

**AGRICULTURE  
AND NATURAL  
RESOURCES**

**ANR**

**College of Agriculture  
and Natural Resources**

**101A Academic and Career Decision Making**  
Fall, Spring. 2(2-0)  
Exploration of the career possibilities in agriculture, natural resources and related areas.

**110 New Student Seminar: Issues and Ideas in Agriculture and Natural Resources**  
Fall. 1(0-2) R: Open only to freshmen or sophomores or juniors in the College of Agriculture and Natural Resources.  
Issues in agriculture and natural resources. Personal and professional development through discussion and interactive experiences.

**150 Academic Success and Careers in Agriculture and Natural Resources**  
Fall. 3(3-0) R: Open to freshmen.  
Decision making and critical thinking for success in college. Time management, classroom ethics, test taking, listening and writing. University resources and career paths in agriculture and natural resource fields.

**192 Environmental Issues Seminar**  
Fall. 1 credit. Interdepartmental with Communication Arts and Sciences and Engineering and Natural Science and Social Science. Administered by Natural Science. R: Open to students in the College of Communication Arts and Sciences or in the College of Engineering or in the College of Natural Science or in the College of Social Science. Approval of college.  
Environmental issues and problems explored from a variety of perspectives, including legal, scientific, historical, political, socio-economic, and technical points of view.

**210 Pathways in Integrated Learning**  
Fall, Spring. 3(3-0) R: Not open to seniors.  
Active, self-directed, and reflective learning associated with agriculture and natural resource issues, self and social development, and ethical choice making. Development of a learning plan and design of a learning portfolio. Individual and group presentations.

**250 Global Issues in Agriculture and Natural Resources**  
Fall. 3(3-0) Interdepartmental with Community Sustainability. 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.

**292 Applications in Environmental Studies**  
Spring. 2(1-2) Interdepartmental with Communication Arts and Sciences and Engineering and Natural Science and Social Science. Administered by Natural Science. R: Open to students in the Environmental Studies Specialization.  
Community engagement project. Projects vary depending on student's major and area of environmental interest.

**310 Integrated Learning Seminar I**  
Fall, Spring, Summer. 3(3-0) P: ANR 210  
Learner-directed critical analysis of contemporary issues in community systems. Communication of outcomes to professional communities. Collaborative learning integrated with individual experiences.

**311 Integrated Learning Seminar II**  
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: ANR 310 or approval of college  
Advanced analysis and presentation of contemporary issues in community systems

**392 Agriculture and Natural Resources Seminar**  
Spring. 1(2-0) R: Not open to freshmen or sophomores.  
Current agricultural, natural resources and environmental problems and solutions. Discussion leaders from various disciplines.

**410 Integrated Learning Transitions**  
Fall, Spring. 3(3-0) P: ANR 310  
Synthesis and analysis of structured experiences in community systems. Personal and interpersonal development, personal and professional integrity, communication competence, and critical and reflective thinking.

**475 International Studies in Agriculture and Natural Resources**  
Fall, Spring, Summer. 2 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of college; application required.  
Study-travel experience. Contemporary problems affecting agriculture and natural resources in world, national and local communities. Case studies and interviews with officials, community leaders and leading professionals.

**490 Independent Study in Agriculture and Natural Resources**  
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to sophomores or juniors or seniors or graduate students in the College of Agriculture and Natural Resources.  
Supervised individual study in topics related to agriculture and natural resources.

**491 Selected Topics**  
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Not open to freshmen or sophomores.  
Special topics in agriculture and natural resources.

**493 Professional Internship in Agriculture and Natural Resources**  
Fall, Spring, Summer. 3 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, PLP 493, and CSUS 493. R: Open to juniors or seniors in the College of Agriculture and Natural Resources. Approval of department; application required.  
Supervised professional experiences in agencies and businesses related to a student's major field of study.

**820 Proseminar in Food and Agricultural Standards**  
Fall. 3(3-0) Interdepartmental with Social Science. Administered by Social Science.  
Interdisciplinary theoretical and applied perspectives on societal roles and implications of standards in food and agriculture.

**826 Principles of Scholarship: Integrity, Ethics and Research**  
Fall. 2(2-0) Interdepartmental with Packaging. Administered by Packaging.  
Principles, considerations, expectations and culture of professional scholarship.

**828 Food Safety Seminar Series**  
Fall, Spring. 1(1-0) Interdepartmental with Natural Science and Social Science and Veterinary Medicine. Administered by Veterinary Medicine. RB: Enrollment in graduate program in related discipline  
Selected current topics covering the broad areas of food safety as they relate to production, processing, transport, microbiology, toxicology, and social and human dimensions.

**880 Leadership and the Policy Process in Agriculture and Natural Resources**  
Fall, Spring. 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. RB: Demonstrated leadership in ANR R: Approval of department.  
Theory and practice of leadership and engagement in the policy process. Current issues facing agriculture, natural resources, manufacturing, and the environment in Michigan. Field trips required.

**891 Food and Agricultural Standards Seminar**  
Spring. 3(3-0) Interdepartmental with Social Science. Administered by Social Science. P: SSC 820  
Integration of multidisciplinary perspectives on Food and Agricultural Standards.