

**COMMUNITY
SUSTAINABILITY CSUS**

**Department of Community
Sustainability
College of Agriculture and
Natural Resources**

124 Introduction to Sustainable Agriculture and Food Systems
Fall, Spring. 2(2-0) Interdepartmental with Animal Science and Crop and Soil Sciences and Horticulture. Administered by Crop and Soil Sciences. R: Open to undergraduate students or agricultural technology students.

Contemporary research and movements involving agricultural and food system sustainability. Sociocultural factors influencing food and agriculture.

200 Introduction to Sustainability
Fall, Spring. 3(3-0) SA: RD 200, ESA 200

Introduction to sustainability and personal role in sustainability initiatives. Implications of individual actions for key sustainability challenges. Application of sustainability principles and leadership skills in community.

207 Great Lakes: Biology and Management
Spring. 3(3-0) Interdepartmental with Fisheries and Wildlife. Administered by Fisheries and Wildlife.

Living aquatic resources of the Great Lakes, environmental history, and biological resources and their management. Policy issues.

215 International Development and Sustainability
Spring. 3(3-0)

Theories, concepts and themes in international development and sustainability.

221 Seminar in Environmental and Sustainability Careers
Spring. 1(1-0) R: Open to students in the Environmental Studies and Sustainability Major or approval of department.

Societal value of, and opportunities in, environment and sustainability careers. Career planning, including engagement with employers and alumni.

222A Seminar in Instructional Theory I - Agriculture, Food and Natural Resources Education
Fall. 1(1-0) R: Open to undergraduate students.

Professional involvement and introductory instructional theory in formal and non formal agriculture, food and natural resources education. Requires 10 hours of observation in a K-12 Ag, Food, and Natural Resource Education (AFNRE) classroom.

222B Seminar in Instructional Theory II - Agriculture, Food and Natural Resources Education
Fall. 1(1-0) P: CSUS 222A

Principles of experiential learning theory in formal and non formal agriculture, food and natural resources education. Requires 10 hours of observation in a K-12 Ag, Food, and Natural Resource Education (AFNRE) classroom.

222C Seminar in Instructional Theory III - Agriculture, Food and Natural Resources Education
Fall. 1(1-0) P: CSUS 222B

Application of problem-based learning theory in formal and nonformal agriculture, food and natural resources education. Requires 10 hours of observation in a K-12 Ag, Food, and Natural Resource Education (AFNRE) classroom.

223A Seminar in Leadership Theory I - Agriculture, Food and Natural Resources Education
Spring. 1(1-0)

Introductory leadership theory in formal and nonformal agriculture, food and natural resources education.

223B Seminar in Leadership Theory II - Agriculture, Food and Natural Resources Education
Spring. 1(1-0) P: CSUS 223A

Practical applications of leadership theory in agriculture, food and natural resources education within Michigan communities.

223C Seminar in Leadership Theory III - Agriculture, Food and Natural Resources Education
Spring. 1(1-0) P: CSUS 223B

Applied mentoring and leadership evaluation in formal and non formal agriculture, food, and natural resources education.

224 Sustainable Farm and Food Systems Field Studies
Fall. 1(0-4) Interdepartmental with Animal Science and Crop and Soil Sciences and Horticulture. Administered by Crop and Soil Sciences. P: CSS 124 R: Not open to freshmen or agricultural technology students.

Field visits to farm and food system operations that utilize sustainable practices in Michigan. Offered first half of semester.

250 Global Issues in Agriculture and Natural Resources
Fall. 3(3-0) Interdepartmental with Agriculture and Natural Resources. Administered by Agriculture and Natural Resources. P: Completion of Tier I Writing Requirement SA: AEE 301

Globalization. Economic, political, and social issues related to natural resources and agricultural production. Historical perspectives and future projections.

259 Sustainable Energy and Society
Spring. 3(3-0) RB: EEM 255 or concurrently

Sustainable fuels and technologies, energy systems, energy transitions, and personal and societal roadblocks to achieving sustainable energy. Energy poverty, justice and decision-making.

