

ANR EDUCATION AND COMMUNICATION SYSTEMS **AEE**

Department of Community, Agriculture, Recreation and Resource Studies
College of Agriculture and Natural Resources

- 100 Public Speaking in Agriculture and Natural Resources**
 Fall, Spring. 2(2-0) R: Open only to students in the Institute of Agricultural Technology.
 Public speaking skills for agriculture and natural resource professionals. Organizing and delivering effective speeches for diverse audiences.
- 105 Agricultural Industries Seminar**
 Fall. 1(2-0) R: Open only to freshmen in the Institute of Agricultural Technology.
 Issues of agricultural industries. Preparation for a successful academic career.
- 110 Foundations of ANR Communications: Learning and Leadership**
 Fall. 2(1-2) R: Open only to students in Agriculture and Natural Resources Communications major or Agriscience major or the Agriculture and Natural Resources - No Preference undergraduate program. SA: AEE 101
 Basic information systems applied to ANR communications, learning, and leadership. Communications skills, research techniques, learning theory, technology, and personal and professional development.
- 111 Applications of ANR Communications: Learning and Leadership**
 Spring. 2(1-2) RB: AEE 110 R: Open only to students in the Agriculture and Natural Resources Communications major or Agriscience major or Agriculture and Natural Resources - No Preference undergraduate program. SA: AEE 101
 Application of information systems theory, communications skills, research techniques, learning theory, and technology to agriculture and natural resource problems. Issue identification, critical thinking, problem solving, team building, and working with diversity.
- 120 Current Issues in Agriculture and Natural Resources**
 Fall. 3(3-0) R: Open only to freshmen or sophomores in the Institute of Agricultural Technology. Not open to students with credit in AT 040 or AT 057 or ABM 400.
 Implementation and interpretation of public law related to agricultural and environmental policy. Role of government in regulating technological and economic change related to agriculture and the environment. Non-governmental organizations.
- 202 Michigan's Agricultural and Natural Resources Heritage**
 Fall. 2(2-0) Interdepartmental with Agriculture and Natural Resources. Administered by Agriculture and Natural Resources. P:M: Completion of Tier I writing requirement.
 Michigan's historical agricultural and natural resources. Orientation to sources for research and learning. Self-directed study integrating agricultural and natural resources heritage to family, community and careers.

- 205 Agricultural Industries Advanced Seminar**
 Fall. 2(2-0) R: Open only to sophomores in the Institute of Agricultural Technology. Not open to students with credit in AT 057 or AEE 057.
 Career preparation. Individual and social responsibilities.
- 210 Approaches to ANR Technology and Information Systems**
 Fall. 2(1-2) RB: (AEE 110 or concurrently) or AEE 101 R: Open only to students in Agriculture and Natural Resources Communications or Agriscience major. SA: AEE 201
 Development of technology and learning resources in agriculture and natural resources. Graphic design, electronic publishing, database management, evaluation techniques, and educational technology.
- 211 Applications of ANR Technology and Information Systems**
 Spring. 2(1-2) RB: (AEE 111 or concurrently) or AEE 101 R: Open only to students in the Agriculture and Natural Resources Communications or Agriscience major. SA: AEE 201
 Application of technology and learning resources and systems in agriculture and natural resources for external audiences. Production of graphic designs, publishing and production of other informational materials.
- 212 American Agrarian Movements**
 Spring. 3(3-0) SA: AEE 203
 Historical perspectives of America by pioneers, farmers, ranchers and others who cultivated the land from 1700s to 1930. Agricultural movements, trends and development.
- 220 Agriculture and Natural Resources Policy**
 Spring. 2(2-0) P:M: AEE 120 R: Open only to sophomores in the Institute of Agricultural Technology. Not open to students with credit in AT 057 or ABM 400.
 Public policy affecting agriculture and natural resources. Legislative processes. Special interests. Governmental and fiscal responsibility. Citizen participation.
- 300 Approaches to Information Management and Evaluation**
 Fall. 3(3-0) P:M: Completion of Tier I writing requirement. RB: AEE 211 and AEE 210 R: Open only to students in the Agriculture and Natural Resources Communications or Agriscience major. SA: AEE 301
 Advanced information and evaluation techniques to plan, implement and assess domestic and international communication, marketing, and educational projects in agriculture and natural resources. Qualitative and quantitative methods of inquiry.
- 311 Applications of Information Management and Evaluation**
 Fall, Spring. 1(0-2) P:M: Completion of Tier I writing requirement. RB: AEE 300 R: Open only to students in the Agriculture and Natural Resources Communications or Agriscience major. SA: AEE 301
 Marketing, educational, and public relations campaigns to solve and address problems in agriculture and natural resources. Application of distance education technology and field work to domestic and international projects.

