special topics as they apply to agricultural and environmental chemistry.

299. Research (1-12)

Arrangements should be made well in advance with a faculty member of the Group in Agricultural and Environmental Chemistry. (S/U grading only.)

Agricultural Computing and Information Systems

See [Applied Computing and Information Systems, on page 153.](#)

Agricultural and Environmental Education

(College of Agricultural and Environmental Sciences and School of Education)

The Major Program

The major serves those interested in teaching agricultural and environmental sciences in schools or in non-formal settings such as nature preserve, environmental camps, or other venues. This major prepares graduates to direct programs in the agricultural and environmental sciences as well as provides them with a skill set necessary to work within social science careers related to these fields. This program of study meets state and federal requirements for teacher preparation in agriculture and science, as well as requirements in career technical education (CTE).

The Program

This program is designed to provide students with a broad background in various agricultural and environmental science disciplines, e.g., animal science, environmental science, plant and soil science, agri-

cultural engineering, business management, agroecology, and horticulture. The program also focuses on the social sciences related to human resource development. The program provides students with practical experiences through fieldwork, school and non-formal learning sites placements, or placements related to a student's focus of study. Through this major students will have the opportunity to explore and incorporate the diversity of agricultural and environmental issues facing today's society.

Career Alternatives

The need for scientists, technicians and creative educators to assist in domestic and international agricultural and environmental programs has created a continuing demand for qualified instructors and supervisory personnel. This major also provides general preparation which is appropriate for work in banking, sales and service, rural recreation and related agricultural and environmental sectors. Students interested in obtaining breadth in both agricultural and environmental sciences will appreciate the scope and flexibility the major provides.

Advising for the major is located in 1202 Meyer Hall (530) 754-7915. For credential information, see School of Education in 2060 Academic Surge (530) 752-0757

Major Adviser. C.J. Trexler

Courses in Agricultural Education (AED)

Questions pertaining to the following courses should be directed to the instructor or Lynn Martindale (530) 754-6655.

Lower Division Courses**92. Internship (1-12)**

Internship—3-36 hours. Prerequisite: lower division standing; consent of instructor. Supervised internship off and on campus in areas of agricultural education. (P/NP grading only.)

98. Directed Group Study (1-5)

Prerequisite: consent of instructor. (P/NP grading only.)

99. Special Study for Undergraduates (1-5)

Prerequisite: consent of instructor. (P/NP grading only.)

Upper Division Courses**100. Concepts in Agricultural and Environmental Education (3)**

Lecture—2 hours; laboratory—3 hours. Prerequisite: upper division standing. Philosophy and nature of formal and non-formal agricultural and environmental education programs. Emphasis on understanding the role of the teacher and observing a variety of programs. GE credit: SocSci, Wrt.—II. (II.) Martindale

160. Vocational Education (3)

Lecture—3 hours. Philosophy and organization of vocational education, with particular reference to educational principles for agriculture commerce, home economics, and industry. GE credit: SocSci, Wrt.—II. (II.)

171. Audiovisual Communications (2)

Lecture—1 hour; laboratory—3 hours. Prerequisite: upper division standing. Theory and principles of audiovisual communications. Comparison of audiovisual materials such as transparencies, slides, computer-generated graphics, and videos. Operation and use of audiovisual equipment is stressed.—II. (II.)

172. Multimedia Productions (3)

Lecture—2 hours; laboratory—3 hours. Prerequisite: course 171 recommended. Design and production of educational, technical, and professional multimedia presentations. Instructional or professional presentations using a variety of media, including slides, video, transparencies, and computer-generated graphics. Offered in alternate years. GE credit: SocSci, Wrt.—(III.)

190. Seminar in Agricultural Education (2)

Seminar—2 hours. Discussion of selected critical issues in agricultural education. May be repeated for credit with consent of instructor. (P/NP grading only.)—II. (II.)

192. Internship (1-12)

Internship—3-36 hours. Prerequisite: upper division standing; consent of instructor. Supervised internship off and on campus in areas of agricultural education. (P/NP grading only.)

198. Directed Group Study (1-5)

(P/NP grading only.)

199. Special Study for Advanced Undergraduates (1-5)

(P/NP grading only.)

Professional Courses**300. Directed Field Experience in Teaching (2)**

Discussion—1 hour; field experience—3 hours. Prerequisite: course 100. Experience as teaching assistant in agriculture or home economics programs in public schools. May be repeated once for credit. (P/NP grading only.)—I, II, III. (I, II, III.)

301. Planning for Instructional Programs (3)

Lecture—3 hours. Prerequisite: course 100; course 300 (may be taken concurrently). Major paradigms in program planning and development. Emphasis on key steps in curriculum development, including selection and organization of educational objectives, learning experiences and teaching materials and resources.—III. (III.) Trexler

302. Teaching Methods in Agricultural Education (3)

Lecture—2 hours; laboratory—2 hours. Prerequisite: course 100, course 300 (may be taken concurrently). Development of teaching strategies with special emphasis on the designing of learning experiences, instructional execution, and use of teaching aids in agricultural education.—I. (I.) Martindale

306A. Field Experience with Future Farmers of America and Supervised Experience Programs (4)

Lecture/discussion—2 hours; field work—6 hours. Prerequisite: acceptance into a teacher education program; course 306B (concurrently). Develop an understanding of the Future Farmers of America and supervised occupational experience programs through planning, conducting, and evaluating actual programs.—I, II, III. (I, II, III.)

306B. Field Experience in Teaching Agriculture (5-18)

Student teaching (corresponds with public school session). Prerequisite: acceptance into a teacher education program; course 306A (concurrently); courses 100, 300, 301, 302. Directed teaching including supervision of occupational experience programs and youth activities in secondary schools or community colleges. May be repeated for credit up to a maximum of 18 units.—I, II, III. (I, II, III.)

323. Resource Development: Agricultural Education (3)

Lecture—3 hours. Prerequisite: courses 306A, 306B. Selection and implementation of community resources in teaching.—I. (I.)

390. Seminar: Issues in Agricultural Education (2)

Discussion/laboratory—4 hours. Prerequisite: acceptance into a teacher education program and courses 306A-306B. Discussion and evaluation of current issues, theories and research in agricultural education. (S/U grading only.)—III. (III.)

Master Advisor. C.J. Trexler, Ph.D., Assistant Professor

Advising Center for the major, including peer advising, is located in 1202 Meyer Hall (530) 754-7915.