265 Exploring Environmental and Sustainability Issues and Policy Using Film
Spring. 3(3-0) RB: Completion of Tier I Writing requirement SA: ESA 235

Environmental and sustainability issues, themes, and perspectives in feature films and documentaries.

273 Introduction to Travel and Tourism
Fall, Spring. 3(3-0) SA: PRR 214

Overview of the travel and tourism industry. History, scope and management of the tourism system. Tourism demand, destination management, major travel segments, tourism marketing.

276 Sustaining Our National Parks and Recreation Lands
Spring. 3(3-0) SA: PRR 210, PRR 211

Scope, history and management of federal, state and local public recreation lands. Future management options strengthening sustainability. Careers in natural resource recreation.

278 Introduction to Conservation, Recreation and Environmental Enforcement
Fall. 1(1-0) Interdepartmental with Fisheries and Wildlife. Administered by Community Sustainability. R: Not open to freshmen.

Scope, history and application of conservation, recreation and environmental law enforcement at the international, federal, state and local level. Integration with traditional policing, resource management and public lands. Career opportunities.

300 Theoretical Foundations of Sustainability
Fall, Spring. 3(3-0) P: ((CSUS 200) and completion of Tier I writing requirement) and (EC 201 or EC 202) R: Open to juniors or seniors or approval of department.

Foundations of sustainability theory. History and evolution of interdisciplinary thought about sustainability. Principles of systems thinking as applied to complex problems. Application of theory in community systems.

301 Community Engagement for Sustainability (W)
Fall, Spring. 3(3-0) P: (CSUS 200) and completion of Tier I writing requirement R: Not open to freshmen.

Application of principles of change theory, citizenship, sustainability, and community engagement at multiple scales. Public and participatory decision making in diverse contexts. Techniques and skills for community engagement. Examination of personal identities as citizens. Leadership and communication challenges in active practice of engagement.

310 History of Environmental Thought and Sustainability
Fall, Spring, Summer. 3(3-0) P: Completion of Tier I Writing Requirement RB: (CSUS 200) and One ISS course or one PSY course or one SOC course. R: Open to sophomores or juniors or seniors. SA: PRR 302

History of attitudes and values associated with the environment, wilderness, environmentalism, conservation, preservation, and sustainability. Perceptions and assessment of modern environmental problems and issues.

320 Environmental Planning and Management
Fall, Spring, Summer. 3(3-0) P: Completion of Tier I Writing Requirement RB: (CSUS 200) and one ISB course and one environmental science course SA: ESA 320, RD 320

Concepts, principles and objectives of planning and management. Demand, supply and impacts of natural resources use. Suitability assessment for sustainable development and land use planning.

