DEPARTMENT OF COMMUNITY DEVELOPMENT AND APPLIED ECONOMICS

http://www.uvm.edu/~cdae/

The challenges affecting our communities and world are complex, interconnected and ever changing, fueling the demand for professionals with a unique set of knowledge and skills. The Department of Community Development and Applied Economics (CDAE) uses economic, social, and environmental principles to identify community needs, analyze problems and advance sustainable solutions in partnership with organizations and communities.

THE CDAE MISSION

CDAE supports sustainable local and international community development through interdisciplinary research, education, and outreach that serves the public interest.

CDAE offers three innovative majors: Community Entrepreneurship, Community and International Development, and Public Communication. Students in CDAE focus on the application of economic principles and their relationship to leadership and management, economic and enterprise development, environmental sustainability, and social responsibility. CDAE offers many courses with experiential learning, including service-learning courses in which students partner with community organizations to work on real-world issues.

CDAE also offers seven minors: Community Entrepreneurship; Community and International Development; Public Communication; Applied Design; Consumer Affairs; Consumer and Advertising; and Green Building and Design. CDAE also participates in the College of Agriculture and Life Sciences interdepartmental Food Systems minor.

Expertise among the CDAE faculty includes economics (both ecological and neoclassical), ecological design and renewable energy, public policy, community entrepreneurship, consumer affairs, food systems and political process. CDAE’s research and outreach is global (e.g., Honduras, St. Lucia, Belize) and local (e.g., dairy farming and farmers’ markets in Vermont).

More information on CDAE and the majors/minors offered, including faculty, student, and alumni profiles, is available on the department’s website. Inquiries are accepted by email at cdae@uvm.edu or by phone at (802) 656-2001.

GENERAL REQUIREMENTS

Students majoring in any of the three majors within the department must complete the CDAE Core Curriculum, which includes the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDAE 002</td>
<td>D2: World Food, Pop &amp; Develop</td>
<td>3</td>
</tr>
<tr>
<td>CDAE 061</td>
<td>Principles of Comm Development</td>
<td>3</td>
</tr>
<tr>
<td>CDAE 102</td>
<td>Sustainable Community Dev</td>
<td>3</td>
</tr>
<tr>
<td>CDAE 127</td>
<td>Consumer, Markets &amp; Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>CDAE 250</td>
<td>Applied Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>POLS 021</td>
<td>American Political System</td>
<td></td>
</tr>
<tr>
<td>CALS 001</td>
<td>Foundations: Communication Methods</td>
<td></td>
</tr>
<tr>
<td>CALS 002</td>
<td>Foundation: Information Tech</td>
<td></td>
</tr>
</tbody>
</table>

Two courses from the Humanities and Fine Arts

Two three-credit University Approved Diversity courses

Except for PCOM majors the following are also required:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 019</td>
<td>Fundamentals of Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 141</td>
<td>Basic Statistical Methods</td>
<td></td>
</tr>
<tr>
<td>EC 011</td>
<td>Principles of Macroeconomics</td>
<td></td>
</tr>
</tbody>
</table>

MAJORS

COMMUNITY DEVELOPMENT AND APPLIED ECONOMICS MAJORS

Community Entrepreneurship B.S.

Community and International Development B.S.

Public Communication B.S.

MINORS

COMMUNITY DEVELOPMENT AND APPLIED ECONOMICS MINORS

Applied Design

Community Entrepreneurship

Community and International Development

Consumer Affairs

Consumer and Advertising

Food Systems

Green Building and Community Design

Public Communication

GRADUATE

Community Development and Applied Economics M.S.
See Schedule of Courses for specific titles.

**Courses**

**CDAE 001. Drafting and Design Drawing. 3 Credits.**
Basic drafting methods and procedures of architectural, three-view, oblique, isometric, and perspective drawings. Creating freehand pictorial presentation drawings.

**CDAE 002. D2: World Food, Pop & Develop. 3 Credits.**
Agricultural development emphasizing natural and economic phenomena and the effect of food supplies on population trends and policies.

**CDAE 003. D2: Intr to Dev Carib & Cent Am. 3 Credits.**
This interdisciplinary course introduces students to the culture, history, diversity, geography and the impact of ethnicity, poverty and oppression on development in the Caribbean and Central America.

**CDAE 006. Energy Alternatives. 3 Credits.**
Concepts of energy, work, and power. Energy conversion, utilization, and conservation. Alternatives to fossil fuels including solar, wind, biomass, etc. Energy systems for rural areas.

