COMMUNITY DEVELOPMENT AND APPLIED ECONOMICS

OVERVIEW
The Department of Community Development and Applied Economics (CDAE) supports sustainable local and international community development through interdisciplinary research, education, and outreach that serves the public interest. CDAE offers a Master of Science degree in Community Development and Applied Economics. Expertise among the CDAE faculty advisors includes economics (both ecological and neoclassical), rural sociology, food systems, applied econometrics, agricultural economics, policy and governance, consumer affairs, renewable energy, and community entrepreneurship. CDAE’s research and outreach is both global (e.g., Agroecology, Farmer Livelihoods and Ecosystem Services in Brazil’s Atlantic Forest) and local (e.g., dairy farming and farmers’ markets in Vermont) and graduate students benefit from close affiliation with other research institutions at the University of Vermont and beyond.

DEGREES
- Community Development and Applied Economics M.S.

FACULTY
Baker, Daniel H.; Associate Professor, Department of Community Development and Applied Economics; PHD, University of Vermont
Conner, David S.; Assistant Professor, Department of Community Development and Applied Economics; PHD, Cornell University
Farley, Joshua C.; Professor, Department of Community Development and Applied Economics; PHD, Cornell University
Heiss, Sarah Noel; Assistant Professor, Department of Community Development and Applied Economics; PHD, Cornell University
Koliba, Christopher J.; Professor, Department of Community Development and Applied Economics; PHD, Ohio University
Kolodinsky, Jane Marie; Professor, Department of Community Development and Applied Economics; PHD, Cornell University
McMahon, Edward; Associate Professor, Department of Community Development and Applied Economics; PHD, University of Vermont
Sun, Tao; Assistant Professor, Department of Community Development and Applied Economics; PHD, University of Minnesota Twin Cities
Tobin, Daniel; Assistant Professor, Department of Community Development and Applied Economics; PHD, The Pennsylvania State University
Wang, Qingbin; Professor, Department of Community Development and Applied Economics; PHD, Iowa State University
Zia, Asim; Associate Professor, Department of Community Development and Applied Economics; PHD, Georgia Institute of Technology

Courses
CDAE 205. Rural Comm in Modern Society. 3 Credits.
The changing structure and dynamics of rural social organization in context of modernization and urbanization. Emphasis on rural communities in the U.S. Prerequisite: Six hours of Sociology.

CDAE 206. Smart Resilient Communities. 3 Credits.
Focus on social ecological systems integration framework to determine community resilience, enable smart design processes at the nexus of food, energy and water systems and learn practical skills, such as early warning systems, ubiquitous computing and interactive scenario planning techniques. Prerequisites: CDAE 102 or Graduate standing. Cross-listed with: PA 260.

CDAE 207. Markets, Food & Consumers. 3 Credits.
Learn how producers, processors, wholesalers, cooperatives, retailers, consumers, and governments affect the movement of food and fiber products through the production-marketing chain. Prerequisite: CDAE 061 or equivalent.

CDAE 208. Agricultural Policy and Ethics. 3 Credits.
An examination of American agriculture and policies from various perspectives - historical, political, ecological, technological, social, economic, and ethical. Emphasis on contemporary issues, policy options, and future development. Prerequisites: CDAE 102 or equivalent.

CDAE 218. Community Org & Development. 3 Credits.
The roles of forms of community capital, civic engagement, leadership, social and political institutions, and communities of place and interest in a community development context. Pre/co-requisites: Junior standing; CDAE 102 or Instructor permission.

CDAE 237. Economics of Sustainability. 3 Credits.
Economic analysis that integrates natural resource and community planning for sustainable development at local, national, and international levels. Examples include land use, sustainable agriculture, and green business. Prerequisites: CDAE 102 or Instructor permission.

CDAE 238. Ecological Landscape Design. 4 Credits.
Studio course synthesizing work from fields of landscape ecology and landscape design, exploring ecological design alternatives at multiple scales, and developing multifunctional landscape solutions. Pre/co-requisites: PSS 137 or one course in ecology plus one course in design or drawing; minimum Junior standing. Cross-listed with: PSS 238, ENVS 238, NR 238.

CDAE 253. Macroeconomics for Appl Econ. 3 Credits.
Explore macroeconomic principles and concepts as they affect individuals and businesses in local, regional, national, and global economics. Prerequisites: CDAE 102 or equivalent.