Community Sustainability—CSUS

- 322 Leadership for Community Sustainability**
Fall, Spring. 3(3-0) P: Completion of Tier I Writing Requirement RB: CSUS 200 or concurrently SA: ESA 312
Leadership theory, practice, and reflection. Individual and team leadership in the context of community sustainability.
- 343 Community Food and Agricultural Systems**
Fall, Spring, Summer. 3(3-0) P: Completion of Tier I Writing Requirement RB: (CSUS 200) and an introductory social science course SA: ESA 343
Food and agricultural systems. Inputs, production, processing, distribution, consumption and disposal. Industrialization, globalization and centralization of power. Community goals including ecological sustainability, social justice, economic viability and democracy.
- 354 Water Resources Management**
Fall, Spring. 3(3-0) P: Completion of Tier I Writing Requirement RB: (BS 161 or BS 162 or CEM 141 or CSS 210) and CSUS 200 SA: ESA 324
Biophysical, community, and institutional components of comprehensive water resources management. Biophysical and social processes that control the quality and quantity of aquatic resources at the watershed level.
- 418 Community Sustainability Study Abroad**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: CSUS 200 or approval of department R: Approval of department; application required. SA: ESA 475
Study and travel experience emphasizing contemporary problems in sustainability in world, national, and local communities.
- 419 International Studies in Community Sustainability**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: CSUS 200 or approval of department R: Not open to freshmen. Approval of department; application required. SA: ESA 480, RD 480
Contemporary problems affecting community sustainability outside the United States. Ecological, socio-dynamic, and cultural influences on environmental management. Study-travel experience.
- 424 Sustainable Agriculture and Food Systems: Integration and Synthesis**
Fall. 3(3-0) Interdepartmental with Animal Science and Crop and Soil Sciences and Horticulture. Administered by Crop and Soil Sciences. P: CSS 124 and (CSS 224 or concurrently) R: Open to juniors or seniors or graduate students.
Biogeochemical and socio-economic aspects of food, fiber, and fuel production. Environmental impacts and social context. Experiential learning projects.
- 425 Environmental Impact Assessment**
Fall. 3(3-0) P: ((CSUS 200 or CSS 210 or GEO 206 or GLG 201) or approval of department) and completion of Tier I writing requirement RB: CSUS 320 R: Open to juniors or seniors in the Department of Community Sustainability or approval of department. SA: ESA 415
Environmental impact assessment of proposed and built projects and plans. Regulatory frameworks and implementation issues.
- 426 Conservation Planning and Adaptive Management**
On Demand. 3(3-0) P: CSUS 320 and BS 161 or approval of department R: Open to juniors or seniors in the College of Agriculture and Natural Resources or approval of department.
Systematic and adaptive management process for planning conservation projects. Focus on the development of conservation action plans based on the Open Standards for the Practice of Conservation.
- 429 Program Evaluation for Community Sustainability**
Fall. 3(3-0) P: {(MTH 103) and (STT 200 or STT 201)} or (MTH 103 and MTH 114) or MTH 116 or MTH 124) and ((CSUS 200 or EEM 255) and completion of Tier I writing requirement) SA: ACR 415
Concepts, theories, and procedures in program evaluation. Practical methods and skills to plan and implement evaluations of community, agriculture, and natural resources programs.
- 430 Non-Profit Organizational Management for Community Sustainability**
Fall. 3(3-0) P: (CSUS 200 or CSUS 273 or CSUS 276) and completion of Tier I writing requirement R: Open to juniors or seniors or graduate students. SA: CSUS 330, PRR 370
