DEPARTMENT OF COMMUNITY DEVELOPMENT AND APPLIED ECONOMICS

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 prepares students to contribute to society, conduct research, and engage in service for the development of resilient, inclusive, and just communities in an era of unprecedented change. Students learn how to create and implement transdisciplinary solutions through applied learning and community engagement for the public good.

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 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:

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CDAE 1020</td>
<td>World Food, Pop &amp; Develop</td>
<td>3</td>
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<tr>
<td>CDAE 1240</td>
<td>Fund of Public Communication</td>
<td>3</td>
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<tr>
<td>CDAE 1610</td>
<td>Principles of Comm Dev Econ</td>
<td>3</td>
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<tr>
<td>CDAE 2020</td>
<td>Sustainable Community Dev</td>
<td>3</td>
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<tr>
<td>CDAE 2270</td>
<td>Consumer, Markets &amp; Public Policy</td>
<td>3</td>
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<tr>
<td>CDAE 3500</td>
<td>Applied Research Methods</td>
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Additionally required are:

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>POLS 1300</td>
<td>US Political System</td>
<td>3</td>
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<tr>
<td>CALS 1010</td>
<td>Foundations: Communication Meth</td>
<td>3</td>
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<tr>
<td>or CALS 2830</td>
<td>Communication Methods</td>
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<tr>
<td>CALS 1020</td>
<td>Foundation: Information Tech</td>
<td>3</td>
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<tr>
<td>or CALS 1850</td>
<td>Computer Applications</td>
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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:

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<tr>
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<tr>
<td>MATH 1012</td>
<td>College Algebra (or higher)</td>
<td>3</td>
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<tr>
<td>STAT 1110</td>
<td>Elements of Statistics (or higher)</td>
<td>3</td>
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<tr>
<td>MATH 1212</td>
<td>Fundamentals of Calculus I (or higher)</td>
<td>3</td>
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<tr>
<td>or STAT 1110</td>
<td>Elements of Statistics</td>
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UVM & VERMONT LAW & GRADUATE SCHOOL DUAL DEGREE 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 & Graduate School (VLGS) 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, VLGS offers a guaranteed admission program for UVM graduates. Learn more 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.
Community-Centered Design B.S.
Community Entrepreneurship B.S.
Public Communication B.S.

MINORS
COMMUNITY DEVELOPMENT AND APPLIED ECONOMICS MINORS
Applied Design
Biosecurity
Community and International Development
Community Entrepreneurship
Consumer and Advertising
Food Systems
Green Building and Community Design
Public Communication
Sports Management

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 for more information

Courses
CDAE 1010. Drafting Design I. 3 Credits.
Creating pictorial presentation and 3D model drawings using computer software. Basic methods and procedures of architectural, three-view, oblique, isometric, and perspective computer-aided drawings.

CDAE 1020. World Food, Pop & Develop. 3 Credits.
Agricultural development emphasizing natural and economic phenomena and the effect of food supplies on population trends and policies. Catamount Core: D2, GC1, SU.

CDAE 1030. 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. Catamount Core: D2.

CDAE 1040. 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. Catamount Core: D1, S1.

CDAE 1060. 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 1150. 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. Catamount Core: AH1.

CDAE 1160. 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. Prerequisite: Community Development & Applied Economics major or minor; or Instructor permission.

CDAE 1170. 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 1150 or ARTS 1400; Community Development & Applied Economics major or minor; or Instructor permission.

CDAE 1240. Fund of Public Communication. 3 Credits.
Provides the foundation for understanding communication components, processes, contexts, and applications and introduces research and theory through critique and case study. Catamount Core: GC2.

CDAE 1320. 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 1400. 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 1450. 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 1600. 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 1610. 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. Catamount Core: S1, SU.

CDAE 1660. 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 1850. Narrative Data Design. 3 Credits.
Information graphics are a powerful tool to present complex data. Introduces the history of infographics, data visualization and best practice of narrative data design. Provides students both the technical and creative skills to transform data into effective reports and dashboards for various industries and organizations. Basic Adobe Illustrator proficiency required. Prerequisite: CDAE 1160 or CDAE 1170.

