

DEPARTMENT OF COMMUNITY DEVELOPMENT AND APPLIED ECONOMICS

<http://www.uvm.edu/cals/cdae> (<http://www.uvm.edu/cals/cdae/>)

The social, economic, and environmental 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 principles, theories, and practical skills from the social, economic, and environmental fields to identify community needs, analyze problems and advance sustainable and resilient solutions in partnership with organizations and communities.

THE CDAE MISSION

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

CDAE offers four innovative majors: Community-Centered Design, Community Entrepreneurship, Community and International Development, and Public Communication. 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 six minors: Community Entrepreneurship; Community and International Development; Public Communication; Applied Design; Consumer and Advertising; and Green Building and Design. CDAE also participates in the College of Agriculture and Life Sciences interdepartmental Food Systems and Biosecurity minors as well as the intercollege Sports Management Minor.

Expertise among the CDAE faculty includes economics (ecological, neoclassical, and behavioral), public policy, design innovation, community entrepreneurship, consumer affairs, food systems, rural sociology, journalism, and communication. CDAE’s research and outreach is global (e.g., Peru, St. Lucia, Brazil, Kenya, Puerto Rico) and local (e.g., social marketing, community organizing, and local community initiatives).

GENERAL REQUIREMENTS

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

CDAE 002	D2:SU:World Food,Pop & Develop	3
CDAE 024	Fund of Public Communication	3
CDAE 061	SU:Principles of Comm Dev Econ	3
CDAE 102	Sustainable Community Dev	3

CDAE 127	Consumer,Markets&Public Policy	3
CDAE 250	Applied Research Methods	4
Additionally required are:		
POLS 021	American Political System	3
CALS 001	Foundations:Communication Meth	3
or CALS 183	Communication Methods	
CALS 002	Foundation:Information Tech	3
or CALS 085	Computer Applications	
Two courses from the Humanities and Fine Arts		
Two Physical and Life Sciences (no lab requirement)		
One 3-credit university-approved Sustainability Course		
Two 3-credit university-approved Diversity courses		
CCD and PCOM Majors Only - the following are also required:		
MATH 009	QR: College Algebra (or higher)	3
STAT 111	QR: Elements of Statistics (or higher)	3
CID and CENT Majors Only - the following are also required:		
MATH 019	QR: Fundamentals of Calculus I (or higher)	3
STAT 141	QR:Basic Statistical Methods 1	3
or STAT 111	QR: Elements of Statistics	

UVM & VERMONT LAW SCHOOL 3+2 PROGRAM:

A significant number of UVM students consider attending law school immediately or a few years after graduation. UVM is successful in placing its graduates in leading law programs around the country, including Yale University, New York University, Columbia University, and the University of Michigan.

The University of Vermont (UVM) and Vermont Law School (VLS) offer unique 3+2 and 3+3 dual-degree programs. The dual-degree programs enable highly-focused students to earn both degrees in less time and at less cost from two distinguished institutions. In addition to the dual-degree programs, VLS offers a guaranteed admission program for UVM graduates. Learn more (<http://catalogue.uvm.edu/undergraduate/admissioninfo/articulationagreements/>) about the dual-degree and guaranteed admission programs.

The University of Vermont provides guidance to its pre-law students through the Career Center and faculty and staff advisors in CALS. The college begins working with students as soon as they express an interest in law and provide guidance throughout their undergraduate career. Unlike pre-medical programs, where students must take a

prescribed set of courses, there is no pre-law curriculum. “What law schools seek in their entering students is not accomplishment in mere memorization,” states the Association of American Law Schools, “but accomplishment in understanding, the capacity to think for themselves, and the ability to express their thoughts with clarity and force.”

MAJORS

COMMUNITY DEVELOPMENT AND APPLIED ECONOMICS MAJORS

Community and International Development B.S. (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/communitydevelopment/communityinternationalbs/>)

Community-Centered Design B.S. (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/communitydevelopment/commdesignbs/>)

Community Entrepreneurship B.S. (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/communitydevelopment/communityentrepreneurshipbs/>)

Public Communication B.S. (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/communitydevelopment/publiccommunicationbs/>)

MINORS

COMMUNITY DEVELOPMENT AND APPLIED ECONOMICS MINORS

Applied Design (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/communitydevelopment/applieddesignminor/>)