CDAE 254. Microeconomics for Appl Econ. 3 Credits.
The study of economic choices of individuals and firms, and the analysis of competitive and noncompetitive markets. Emphasis on application of intermediate microeconomic theory. Prerequisites: CDAE 102 or equivalent.
CDAE 260. Smart Resilient Communities. 3 Credits.
Focus on social ecological systems integration framework to
determine community resilience, enable smart design processes at
the nexus of food, energy and water systems and learn practical skills,
such as early warning systems, ubiquitous computing and interactive
scenario planning techniques. Prerequisite: CDAE 102 or Graduate
standing. Cross-listed with: PA 260.

CDAE 266. Dec Making: Comm Entrepreneurs. 3 Credits.
Quantitative decision-making methods and applications for
community entrepreneurs. Major topics include linear programming,
risk and uncertainty, inventory decisions, and e-commerce.
Prerequisites: CDAE 166, MATH 019, and CALS 085 or CS 002.

CDAE 267. Strat Plan: Comm Entrepreneurs. 4 Credits.
Applications of marketing, finance, and management strategies.
Drafting a real working business plan for community entrepreneurs
and economic development. Prerequisites: One of the following:
CDAE 166, CDAE 167, CDAE 168, or equivalent course; Senior
standing only.

CDAE 272. Int’l Economic Development. 3 Credits.
International trade, finance, investment, and development theories
and policies for community development. Prerequisite: CDAE 102 or
EC 100-172.

CDAE 273. Project Development & Planning. 3 Credits.
National, community, and private sector project development. Focus
on planning methods and policy instruments, sectoral linkages,
and contributions to the economy as a whole. Pre/co-requisites:
CDAE 102 or Instructor permission.

CDAE 276. Community Design Studio. 3 Credits.
Problem-based community design studio course with research
on existing conditions, needs assessment, sense of place, and
development of sustainable and integrative design solutions and
processes. Prerequisites: CDAE 015, CDAE 001, or equivalent.

CDAE 286. Adv Sust Dev Sm Island States. 4 Credits.
This course is an advanced course in problems of sustainable
development on small island developing states utilizing a case study
of St. Lucia, West Indies. Prerequisites: CDAE 186 and Instructor
permission required.

CDAE 287. Spatial Analysis. 3 Credits.

CDAE 289. Special Topics. 1-18 Credits.
Lectures or readings on contemporary issues in Community
Development and Applied Economics. Enrollment may be more than
once, up to twelve hours.

CDAE 321. Econ of Sustainable Food Syst. 3 Credits.
Utilizes common economic tools, ideas and applications to analyze
issues concerning the sustainability of food using a combination of
readings, lectures and discussions. Prerequisite: Graduate standing.
Cross-listed with: FS 321.

CDAE 326. Community Economic Development. 3 Credits.
Examines how rural and urban communities address poverty,
unemployment and other economic problems through job
creation and retention, workforce training and support, and other

CDAE 351. Research Methods. 0 or 3 Credits.
Developing research projects with the scientific methods; evaluating
alternative literature review, sampling, surveying, and analytic
methods; and reporting the results. Prerequisite: Three hours of
Statistics.

CDAE 354. Advanced Microeconomics. 3 Credits.
Principles and applications of advanced microeconomics: consumer
and market demand, firm and market supply, perfect and imperfect
markets, partial and general equilibrium, and policy analysis.
Prerequisite: Graduate student standing.

CDAE 359. Applied Econometrics. 3 Credits.
Presents common econometric methods to perform regression
analysis on empirical data. Upon completion, students will
understand and apply econometric methods to conduct rigorous
regression analysis. Students will also better read, interpret and
discern research papers’ quality using econometric methods.

CDAE 376. Communicating Science. 3 Credits.
Advanced exploration, application of science communication
theories, contexts, practices. Examine the relationship between
science & society while learning communication skills that promote
respect and shared understandings of science among researchers,
extension professionals, journalists, public relations specialists, policy
officials, and public. Prerequisite: Graduate standing.

CDAE 377. Practicum in Extension Educ. 1-12 Credits.

CDAE 391. Master’s Thesis Research. 1-18 Credits.

CDAE 392. Graduate Seminars. 1 Credit.
Report and discuss research projects and findings of graduate
students and faculty, and offer workshops on selected topics in
community development and applied economics. May enroll more
than once for up to three credits. Prerequisite: Graduate standing.

CDAE 393. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student,
which occurs outside the traditional classroom/laboratory setting
under the supervision of a faculty member, for which credit is
awarded. Offered at department discretion.

CDAE 395. Advanced Special Topics. 1-18 Credits.
Lectures or readings on contemporary issues in Community
Development and Applied Economics at the graduate level.
Prerequisite: Graduate standing.