CDAE 1990. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

CDAE 1991. 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 1993. 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 2010. Drafting Design 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 1010 or Instructor permission.

CDAE 2020. 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 1020, ENVS 1510, or Instructor permission. Catamount Core: S1.

CDAE 2080. 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 1020, CDAE 1040, or NFS 1073. Cross-listed with: FS 2020.

CDAE 2110. 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 1150 or Instructor permission.

CDAE 2120. 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 1240, CDAE 1150, CALS 1020, or CALS 1850.

CDAE 2130. 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 1240 or ENVS 1500 or ENGL 1001 or FWIL Course or TAP Course; minimum Sophomore standing.

CDAE 2140. 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 1020, CDAE 1240, FTG 1420, FTG 1400, or FTG 1430.

CDAE 2160. 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 1160.
CDAE 2190. 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: ENGL 1001, CDAE 1240, or Instructor permission.

CDAE 2200. 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 1240, ENGL 1001, or ENGL 1740; Public Communication majors/minors only.

CDAE 2210. 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: ENGL 1001 or ENGL 1740.

CDAE 2230. 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: ENGL 1001, ENGL 1740, POLS 1300, CDAE 1020, CDAE 1150, CDAE 1240.

CDAE 2240. 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 1240.

CDAE 2270. 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 1240, CDAE 1150, ENGL 1001, ENGL 1740, or permission.

CDAE 2280. 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 1150 or CDAE 1240.

CDAE 2290. 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 1240.

CDAE 2330. Privacy Law & Policy. 3 Credits.
Privacy and Data Security have become increasingly prominent issues in recent years. Taught by a practicing consumer protection attorney, students will learn the role privacy plays in society, both now and historically, identify and interpret the domestic and internal laws that protect privacy, understand global privacy regimes, and engage in the ongoing privacy debate and prepare for future privacy concerns. Prerequisites: CDAE 1020, CDAE 1240, CDAE 1400, OR CDAE 1610. Cross-listed with: CIS 2330.

CDAE 2370. Landscape Design Fundamentals. 3 Credits.
Introduces students to the history and principles of landscape design. Examines various aspects of built environments with consideration of natural and cultural phenomena, with topics to include: spatial scale, equity, land use, design precedent, soils, plants, water, recreation, transportation, and more. Prerequisite: ALE 1370, ALE 1100, ALE 1210, ENVS 1510, ENVS 1520, NR 1010, NR 1020, or CDAE 1010; minimum Sophomore standing; or Instructor permission. Cross-listed with: ALE 2370, ENVS 2650.

CDAE 2371. Landscape Design Studio. 3 Credits.
Introduces students to the practice and profession of landscape design. Through a series of studio exercises, field trips, and a real-world final design project, explores the landscape design process from site inventories and analyses to conceptual plans and schematic planning, as well as other supporting design deliverables. Prerequisites: ALE 2370, ALE 2560, ARTS 1010, or CDAE 1160; minimum Sophomore standing; or Instructor permission. Pre/Co- requisite: ALE 2370. Cross-listed with: ALE 2371.

CDAE 2400. 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 1240.

CDAE 2420. Communicating Climate Crises. 3 Credits.
Examines efforts to emphasize and elevate the importance of addressing the existential threat posed by climate change while exploring other potential approaches to communicating climate change. Covers: 1) identifying the challenges posed in communicating climate change 2) exploring foundations for thinking about the relationship between communication, environment, and experience 3) developing a repertoire for connecting people with climate through communicative action. Prerequisites: CDAE 1240 or Instructor permission.

CDAE 2430. 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: ENGL 1001, CDAE 1240, or EDPE 3200.
CDAE 2440. 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 1240.

CDAE 2450. 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 1150 or CDAE 1240 or Instructor permission.