Biosecurity (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/communitydevelopment/biosecurityminor/>)

Community and International Development (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/communitydevelopment/communityinternationaldevminor/>)

Community Entrepreneurship (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/communitydevelopment/communityentrepreneurshipminor/>)

Consumer and Advertising (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/communitydevelopment/consumeradvertisingminor/>)

Food Systems (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/foodsystems/foodsystemsminor/>)

Green Building and Community Design (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/communitydevelopment/greenbuildingminor/>)

Public Communication (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/communitydevelopment/publiccommunicationminor/>)

Sports Management (<http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/communitydevelopment/sportsmanagementminor/>)

GRADUATE

Community Development and Applied Economics AMP

Community Development and Applied Economics M.S.

Public Administration AMP

Public Administration M.P.A.

Sustainable Development Policy, Economics, and Governance Ph.D.

See the online Graduate Catalogue (<http://catalogue.uvm.edu/graduate/>) for more information

Courses

CDAE 001. Drafting & Design in SketchUp. 3 Credits.

Creating pictorial presentation and 3D model drawings using SketchUp software. Basic methods and procedures of architectural, three-view, oblique, isometric, and perspective computer-aided drawings.

CDAE 002. D2:SU: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 004. D1:US Food, Social Equity &Dev. 3 Credits.

Provides an introduction to gender, race, class, and ethnicity with particular emphasis on food, population, economic, and ecological issues in sustainable agriculture, food systems, and community development. The geographical focus emphasizes the United States.

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: Public Communication 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, ARTS 002, or permission.

CDAE 018. Communication Design I. 3 Credits.

Directed projects which explore the elements and principles of communication design. Design research, process, experimentation, and production in hand-based and computer-generated design application for multi-modal presentations.

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 032. Protect Your Privacy. 2 Credits.

Every detail about individuals' lives is shared, bought, sold, monetized, and sometimes stolen. This practical course explores privacy threats, legal protections, and tools that exist to protect privacy.

CDAE 040. Small Group Communication. 3 Credits.

An introduction to small group communication theories, research, and skills. Discussion and group activities focus on communication that fosters effective, creative, inclusive, and transdisciplinary teaming in a variety of practical situations and community-based contexts.

CDAE 041. CareerBuilder: Plan Your Future. 2 Credits.

Students use design thinking principles to imagine their future at UVM and beyond. Explore majors, minors, and careers before developing a personalized plan for acquiring the knowledge, skills, and experiences needed to fulfill this vision. All students welcome.

CDAE 044. Career Builder: Resumes & More. 2 Credits.

Uses persuasion theory to develop a resume, cover letter, and professional philosophy statement that reflects an individual's unique professional brand.

CDAE 045. Career Builder: LinkedIn. 2 Credits.

Learn how to use LinkedIn to build or strengthen your professional profile, find your next job or internship, and grow your professional network. Develop communication competence and confidence relevant to your unique experiences and career goals.

CDAE 060. Design Innovation I. 3 Credits.

Design is essential to creating innovative, useful, and effective solutions to meet complex real-world needs. Design Innovation I offers an introduction to design theories and processes, understanding historic and contemporary contributions, and exploring applications across various fields of practice.

CDAE 061. SU: Principles of Comm Dev Econ. 3 Credits.

Introduction to principles of microeconomics and their application to food and agricultural markets, resource management, and community development.

CDAE 066. Think Like an Entrepreneur. 2 Credits.

For students curious about entrepreneurship. Examines the entrepreneurial mindset - characteristics and competencies of entrepreneurs; explores entrepreneurship in all types of organizations and how the entrepreneurial mindset can support the success of any venture.

CDAE 091. Introductory Special Topics. 1-6 Credits.

See Schedule of Courses for specific titles.

CDAE 093. 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 095. Special Topics. 1-18 Credits.

See Schedule of Courses for specific titles.

CDAE 096. Internship. 1-3 Credits.

On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

CDAE 101. Drafting & Design: SketchUp II. 3 Credits.

Using a computer to create, manipulate, and record drafting and design concepts, symbols, and conventions to prepare technical and/or presentation drawings at the intermediate level. Students will learn in applied context relating to real world needs. Prerequisite: CDAE 001 or Instructor permission.

CDAE 102. Sustainable Community Dev. 3 Credits.