Sustainable management and operation of non-profit organizations. Legal foundations, policy, funding, management responsibilities, ethical decision-making and management functions.
- 431 Interpretation and Visitor Information Systems**
Spring. 3(2-2) P: ((CSUS 200 or CSUS 276) or approval of department) and completion of Tier I writing requirement R: Open to juniors or seniors or graduate students. SA: PRR 451
Interpretation principles and practice for nonformal settings, such as community development organizations, parks, museums, zoos, aquaria, nature and visitor centers, and historic sites. Goals and functions of interpretation for community development, visitor and tourist experience enhancement, achievement of resource and visitor management goals. Planning, implementation, and evaluation of interpretive programs for diverse audiences. Information systems and visitor services. National certification optional. Field trips required.
- 433 Grant Writing and Fund Development**
Fall, Spring. 3(3-0) P: Completion of Tier I Writing Requirement R: Open to juniors or seniors or graduate students. SA: ESA 413, RD 313
Theoretical and practical background for proposal writing. Program and strategic planning. Fund-raising and organizational advancement.
- 445 Community-Based Environmental and Sustainability Education**
Fall. 3(2-2) P: (CSUS 200 or approval of department) and completion of Tier I writing requirement RB: ZOL 355 R: Open to juniors or seniors or graduate students. SA: ESA 435
Methods, materials and theory for non-formal environmental and sustainability education. Focuses on non-profit and agency education programming in conservation, food systems, parks and recreation, and community engagement and outreach. Consideration of relationships among non-formal, informal and K-12 education systems. Field trips required.
- 446 Environmental Issues and Public Policy**
Fall. 3(3-0) Interdepartmental with Integrative Biology. Administered by Integrative Biology. R: Not open to freshmen or sophomores. SA: ZOL 446
Interrelationship of science and public policy in resolving environmental issues. Technical, social, economic, and legal influences. Case study approach.
- 447 Community Economic Development**
Spring. 3(3-0) Interdepartmental with Environmental Economics and Policy and Sociology. Administered by Community Sustainability. P: EC 201 or EC 202 SA: ESA 470, RD 470
Theories, frameworks, policies, concepts, principles, models, and skills for community economic development. Community participation in local development initiatives.
- 453 Watershed Planning and Management**
Spring. 3(3-0) P: CSUS 354
Foundations of watershed planning and management in the United States. Physical, chemical and socioeconomic conditions; legal, financial and institutional dimensions; management alternatives; stakeholders; educational campaigns; evaluation.
- 459 Clean Energy System Policy**
Fall. 3(3-0) P: CSUS 259 or approval of department R: Open to juniors or seniors.
Policies regarding clean energy systems, transitions, and sovereignty. Modeling social, cultural, economic and ecological impacts of clean energy.
- 463 Food Fight: Politics of Food**
Spring of odd years. 3(3-0) Interdepartmental with Sociology. Administered by Community Sustainability. P: CSUS 200 or SOC 100 RB: (CSUS 343) and Familiarity with social science theories and methods R: Not open to freshmen or sophomores.
Social power and its influence in US agrifood system. Structural and cultural issues related to politics of food consumption, production, labor, processing, retail, techno-science, policy, resistance movements.
- 464 Environmental and Natural Resource Policy in Michigan**
Spring. 3(3-0) Interdepartmental with Environmental Economics and Management. Administered by Community Sustainability. P: CSUS 200 or EEM 255 or approval of department SA: ESA 440, RD 440
State legislative process and its role in environmental and natural resource policy formulation. Influence of lobbying, citizen engagement and political factors.