- 401 Agricultural and Natural Resources Communications Campaigns**
 Fall, Spring, Summer. 3(3-0) P:M: Completion of Tier I writing requirement. R: Open only to juniors or seniors in the College of Agriculture and Natural Resources or the College of Communication Arts and Sciences. Not open to students with credit in AEE 300 or AEE 410.
 Planning and execution of agricultural and natural resource communication campaigns. Emphasis on theories, strategies and techniques using mass and controlled media channels.
- 410 Approaches to Problems in Communications and Education (W)**
 Fall. 3(3-0) P:M: Completion of Tier I writing requirement. RB: AEE 311 and AEE 300 R: Open only to students in the Agriculture and Natural Resources Communications or Agriscience major. Not open to students with credit in AEE 401.
 Team approach to current issues in agriculture and natural resources communications and education. Solving advanced problems with peers and professionals. Professional standards and ethical practice.
- 411 Applications of Problems in Communications and Education**
 Fall, Spring. 1(0-2) P:M: Completion of Tier I writing requirement. RB: AEE 410 R: Open only to students in the Agriculture and Natural Resources Communications or Agriscience major. Not open to students with credit in AEE 401.
 Developing solutions for client problems through field work in agriculture and natural resources communications and education. Transition into the world of work.
- 412 Agricultural and Natural Resources Leadership and Education**
 Fall, Spring, Summer. 3(3-0) R: Open only to juniors or seniors. SA: AEE 403
 Characteristics of leadership and group dynamics. Development of personal leadership skills. Educational methods and learning styles.
- 475 International Studies in ANR Communications & Ag Science**
 Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department; application required.
 Study and travel experience emphasizing contemporary problems affecting Agriculture and Natural Resources in world, national, and local communities.
- 476 Field Studies in Agriculture and Natural Resources Education and Communication**
 Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
 ANR education and communication issues and problems in Michigan and the United States.
- 490 Independent Study**
 Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Open only to students in the Agriscience major or Agriculture and Natural Resources Communications major. Approval of department; application required.
 Individual study in areas of agriscience, extension education, or agricultural and natural resources communications.

