International Agricultural Development

(College of Agricultural and Environmental Sciences)

International Agricultural Development is an interdisciplinary major in the Plant Sciences department.

Faculty. Includes members from various departments across colleges.

B.S. Major Requirements:

Preparatory Subject Matter .................. 36-38

International Agricultural Development 10 ........................................ 4
Plant Sciences 2 ........................................ 4
Soil Sciences 10 or 100 ................................... 3-5
Economics 1A and 1B ........................................ 8
Statistics 13 or Sociology 468 or Plant
Sciences 120 ........................................ 4
Math 16A ........................................ 3
Community and Regional Development 1 ........................................ 4
Six units from: Agricultural and Resource Economics 15, Animal Science 41, 41L,
Community and Regional Development 20, Nutrition 10, Plant Sciences 15, 49 ..... 6

Depth Subject Matter .................................. 32

Agricultural and Resource Economics 147 or Plant
Sciences 101 ........................................ 3
Economics 115A ........................................ 4
Five units from: International Agricultural Development 142, 160, Plant Sciences
110A, 110C, 110L, 112, 130 ................................... 5
International Agricultural Development 103 and International Agricultural Development
170 .................................................. 8
Sociology 170 or Community and Regional
Development 141 or 162 ................................ 4
Community and Regional Development 142 or 149 or 152 ........................................ 7
Political Science 123 or 124 or Sociology
145A or Anthropology 126A or 126B or 131 ........................................ 4

Foreign Language Requirement .................. 0-15

Students must complete three sequenced quarters (15 units) of courses in one foreign
language or its equivalent. Passing a foreign language proficiency examination, a score of
5, 4, or 3 on a foreign language Advanced Placement examination (except Latin), or a
score of 550 on the SATi. Subject Test will also satisfy this requirement.

Internship Requirement .......................... 4
Students must complete three units of internship. Internships can be chosen in consultation
with an adviser. Internship requirement waived for students enrolled in UC Education Abroad Program.

Areas of Specialization ...................... 44-45

Agricultural Production Option ............. 45
Biological Sciences 2A and 2B .................. 10
Chemistry 2A and 2B .................................. 10
15 units from: Animal Science 118, 124, 124A,
136A, 136B, 143, 144, 145, 146, Avian
Sciences 121, Entomology 110, 135,
Environmental Horticulture 100, 133,
Environmental Science and Management 100, Hydrology 124, International
Agricultural Development 142, 160, Plant
Sciences 120, Plant Sciences 110A,
110C, 110L, 112, 113, 114, 120, 150,
170A, 170B, 172, 176, Soil Sciences
109, 118 ........................................ 15
Restricted Electives: Courses selected in consultation with an adviser ........................................ 10
Trade and Economic Development Option ........................................ 44-45
Mathematics 168 .................................. 3
Sociology 1 or Anthropology 2 .................. 4-5
How social and cultural factors influence technological change in agriculture; theories of diffusion of innovations; social and technological assessment. GE credit: SocSci, Div [SS, WE].

142. Equipment and Technology for Small Farms (2)
Lecture—1 hour; laboratory—3 hours. Types and characteristics of agricultural equipment and technologies appropriate for small commercial farming. Adjustment and calibration of equipment. Selection of and budgeting for equipment. (Same course as Applied Biological Systems Technology 142.) GE credit: SciEng [Q], SS, VL—S. (S.) Shaffi

160. Agroforestry: Global and Local Perspectives (3)
Lecture/discussion—3 hours. Prerequisite: Plant Sciences 2 or Biological Sciences 1C or 2C; Plant Sciences 142 or 150 or Biological Sciences 2B or a general ecology course. Traditional and evolving use of trees in agricultural ecosystems; their multiple roles in ecosystem development and production of food, fuel, and fiber; and socioeconomic barriers to the adoption and implementation of agroforestry practices. Not open for credit to students who have taken previously taken Agricultural Management and Rangeland Resources 160. (Former course Agricultural Management and Rangeland Resources 160.) Offered in alternate years. GE credit: SciEng [Q].