CDAE 2460. Publication Design. 3 Credits.
Focuses on strategic development of multipage composition for print and digital formats, creation and selection of imagery and the effective organization of content and visual style to make information accessible, visually engaging, and readable for the intended audience. Prerequisites: CDAE 1150, CDAE 1170 or CDAE 1160, Public Communication major or Applied Design Minor.

CDAE 2570. 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: ENGL 1001, ENGL 1210, CDAE 1240, or CDAE 1610; Sophomore standing.

CDAE 2580. 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 1020 or CALS 1850 or MATH 1012 or higher, or equivalent.

CDAE 2590. 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 2570 or Instructor permission.

CDAE 2600. 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 1600.

CDAE 2660. 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 1020, CDAE 1610, or permission.

CDAE 2670. 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 2660 or Instructor permission; must take lab.

CDAE 2680. 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 1610 or permission. Catamount Core: SU.

CDAE 2720. 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 1020.

CDAE 2730. Evolving Trends in Intl 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 1020 or POLS 1300 or POLS 1200 or POLS 1500 or POLS 1700 or ENVS 1510.

CDAE 2740. 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 1020, CDAE 1240, CDAE 1610, or ENVS 1510.

CDAE 2760. Inclusive Science Communication. 3 Credits.
Science communication theories, contexts, and practices with a focus on inclusion, equity, and intersectionality. 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 1240.

CDAE 2780. 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 2860. Community Development: 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 1020 or CDAE 1610; Instructor permission.

CDAE 2870. Community Development: St Lucia II. 1 Credit.
The travel component to CDAE 2860. Prerequisite: CDAE 2860.

CDAE 2990. 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 2991. Internship. 1-18 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 2991 and CDAE 3991 cannot exceed fifteen hours. Offered at department discretion. Prerequisite: Instructor permission.

CDAE 2993. 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 2994. 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 2995. 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 3070. 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 1610 or equivalent.

CDAE 3080. 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 2020 or PSS 3120 or equivalent. Cross-listed with: PSS 3180. Catamount Core: S1, WIL2.

CDAE 3180. 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 2020 or Instructor permission.

CDAE 3310. Applied Computer Graphics. 3 Credits.
Directed research, planning, design, technical experimentation, production, and evaluation for computer-generated design application. Prerequisite: CDAE 1150 or Instructor permission.

CDAE 3370. 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 2020 or Instructor permission.

CDAE 3500. 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 1410, STAT 1110, or equivalent course. Must register for CDAE 3500 lab.

CDAE 3510. Contemporary Issues: Community Development. 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 2020, CDAE 2710, CDAE 2860, or equivalent course.

CDAE 3530. Macroeconomics for Applied Economics. 3 Credits.
Explore macroeconomic principles and concepts as they affect individuals and businesses in local, regional, national, and global economics. Prerequisites: CDAE 2020 or equivalent.

CDAE 3540. Microeconomics for Applied Economics. 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 2020 or equivalent.

CDAE 3550. 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 3540 or ECON 2450.

CDAE 3590. Consumer Law in Action II. 3 Credits.
Jointly sponsored with the Vermont Attorney General's Office. Builds on CDAE 2590 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 2590 and Instructor permission.

CDAE 3600. 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 2020 or Graduate standing. Cross-listed with: PA 3600.
CDAE 3660. 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 2660, MATH 1212, and CALS 1850 or CALS 1020.

CDAE 3670. 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 2660, CDAE 2670, CDAE 2680, or equivalent course; Senior standing only.

CDAE 3710. 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 2020.

CDAE 3730. 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 2020 or Instructor permission.

CDAE 3760. 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 1150, CDAE 1010, or equivalent.

CDAE 3860. 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 2860 and Instructor permission required.

CDAE 3990. 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 3991. Internship. 1-18 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 2991 and CDAE 3991 cannot exceed 15 credits. Offered at department discretion.

CDAE 3993. 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 3994. 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 3995. 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.

CDAE 4240. 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 1240, CDAE 1150, and CDAE 2210 or CDAE 2200.

CDAE 4990. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.