- 465 Environmental and Natural Resource Law**
Fall. 3(3-0) Interdepartmental with Environmental Economics and Management and Forestry. Administered by Community Sustainability. P: CSUS 200 or EEM 255 R: Open to juniors or seniors or graduate students. SA: ESA 430, RD 430
Legal principles and process related to the environment and natural resources. Common law, constitutional law, statutory and administrative law.
- 473 Social Entrepreneurship and Community Sustainability**
Spring. 3(3-0) P: (CSUS 200 or CSUS 273) and completion of Tier I writing requirement RB: A course in micro-economics R: Open to juniors or seniors or graduate students. SA: PRR 473
Start-up and management of private sector, non-profit, and public organizations. Identifying and overcoming the challenges associated with the sustainable operations of small organizations.
- 474 Advanced Topics in Tourism Management**
Spring. 3(3-0) P: CSUS 273 or HB 100 or GEO 259 R: Open to juniors or seniors or graduate students. SA: PRR 474
Tourism as a form of economic and community development. Tourism planning, marketing and management. Tourism and sustainability. Tourism research.
- 476 Natural Resource Recreation Management**
Fall. 4(3-2) P: (CSUS 276 or FOR 101 or FOR 202 or FW 101) and completion of Tier I writing requirement R: Open to juniors or seniors or graduate students. SA: PRR 448
Natural resource recreation management principles, tools and models. Applications to trail, camping, watercraft and dispersed recreation settings. Security of visitors, resources and facilities. Case studies and integrated problem solving. Offered first half of semester.
- 489 Seminar in Zoo and Aquarium Science**
Fall, Spring. 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. Interdepartmental with Fisheries and Wildlife and Integrative Biology and Landscape Architecture. Administered by Integrative Biology. R: Approval of department. SA: ZOL 489
Scientific writing and oral presentations related to zoo and aquarium studies.
- 490 Independent Study in Community Sustainability**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. RB: (CSUS 200) and completion of Tier I Writing requirement R: Approval of department; application required. SA: ACR 490, ESA 490, PRR 490
Individual supervised study of selected topics
- 491 Special Topics in Community Sustainability**
On Demand. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: (CSUS 200) and completion of Tier I Writing requirement R: Open to juniors or seniors. SA: ACR 491, ESA 491, PRR 491
Selected issues in community sustainability derived from current and emerging topics of interest.
- 493 Professional Internship in Community Sustainability**
Fall, Spring, Summer. 3 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. A student may earn a maximum of 6 credits in all enrollments for any or all of these courses: ABM 493, ANR 493, ANS 493, CMP 493, CSS 493, EEP 493, FIM 493, FSC 493, FW 493, HRT 493, PKG 493, and PLP 493. P: (CSUS 200) and completion of Tier I writing requirement R: Open to seniors in the Department of Community Sustainability. Approval of department; application required. SA: ESA 493, PRR 493
Off campus supervised capstone professional experience in an organization related to student's major in the Department of Community Sustainability
- 800 Foundations of Community Sustainability I**
Fall. 3(3-0) R: Open to graduate students in the Department of Community Sustainability. SA: ACR 800 C: CSUS 802 concurrently.
Theoretical and conceptual foundations of community sustainability. Sustainability practice. Introduction to ethics and community engagement for sustainability. Field trips required.
- 801 Foundations of Community Sustainability II**
Spring. 3(3-0) P: CSUS 800 R: Open to graduate students in the Department of Community Sustainability.
Applications of sustainability science and systems thinking for community engagement. Boundary-crossing and organizations. Social change. Sustainability ethics. Facilitation of participatory community processes. Participatory virtues for sustainability. Group dynamics in interdisciplinary and community contexts.
- 802 Introduction to Interdisciplinary Inquiry**
Fall. 3(3-0) R: Open to graduate students in the Department of Community Sustainability. SA: ACR 802 C: CSUS 800 concurrently.
Interdisciplinary, multidisciplinary and transdisciplinary research design. Community engagement as related to research and inquiry. Practical skills for developing inquiry projects.
- 805 Proposal Development for Interdisciplinary Inquiry**
Spring. 1(1-0) P: CSUS 800 and CSUS 802 R: Open to graduate students in the Department of Community Sustainability.
Preparation of proposals for inquiry in practical and research settings. Application of inquiry concepts and practices in designing projects or research. Professional oral and written communications in sustainability inquiry. Processes of peer support and critique. Offered first ten weeks of semester.
- 811 Community, Food and Agriculture: A Survey**
Fall. 3(3-0) SA: ACR 811
Philosophical, socio-economic, health and political issues related to food and farming in the United States.
- 814 Sustainable Tourism and Protected Area Management: Theories and Applications**
Fall of odd years. 3(3-0) SA: ACR 814, PRR 874
Historical antecedents and current concepts of leisure, travel, and tourism. Tourism theory and applications.
- 816 Environmental Design Theory**
Fall. 3(3-0) Interdepartmental with Horticulture and Interior Design and Landscape Architecture. Administered by Landscape Architecture. RB: Undergraduate design degree recommended.
Differences between normative theories, scientific theories, models, and constructs. Exploration of normative theories related to thesis or practicum.
- 820 Social-Ecological Resilience**
Fall of even years. 3(3-0) R: Open to graduate students.
Exploration of adaptation, resilience and transformation in social-ecological systems. Analysis of operationalization and application of these concepts in empirical cases. Limitations of these concepts. Challenges of systemic transformation to deal with global environmental change and uncertainty.
- 821 Indigenous Peoples, Sustainability and Environmental Justice**
Fall of even years. 3(3-0) Interdepartmental with Philosophy. Administered by Community Sustainability. R: Open to graduate students.
Indigenous peoples as major architects of environmental sustainability movements and environmental justice. Climate change adaptation, resilience, food sovereignty, and ecological restoration. Environmental movements, cooperative environmental and climate science, and coalitions for environmental advocacy. Case studies of Great Lakes and global Indigenous peoples in dialogue.
- 823 Contemporary Issues in Animal-Human Relationships**
Fall of even years. 3(3-0) SA: ACR 823
Contemporary issues in animal-human relationships, including agriculture and food systems, local communities, and enclosed parks. Nature as a fluid network of relations including humans, nonhumans, and technologies.
- 824 Sustainable Development**
Spring of odd years. 3(3-0) RB: Prior coursework in microeconomics and sociology SA: ACR 824
Measurement of social and economic welfare at national and local scales. Consumption and economic growth as welfare indicators. Theories of development, utility, and economic growth. Indicators of sustainable development. Environmental and social dimensions of human well-being.