170. Program Development for International Agriculture (4)

190. Proseminar in International Agricultural Development (1)
Seminar—1 hour. Presentation and discussion of current topics in international agricultural development by visiting lecturers, staff, and students. May be repeated for credit. (P/NP grading only.)

192. Internship (1-12)
Internship—3-36 hours. Prerequisite: consent of instructor. Supervised internship, off and on campus, in community and institutional settings. (P/NP grading only)—F, W, S. (F, W, S.)

198. Directed Group Study (1-5)
Prerequisite: consent of instructor. Directed group study. (P/NP grading only)—F, W, S. (F, W, S.)

199. Special Study for Advanced Undergraduates (1-5)
Prerequisite: consent of instructor. Special study for advanced undergraduates. (P/NP grading only)—F, W, S. (F, W, S.)

Graduate

200N. Analysis and Determinants of Farming Systems (4)
Lecture—4 hours; discussion—1 hour. Prerequisite: Plant Sciences 150 or the equivalent. Unifying concepts of cropping systems in temperate and tropical climatic zones; agroecosystems stability, diversity and sustainability; management strategies, resource use efficiency and their interactions, role of animals, their impact on energy use efficiency, nutrient cycling, and providing food and power. Not open for credit to students who have completed former course 200. —S. (S.) Bunn, Van Kessel

203N. Project Planning and Evaluation (4)
Discussion—1 hour; workshop—3 hours. Prerequisite: courses 200N (or former course 202), 201, 202N (or former course 200) and directed group setting for application of student skills and specialization to a “real world” development project. Focus on team-building and effective interdisciplinary problem-solving methods, with the objective of producing a project document and presentation within a specified deadline. Not open for credit to students who have completed former course 203. —S. (S.)

290. Seminar in International Agricultural Development (1-3)
Seminar—1-2 hours. Prerequisite: consent of instructor. Discussion and critical evaluation of advanced topics and issues in international agricultural development. May be repeated for credit. (S/U grading only)—F, W, S. (F, W, S.) Scow, Van Horn

291. Topics in International Agricultural Development (1-3)
Lecture/discussion—1-3 hours. Prerequisite: consent of instructor. Selected topics dealing with current issues in agricultural development in lesser developed nations. Variable content. May be repeated one time for credit. —F, W, S. (F, W, S.)

292. Graduate Internship (1-12)
Internship—3-36 hours. Prerequisite: participation in H. Humphrey Fellow Program or consent of instructor. Individually designed supervised internship, off or on campus, in community, business or institutional setting. Developed with advice of faculty mentor and Humphrey Coordinator. (S/U grading only.)—F, W, S. (F, W, S.)

298. Directed Group Study (1-5)
Prerequisite: consent of instructor. Directed group study. (S/U grading only)—F, W, S. (F, W, S.)

299. Research (1-12)
Prerequisite: consent of instructor. Research. (S/U grading only)—F, W, S. (F, W, S.)

Professional

396. Teaching Assistant Training Practicum (1-4)
Prerequisite: graduate standing. Teaching assistant training practicum. May be repeated for credit. (S/U grading only)—F, W, S. (F, W, S.)

International Agricultural Development (A Graduate Group)

Kate Scow, Ph.D., Professor (Land, Air, and Water Resources) Chairperson of the Group

Group Office, 1220 Plant and Environmental Sciences Building, 530-752-1715; http://iad.ucdavis.edu

Faculty

Kassim Al-Khatib, Ph.D., Professor (Plant Sciences) Sharif Aly, Ph.D., Associate Professor (Population Health and Reproduction) Roger Baldwin, Ph.D., Associate Cooperative Extension Specialist (Wildlife, Fish, and Conservation Biology) Diane M. Barrett, Ph.D., Specialist in Cooperative Extension (Food Science and Technology)