Introduction to perspectives and methods used to develop healthy communities that are economically, socially, and environmentally sustainable with rural and urban, U.S. and international examples. Prerequisites: CDAE 002, ENVS 002, or Instructor permission.

CDAE 105. SU: Food Waste to Value. 3 Credits.

Hands-on learning in generating alternative and sustainable sources of energy and valued byproducts from waste streams for enhancing food safety and community development applications along with fossil fuel reduction. Prerequisites: CDAE 002, CDAE 006, CDAE 061, PSS 010, PSS 021, or ENVS 002.

CDAE 108. Comparative Food Systems. 3 Credits.

Explores food production systems looking at social, economical, environmental dimensions; draws from multiple disciplines such as economics, sociology, agronomy, biology, geography, and history; critically explore scales of agriculture from very small-scale to very large. Prerequisite: CDAE 002, CDAE 004, or NFS 073. Cross-listed with: FS 102.

CDAE 111. Design: Narrative Media & Video. 3 Credits.

Focus on storytelling techniques through video production. Covers technical skills like basic camera usage, video/sound editing, compositing/effects, and Adobe Creative Suite. Focus is given to major elements such as image, sequence and time to explore theory and develop visual content for storytelling through video. Prerequisite: CDAE 015 or Instructor permission.

CDAE 112. Social Media:Theory 2 Practice. 3 Credits.

Explores social media from theoretical and professional practical perspectives, immersing students in the complex and multifaceted world of social media communication. Prerequisites: CDAE 024, CDAE 015, CALS 002, or CALS 085.

CDAE 113. Activist Journalism. 3 Credits.

Students research and produce multimedia news stories that promote a social justice cause of their choice. Using traditional journalistic approaches and new digital media tools, students will investigate, publish, and distribute stories with a local, national, and global impact. Prerequisites: CDAE 024 or ENVS 001 or ENGS 001 or FWIL Course or TAP Course; minimum Sophomore standing.

CDAE 114. Doc. Film for Social Change. 3 Credits.

Documentaries can leverage social change through education, fundraising, or urging political action; the results are hardly guaranteed. Introduces the study of documentaries as they relate to social change, environmental, and community development movements; focusing on film and context. Prerequisites: CDAE 002, CDAE 024, FTS 007, FTS 008, FTS 009, or FTS 010.

CDAE 116. Communication Design II. 3 Credits.

Explores visual communication through advanced projects in design research, planning, iteration, technical and software experimentation, and production for multi-modal design applications. Prerequisite: CDAE 018.

CDAE 119. Event Planning for Athletics. 3 Credits.

Focuses on providing students basic knowledge and skills of event planning with real-life experiences. Topics covered include sponsorship, fundraising, marketing, promotions, branding, ticket operations, social media, event operations, and risk management in support of event production. Prerequisites: ENGS 001, CDAE 024, or Instructor permission.

CDAE 120. Strategic Writing for PCOM. 3 Credits.

Students learn to write standard messages and documents including e-mail, memos, letters to the editor, fundraising letters, news releases, brochures, and feature stories. Prerequisites: CDAE 024, ENGS 001, or ENGS 050; Public Communication majors/minors only.

CDAE 121. News Writing Across Media. 3 Credits.

Students learn to report and write news for print, online, and broadcast formats through practical application of media literacy skills and study of current events. Prerequisite: ENGS 001 or ENGS 050.

CDAE 123. Media-Policy-Action. 3 Credits.

Examines the connections between media, public policy, and policy outcomes. Provides hands-on learning (action) experiences in news reporting and policy-making through the lens of the Vermont Legislature and Vermont's policy and media culture. Prerequisites: Any of the following: ENGS 001, ENGS 050, POLS 021, CDAE 002, CDAE 015, CDAE 024.

CDAE 124. Public Communication Media. 3 Credits.

Students gain insight into mass media and contemporary issues, social marketing with local Service Learning agency partners, social polling, and the interaction of media, governance, law, and ethics. Prerequisite: CDAE 024.

CDAE 127. Consumer,Markets&Public Policy. 3 Credits.

Analysis of consumer choices through the examination of consumer behavior theories, current marketplace issues and public policy. Prerequisite: One of the following: CDAE 024, CDAE 015, ENGS 001, ENGS 050, or permission.

CDAE 128. Strategic Communication. 3 Credits.