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- 826 International Development: Theory and Practice**
Spring. 3(3-0) Interdepartmental with Anthropology and Forestry and Political Science and Social Science. Administered by Community Sustainability. SA: ACR 826, RD 826
Evolution of international development theory across disciplines. Changing conceptualizations, measurements, processes and effects of development and poverty. Ethnicity, social class, gender, and community influences on socioeconomic processes. Current issues, concerns, and strategic alternatives.
- 829 Economics of Environmental Resources**
Spring. 3(3-0) Interdepartmental with Agricultural, Food, and Resource Economics and Economics and Forestry and Fisheries and Wildlife. Administered by Agricultural, Food, and Resource Economics. RB: Undergraduate intermediate microeconomics, calculus, and statistics SA: AEC 829
Economic principles, theoretical models, and empirical methods related to environmental problems and policy interventions. Applications to air, land, water, forests, energy, fish and wildlife, and climate change, including in developing countries.
- 831 Foundations of Qualitative Research**
Spring. 5(5-0) RB: Prior research experience is helpful SA: RD 812, ACR 831
Qualitative project design. Relationship of epistemology to theory, methodology, and method. Collection and analysis of qualitative data. Project-based. In-depth interviews, focus groups, observation, memos, coding displays, report writing.
- 833 Program Evaluation in Agriculture and Natural Resources**
Spring. 3(3-0) SA: ACR 833
Concepts, theories, procedures and applications of program evaluation. Planning and implementing evaluations of food, agriculture and natural resources programs. Logic models, evaluation plans and instruments, data analysis and written reports.
- 834 Survey Research and Design**
Spring. 3(3-0) RB: Graduate-level course in economics or sociology. R: Open to graduate students or approval of department.
Theory and practice of designing and conducting surveys in the study of community sustainability.
- 836 Modeling Natural Resource Systems**
Spring. 3(3-0) Interdepartmental with Environmental Science and Policy and Fisheries and Wildlife. Administered by Community Sustainability. RB: ecology, statistics, and calculus SA: ACR 851, CSUS 851
System dynamics modeling in human-environment systems. Sustainability applications, including renewable and non-renewable resource use, greenhouse gas emissions and climate change, pollutants and limits to growth.
- 838 Participatory Modes of Inquiry**
Fall. 3(3-0) RB: CSUS 800, CSUS 802, a graduate philosophy of science course, or a graduate-level research methods course. SA: ACR 838
Participatory and action research literature across the disciplines. Epistemological and theoretical foundations, fields of application, points of emphasis for practice. Skill building in reflexivity, surfacing assumptions, dialogue, and active listening.
- 848 Community Based Natural Resource Management in International Development**
Spring. 3(3-0) SA: ACR 848, RD 823
Community-based natural resource management in developing countries. Determinants of conservation, productivity, and income distribution. Interaction of human and natural systems, perceptions of scarcity, property rights, collective action, and governance. Policy tools for promoting conservation.
- 855 Political Ecology of Food**
Fall of even years. 3(3-0) RB: CSUS 811 or concurrently R: Open to graduate students or approval of department.
Interactions between food, society and the environment. Ecological impacts and sociopolitical power in international and domestic contexts.
- 858 Gender, Justice and Environmental Change : Issues and Concepts**
Fall. 3(3-0) Interdepartmental with Anthropology and Criminal Justice and Forestry and Fisheries and Wildlife and Geography and Sociology and Women's Studies. Administered by Community Sustainability. RB: Background in social science, environmental science, or natural resources.
Issues and concepts related to gender, ecology, and environmental studies. Key debates and theoretical approaches to addressing environmental issues from a gender and social justice perspective. Gender and environment issues and processes from a global perspective.
- 859 Gender, Justice, and Environmental Change: Methods and Application**
Spring. 3(3-0) Interdepartmental with Anthropology and Forestry and Fisheries and Wildlife and Geography and Sociology and Women's Studies. Administered by Anthropology. RB: Background in social science, environmental science, or natural resources.
Methods and case studies related to gender, ecology, and environmental studies. Methodological and fieldwork issues from a feminist perspective in international and intercultural contexts. Qualitative and quantitative methods for integrating social and environmental data.
- 860 Youth Leadership: Theory and Practice**