**CDAE 014. Visual Design Studio. 1 Credit.**
A computer based portfolio development class focused on learning the fundamentals of composition and standard graphic software to create a range of visual communication solutions. Prerequisite: PCOM majors only.

**CDAE 015. Visual Communication. 3 Credits.**
Introduction and analysis of aesthetics and function of design in the context of communications and marketing, the built environment and community development.

**CDAE 016. Digital Illustration. 3 Credits.**
Digital illustration introduces methods of conceptualizing and executing illustrations to solve communication problems, using a range of techniques within vector and raster-based software applications. Prerequisite: CDAE 015 or equivalent.

**CDAE 024. Fund of Public Communication. 3 Credits.**
This course provides students with the foundation for understanding communication components, processes, contexts, and applications and introduces research and theory through critique and case study.

**CDAE 030. Applied Design Studio: Wood. 0 or 3 Credits.**
Common methods, processes, materials, and equipment employed in transforming wood into useful products. Includes green building principles.

**CDAE 061. Principles of Comm Development. 3 Credits.**
Introduction to principles of microeconomics and their application to food and agricultural markets, resource management, and community development.

**CDAE 091. Introductory Special Topics. 1-6 Credits.**
See Schedule of Courses for specific titles.
CDAE 129. Communication Law. 3 Credits.
Legal issues in mass media, including: freedom of speech; libel; invasion of privacy; obscenity and indecency; copyright and trademark. Prerequisites: CDAE 024 and Junior standing.

CDAE 131. Appl Des Studio: Lt Frame Bldg. 3 Credits.
Site planning, building planning, material selection. Functional and structural considerations including heating, ventilating, and insulation. Consideration of environmental relationships. Prerequisite: CDAE 006 or MATH 009 or MATH 010.

CDAE 137. Landscape Design Fundamentals. 4 Credits.
Studio course to learn techniques of landscape design and analysis, develop graphic communication skills for representing the landscape, and apply sustainable design principles to a site. Pre/co-requisites: Junior standing; at least one course in drawing, design, or mapping, or permission of the Instructor. Cross-listed with: PSS 137, ENVS 137, NR 137.

CDAE 157. Consumer Law and Policy. 3 Credits.
Law as an expression of public policy to protect consumers in the marketplace. Emphasis on laws prohibiting deceptive advertising and marketing practices. Prerequisites: ENGS 001 - ENGS 099, CDAE 024, or CDAE 061. Sophomore standing.

CDAE 158. Personal and Family Finance. 3 Credits.
An examination of personal and family financial management concepts and topics within various income levels and stages in the life cycle. Prerequisite: EC 011 or equivalent. Fall.

CDAE 159. Consumer Assistance Program. 3-6 Credits.
Jointly sponsored by UVM and Vermont Attorney General. Under supervision of an attorney, students respond to phone and mail requests for consumer information and handle consumer complaints. Prerequisites: CDAE 157 or Instructor permission.

CDAE 166. Intro to Comm Entrepreneurship. 3 Credits.
Introduction to the theory and practice of developing and operating an entrepreneurial activity based on specific business. Emphasis on business development, operation, financing, marketing, and social responsibility. Prerequisites: One of the following: CDAE 002, CDAE 061, or equivalent course.

CDAE 167. Fin Mgmt: Comm Entrepreneurs. 0 or 4 Credits.
Understanding and creating business and personal financial records for entrepreneurs including applications common to entrepreneurial business practices using contemporary financial software. Prerequisites: CDAE 166 or Instructor permission; must take lab.

CDAE 168. Marketing: Comm Entrepreneurs. 3 Credits.
Marketing concepts and methods and their applications for community entrepreneurs. Focus on development of marketing plan and its use in guiding business operations. Prerequisites: CDAE 061 or equivalent.

CDAE 169. Data Management & Analysis. 3 Credits.
Using technology to accomplish tasks specific to entrepreneurs. May include spreadsheets, databases, presentations, mapping, markets, WWW, and project management. Prerequisites: CDAE 085 or equivalent.

CDAE 170. Solar Strategies Bldg Constrct. 3 Credits.
Passive, active, and hybrid heating; photovoltaic electric systems. Physical principles, site evaluation, component and system analysis, materials selection, and design of low-cost systems. Prerequisites: MATH 010 and CDAE 001, CDAE 101 or equivalent.