Examination of strategic communication and how it impacts consumers and the economy. Extensive application of critical analysis to actual strategic communication campaigns from development through evaluation including advertising and other consumer-related ends. Prerequisites: CDAE 015 or CDAE 024.

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. Prerequisite: CDAE 024.

CDAE 132. Hackers+Data Srvelnce:Priv Law. 3 Credits.

Covers the landscape of privacy issues from government surveillance to Big Data, security breaches, online and real world location tracking, social media, privacy as a growing field, and other issues. Prerequisites: CDAE 002, CDAE 032 or MMG 002.

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: ENVS 137, NR 137, PSS 137.

CDAE 140. Leadership in Practice. 3 Credits.

Study of leadership theory and how it informs the practice of leadership. Focus on applying leadership theory to personal practice learning how leadership affects the changes that organizations face. Prerequisite: CDAE 024.

CDAE 141. Crisis Communication. 3 Credits.

Explores how organizations, corporations, and individuals communicate successfully during a crisis. Through in-class simulations, presentations by local civic leaders, PR professionals, reporters, press conferences, and creating crisis communications plans for a local business or nonprofit, students learn how crisis communications managers prepare to manage crises. Prerequisites: CDAE 024, CDAE 032, CDAE 128 or PSS 133.

CDAE 143. Sports Media. 3 Credits.

A hands-on video production class broken into three sections: sporting event coverage working with CATAMOUNT TV, sports journalism collaborating with The Vermont Cynic, and contributions scaffolding into a sports documentary with ESPN's 30-for-30 as a model. Prerequisites: ENGS 001, CDAE 024, or EDPE 220.

CDAE 144. Community Media Production. 3 Credits.

A hands-on media-based class in which students work collaboratively, producing one long-form documentary or many short-form videos about a local community member, issue, or campaign. Students produce media for entertainment, social media, and informational purposes and learn what community media is and how it can develop community. Prerequisite: CDAE 024.

CDAE 145. Propaganda, Media, & Cit Respn. 3 Credits.

Develops critical thinking skills about news media. Studies propaganda, media ownership, and the use of print media, radio, television, and the internet, to influence the public through various propaganda techniques from 1900 to present. Prerequisite: CDAE 015 or CDAE 024 or Instructor permission.

CDAE 152. The Good Life: Place Matters. 2 Credits.

An opportunity to think critically about the unique relationships among communities, organizations, and professionals. Uses community development and applied economics theory to analyze the fit between personal and professional values, organizational culture, and community development initiatives. Job search and recruitment skills are emphasized. Prerequisites: CDAE 024 or CDAE 041 or CDAE 044 or CDAE 045.

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 057, CDAE 024, or CDAE 061; Sophomore standing.

CDAE 158. Personal Financial Literacy. 3 Credits.

Personal financial literacy is the possession and ability to use skills and knowledge that allows people to make informed and effective decisions with all of their financial resources. This applied course examines personal financial concepts and topics within various income levels/life. Prerequisites: CALS 002 or CALS 085 or CS 002 or higher or MATH 009 or higher, or equivalent.

CDAE 159. Consumer Law in Action I. 3 Credits.

Under supervision of an attorney, students respond to real-world phone, online, and mail requests for consumer information and handle consumer complaints to connect consumers with appropriate and effective resources, professionals, and protections. Sponsored with the Vermont Attorney General's Office. Prerequisite: CDAE 157 or Instructor permission.

CDAE 160. Design Innovation II. 3 Credits.

Emphasizes the human-processes for successful design innovation across myriad real-world contexts rather than design innovation within any one context area. Broad range of design applications/interests will include but not be limited to: Universal Design, Communication Design, Landscape/Architectural Design, Ecological/Environmental Design, and Community Planning, Urban +Rural Design. Prerequisite: CDAE 060.

CDAE 164. Design+Cultural Entrepreneurship. 3 Credits.

Examines models of cultural entrepreneurship focusing on local creative communities, makerspaces, incubators etc that serve as models for design analysis within cultural ecosystems. Lectures with practitioners, incubator visits, and community/studio-based projects, students will synthesize research to envision creative economic opportunities. Prerequisite: CDAE 002 or CDAE 061 or CDAE 024 or CDAE 015 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 permission.

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. Prerequisite: CDAE 166 or Instructor permission; must take lab.

CDAE 168. SU:Marketing:Com 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. Prerequisite: CDAE 061 or permission.