Summer of even years. 3(3-0) SA: CSUS 422
Foundations of theory and practice in youth leadership. Youth development and leadership in families, schools, organizations, and communities. Review of youth organizations at the local, state, national, and international levels. Field trips required.
- 861 Educational Theory and Application of Experiential Learning in AFNR**
Summer of odd years. 3(3-0) SA: CSUS 423
Foundations of experiential learning in theory and practice. Experiential learning within the context of families, schools, organizations and communities as a function of an educational system. Application of experiential learning within formal and nonformal educational settings. Field trips required.
- 863 Agriculture, Food and Natural Resources Education Laboratory Instruction: Theory and Practice**
Summer. 3(2-2)
Research-based pedagogy and application of laboratory experiences in teaching and learning. Current principles and practice in AFNRE laboratory learning in formal and non-formal education. Field trips required.
- 864 Agriculture, Food and Natural Resources Educator Induction**
Fall. 3(3-0)
Induction and persistence theory and research. Personal development. Professional identity. Curriculum expansion. Teaching method enhancement. Community-centered programming. Program evaluation.
- 865 Facilitative Leadership**
Fall. 1(1-0) SA: ACR 865
Facilitative leadership in groups, organizations and communities. Techniques, processes, and skills for leading groups to generate and prioritize ideas, set goals, and create action plans. Practical experience emphasized.
- 873 Culture, Communities and Tourism**
Fall of even years. 3(3-0) SA: ACR 873
Multi-disciplinary exploration of culture, heritage, cultural landscapes, ecotourism. Contribution of cultural institutions and resources to economy, tourism and community development. Relationship between natural environment and cultural expression. Positive and negative impacts of cultural tourism. Domestic and international examples.
- 886 Fundamentals of Museum Studies**
Fall. 3(3-0) Interdepartmental with Anthropology and History and Museum Studies. Administered by Museum Studies. R: Open to lifelong graduate students in the College of Arts and Letters or in the Department of Anthropology or in the Department of History. Approval of department. SA: AL 886 Not open to students with credit in MUSM 485.
Introduction to the history of museums and current practices, standards, issues and ethics related to education, administration, visitor studies and the development, care and use of museum collections.
- 890 Independent Study in Community Sustainability**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to graduate students. Approval of department. SA: ACR 890
Supervised individual study in an area of community sustainability or sustainable tourism and protected area management.
- 891 Selected Topics in Community Sustainability**
Fall, Spring, Summer. 1 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open to graduate students in the College of Agriculture and Natural Resources or in the Department of Community Sustainability or in the Community, Agriculture, Recreation and Resource Studies major. Approval of department. SA: ACR 891
Selected topics in community sustainability or sustainable tourism and protected area management of current interest and importance.

891B Advanced Topics in Community, Food and Agriculture
 Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. SA: ACR 891B

Selected, advanced topics in community, food and agriculture.

894 Field Practicum in Community Sustainability
 Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. R: Open to graduate students in the Department of Community Sustainability. SA: ACR 894

Integration of knowledge, skills and program objectives with field-based scholarship or training in programs in domestic or foreign settings. Practice, observation, and analysis through field experiences. Writing, analysis, and evaluation.

897 Practicum in Museum Studies
 On Demand. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Anthropology and History and Museum Studies. Administered by Museum Studies. SA: AL 897 C: MUSM 485 concurrently or MUSM 886 concurrently.

Practical experience in museum studies.

898 Master's Professional Project
 Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open to master's students in the Department of Community Sustainability. SA: ACR 898

Master's project, non-thesis research, practicum or other professional development capstone experiences.

899 Master's Thesis Research
 Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. R: Open to master's students in the Department of Community Sustainability. SA: ACR 899

Master's thesis research.

999 Doctoral Dissertation Research
 Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Open to doctoral students in the Department of Community Sustainability. SA: ACR 999

Doctoral dissertation research.