CDAE 171. Community&Int’l Econ Transform. 3 Credits.
Models of economic development, including constraints to economic transformation and policy approaches and strategies for promoting social welfare and sustainable development. Prerequisites: CDAE 002; Instructor permission required.

CDAE 175. Farm Credit Fellowship Prac/Sem. 1 Credit.
Acquaints students who have a strong interest in farm management and farm finance with financial intermediaries serving agriculture. Prerequisite: CDAE 167.

CDAE 186. Sustain Dev Sm Island States. 4 Credits.
This course is a general introduction to problems of sustainable development on small island developing states utilizing a case study of St. Lucia, West Indies. Prerequisites: CDAE 002 or CDAE 061; Instructor permission.

CDAE 191. Special Problems. 1-12 Credits.
Independent projects under direction of a faculty member. Includes undergraduate teaching assistance. Prerequisite: Instructor permission; One to six hours (maximum).

CDAE 195. 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 196. Field Experience/Practicum. 1-15 Credits.
Professionally-oriented field experience under joint supervision by faculty and community representative. Prerequisite: Instructor permission. Total credit toward graduation in CDAE 196 and CDAE 296 cannot exceed fifteen hours.

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 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 224. Public Communication Capstone. 3 Credits.
Students work with non-profit and municipal community partners to develop professional level communications strategies and materials. Students complete their professional public communication portfolios and resumes. Prerequisites: Senior standing; CDAE 024, CDAE 015, and CDAE 121 or CDAE 120.

CDAE 231. Applied Computer Graphics. 3 Credits.
Directed research, planning, design, technical experimentation, production and evaluation for computer-generated design application. Prerequisite: CDAE 015 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: Minimum Junior standing; PSS 137 or one course in ecology plus one course in design or drawing. Cross-listed with: PSS 238, ENV 238, NR 238.

CDAE 250. Applied Research Methods. 0 or 4 Credits.
Methods used in the collection and analysis of qualitative and quantitative data. Critical review of literature, and data collection, analysis, and interpretation for descriptive, inferential, and evaluation research. Prerequisites: One of the following: STAT 141, STAT 111, or equivalent course; must register for CDAE 250 lab.

CDAE 251. Contemp Policy Iss:Comm Devel. 3 Credits.
In-depth study of sustainable development policy issues, with emphasis on understanding systematic interactions among economic development, biodiversity conservation, climate change, energy, food and watershed planning. Prerequisites: One of the following: CDAE 102, CDAE 171, CDAE 186, or equivalent course.

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 255. Applied Consumption Economics. 3 Credits.
Analysis and application of micro-economic principles as they relate to consumers, including consumption and saving, investments in human capital, market work, household production, and leisure choices. Prerequisites: CDAE 102 or equivalent.

CDAE 258. Consumer Policy:Iss & Analysis. 3 Credits.
Examination and analysis of contemporary issues underlying a variety of consumer policies such as health care, income inequality, and consumer protection. Prerequisites: CDAE 254 or Instructor permission; POLS 021 or similar course. Spring.

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 required.

CDAE 272. Int’l Economic Development. 3 Credits.
International trade, finance, investment and development theories and policies for community development. Prerequisites: CDAE 102 or equivalent. Co-requisite: CDAE 273.

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 291. Special Problems. 1-6 Credits.
Independent projects under the direction of a faculty member. Includes undergraduate teaching assistance. Prerequisite: Department permission. Students may enroll more than once for a maximum of twelve hours.

CDAE 292. Seminar. 1-3 Credits.
Reports, discussions, and investigations in selected fields. May enroll more than once up to six hours.

CDAE 295. Special Topics. 1-12 Credits.
Lectures or readings on contemporary issues in Community Development and Applied Economics. Enrollment may be more than once, up to twelve hours.

CDAE 296. Field Experience/Practicum. 1-18 Credits.
Professionally-oriented field experience under joint supervision by faculty and business or community representative. Total credit toward graduation in CDAE 196 and CDAE 296 cannot exceed 15 credits.

CDAE 297. Undergraduate Research. 3 Credits.
Work on a research problem under direction of a staff member. Findings submitted in written form as prescribed by the department. Prerequisite: Senior standing.

CDAE 298. Undergraduate Research. 3 Credits.
Work on a research problem under direction of a staff member. Findings submitted in written form as prescribed by the department. Prerequisite: Senior standing.