CDAE 170. Green Building Energy Systems. 3 Credits.

Covers all things related to energy flows in the built environment. Housing and building energy systems will be a focus, as will things like landscaping, community design, and the social behaviors around energy usage and systems. Prerequisites: CDAE 001 or CDAE 002 or CDAE 006.

CDAE 171. Community&Int'l Econ Transform. 4 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 172. Sust. Development Travel Study. 3 Credits.

Through the lens of sustainable development, this experiential travel course will increase and refine students' pre-professional experience in areas such as cultural competency, community development, food systems, public health, conservation, education, gender roles, power relations, politics, and reciprocity. Prerequisite: CDAE 002.

CDAE 173. Evolving Trends in Int'l Devel. 3 Credits.

Examines how donor countries have approached international development since World War II. Includes focus on a range of issues including health, agriculture, conflict resolution, democracy and governance, shifting terms of trade and globalization's effects on international development. Prerequisite: CDAE 002 or POLS 021 or POLS 041 or POLS 051 or POLS 071 or ENVS 002.

CDAE 174. Global Media & Intl Developmen. 3 Credits.

Focuses on an understanding of global communication issues related to international development. Examines different aspects of global communication, such as world press systems, codes of ethics, new world information and communication order, cultural imperialism and public diplomacy. Prerequisite: CDAE 002, CDAE 024, CDAE 061, ENVS 002, or SOC 043.

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 176. Communicating Science. 3 Credits.

Science communication theories, contexts, and practices. Students examine the relationship between science and society before developing written, visual, spoken, and mediated messages promoting respect and shared understandings of science among researchers, journalists, public relations specialists, policy officials, and the public. Prerequisite: CDAE 024.

CDAE 178. Socially Responsible Marketing. 3 Credits.

Addresses communication with the public to build stronger, healthier, safer communities. Students use public communication skills to craft messages for a defined audience and consider how public/private entrepreneurs/organizations can help solve societal problems, particularly related to college-aged audiences.

CDAE 186. Community Developmt:St Lucia I. 3 Credits.

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 187. Community Developmt:St Lucia II. 1 Credit.

The travel component to CDAE 186. Prerequisite: CDAE 186.

CDAE 191. 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. Prerequisite: Instructor permission.

CDAE 194. Teaching Assistantship. 1-3 Credits.

Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

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. Internship. 1-15 Credits.

On-site supervised work experience combined with a structured academic learning plan directed by a faculty the instructor of record, for which academic credit is awarded. Total credit toward graduation in CDAE 196 and CDAE 296 cannot exceed fifteen hours. Offered at department discretion. Prerequisite: Instructor permission.

CDAE 198. Undergraduate Research. 1-18 Credits.

Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

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. The Real Cost of Food. 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 PSS 212 or equivalent. Cross-listed with: PSS 218.

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 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 Dev. 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. Pre/Co-requisite: CDAE 254 or EC 172.

CDAE 259. Consumer Law in Action II. 3 Credits.

Practicum providing experience working as an advanced consumer advocate in the Consumer Assistance Program office. Builds on CDAE 159 experience with students addressing more complex consumer complaints and inquiries as well as leading student teams. Jointly sponsored with the Vermont Attorney General's Office. Prerequisites: CDAE 159 and Instructor permission.

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 CALS 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 271. Local Community Initiatives. 3 Credits.

Provides a robust understanding of the history of Vermont community development; ongoing Vermont projects; ideas and plans for maintaining and invigorating the local community and future economy. Students work with community partners to identify and prioritize community needs and develop a project to address those. Prerequisite: CDAE 102.

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 278. Applied Community Planning. 3 Credits.

Project-based community planning studio; students work collaboratively with community partners. Topics vary in response to the project and will typically include visioning, strategic action planning, community engagement and facilitation techniques, values-based decision making, mapping, and creative placemaking. Prerequisite: CDAE 102, NR 104, or PSS 137.

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 291. 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. Prerequisite: Department permission.

CDAE 294. Teaching Assistantship. 1-3 Credits.

Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

CDAE 295. 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 296. Internship. 1-15 Credits.

On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Total credit toward graduation in CDAE 196 and CDAE 296 cannot exceed 15 credits. Offered at department discretion.

CDAE 298. Undergraduate Research. 1-18 Credits.

Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion. Prerequisite: Senior standing.