ANR Education and Communication Systems—AEE

- 491 Selected Topics**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to students in the Agriscience major or Agriculture and Natural Resources Communications major. Approval of department.
Topics in agriculture and natural resources communications or agriscience and natural resources education.
- 493 Professional Internship**
Fall, Spring, Summer. 1 to 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, AEE 493, ANR 493, ANS 493, CSS 493, EEP 493, FIM 493, FW 493, HRT 493, PKG 493, PLP 493, PRR 493, and RD 493. RB: AEE 210 R: Not open to freshmen. Approval of department; application required.
Professional internship for students majoring in Agriculture Communications and Agriscience.
- 802 Educational Leadership in Agriculture and Natural Resources**
Fall of odd years, Spring of odd years, Summer of even years. 3(3-0)
Organizing and managing strategies for agriculture and natural resource programs.
- 803 Instructional Strategies in Agriculture and Natural Resources**
Fall of even years, Spring of even years, Summer of odd years. 3(3-0)
Assessment of learning needs. Development, selection, use and evaluation of teaching strategies. Emphasis on agriscience education and adult learners.
- 804 Communication Strategies in Agriculture and Natural Resources**
Fall of odd years, Spring of odd years, Summer of even years. 3(3-0) R: Open only to seniors or graduate students in the College of Agriculture and Natural Resources.
Information delivery systems and presentation techniques for varied agriculture and natural resources audiences.
- 806 Program Planning and Evaluation in Agriculture and Natural Resources**
Fall of even years, Spring of even years, Summer of odd years. 3(3-0)
Principles, theories, and practices in developing and evaluating state and local agriculture and natural resources programs.
- 807 Educational Research Methods in Agriculture and Natural Resources**
Fall of even years, Spring of even years, Summer of odd years. 3(3-0) R: Open only to graduate students in the College of Agriculture and Natural Resources.
Planning, designing, conducting, and reporting research in agriculture and natural resources.
- 808 Learning at a Distance**
Fall of odd years, Spring of odd years, Summer of even years. 3(3-0) RB: AEE 804 and AEE 806
Development, implementation and evaluation of distance education programs.
- 811 U.S. Land Grant System and the Extension Model**
Spring of odd years. 3(3-0)
Function, organization, and operation of extension education programs with special emphasis on the U.S. Land Grant System and the extension delivery system.
- 812 Adult Learner in Agriculture and Natural Resources**
Fall of even years. 3(3-0) SA: AEE 911
Theories and philosophies of the adult as a learner in out-of-school settings. Particular emphasis on implications for agriculture and natural resources.
- 822 Experiential Education in Agriculture and Natural Resources**
Summer of odd years. 3(3-0) R: Open only to graduate students in the Department of Agricultural and Extension Education.
Principles and practices of agriscience laboratory teaching in high schools.
- 875 International Studies in Agricultural and Extension Education**
Fall, Spring, Summer. 1 to 4 credits.
Critical analysis of reflection on an international experience structured around the use of a reflective journal, relevant literature, and a series of structured writing exercises. Role of education within the agriculture and natural resources sector, issues of cultural influence, and future perspectives.
- 884 Outreach in Fisheries, Wildlife and Natural Resources Management**
Spring of odd years. 3(3-0) Interdepartmental with Fisheries and Wildlife. Administered by Fisheries and Wildlife. RB: Previous course in communications recommended.
Theory, research, practice and current issues in using outreach in fisheries, wildlife and natural resource management.
- 890 Independent Study in Agricultural and Extension Education**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Approval of department.
- 891 Selected Topics in Agricultural and Extension Education**
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to graduate students in the Department of Agricultural and Extension Education.
Contemporary issues and problems in agricultural and extension education.
- 893 Professional Field Experience in Agricultural and Extension Education**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Open only to graduate students in the Department of Agricultural and Extension Education.
Practice, observation, and analysis through field experiences.
- 898 Master's Applied Project**
Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 5 credits in all enrollments for this course. R: Open only to master's students in the Agricultural and Extension Education major.
Master's Plan B applied project.
- 899 Master's Thesis Research**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to master's students in the Agricultural and Extension Education major.
Master's thesis research.
- 907 Advanced Educational Research in Agriculture and Natural Resources**
Fall of odd years. 3(3-0) RB: AEE 807 and STT 421
Selection and development of research instruments and quantitative data analysis for educational research in agriculture and natural resources.
- 990 Advanced Independent Study in Agricultural and Extension Education**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course.
- 991 Advanced Selected Topics in Agricultural and Extension Education**
Fall, Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course.
Contemporary issues and problems in agricultural and extension education.
- 993 Advanced Professional Field Experience in Agricultural and Extension Education**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course.
Practice, observation, and analysis through field experiences.
- 999 Doctoral Dissertation Research**
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to Ph.D. students in Agricultural and Extension Education.
Doctoral dissertation research.