Crop, Soil, and Environmental Sciences (CSES)

Faculty

Pierre Antoine, Adjunct Professor
Robert Keith Bacon, Professor
Fred Bourland, Professor
Kristofer R. Brye, Professor
Nilda Roma Burgos, Professor
Pengyin Chen, Professor
Paul Allen Counce, Professor
Michael B. Daniels, Extension Professor
Leonel A. Espinoza, Extension Associate Professor
Edward E. Gbur Jr., Professor
Jason Kelley, Extension Associate Professor
David Eric Longer, Professor
Andy Maumoustatos, Professor
David M. Miller, Professor
Karen Ann-Kuenzel Moldenhauer, Professor, Rice Industry Chair in Variety Development
Philip A. Moore Jr., Visiting Associate Professor
Dr. Morteza Mozaffari, Assistant Professor
Richard J. Norman, Professor
Jason Keith Norsworthy, Professor
Derrick M. Oosterhuis, Distinguished Professor, Clyde H. Sites Endowed Professorship in International Crop Physiology
Andy Pereira, Professor
Larry C. Purcell, Professor, Ben J. Altheimer Chair for Soybean Research
Trenton L. Roberts, Assistant Professor
J. Neil Rutger, Adjunct Professor
Mary Cathleen Savin, Professor
Thad Scott, Assistant Professor
Robert C. Scott, Extension Associate Professor
Andrew N. Sharpley, Professor
Nathan A. Slaton, Professor
Vibha Srivastava, Professor
Kenton Bradley Watkins, Associate Professor
Charles E. Wilson Jr., Professor

R. K. Bacon
Department Head
115 Plant Sciences Building
479-575-2354
E-mail: raamstr@uark.edu

http://cses.uark.edu/

Degrees Conferred:

M.S., Ph.D. (CSES)

Areas of Study: Crop sciences, soil sciences, and environmental sciences. Areas of specialization within these concentrations include plant breeding and genetics, biotechnology, water quality, environmental science, crop physiology, crop production, weed science, pesticide residue, seed technology, soil chemistry, soil classification, soil fertility, soil microbiology, and soil physics.

Primary Areas of Faculty Research: Environmental, soil, and water science (bioremediation, soil and water quality, microbial ecology, nutrient management, natural resource management using GIS); plant sciences (plant breeding and genetics, plant biotechnology, plant physiology, weed science), and agronomic production science.

Prerequisites to Degree Programs: While extensive undergraduate training in agriculture and physical and biological science is desirable, no specific prerequisites are required. Deficiencies in undergraduate major or prerequisites for advanced courses may be included in the student’s program.

Requirements for the Master of Science Degree:

Thesis option: Minimum of 24 semester hours of course work as outlined by the student’s graduate advisory committee plus six semester hours of thesis credit. The student will be given an oral examination after the thesis is completed.

Non-Thesis M.S. option: Some students wishing to obtain an M.S. degree may be better served by a program that emphasizes additional course work in the environmental and crop sciences rather than the research thesis program. Students must be approved by the department’s Graduate Committee for admission into the non-thesis option before developing a program of study in concert with the student’s major adviser and his/her graduate advisory committee. A minimum of 33 hours of graduate-level course work is required, including a graduate statistics class, a communication course, preferably CSES 5103 Scientific Presentations, a 3-hour research experience taken as CSES 502V Special Problems Research, that requires the student to demonstrate scientific thinking, synthesizing, and writing skills, a minimum of 9 hours of graduate courses at the 5000 level or higher in the plant, soil, or other relevant sciences in addition to the communication (CSES 5103) and Special Problems Research (CSES 502V) courses, and an exit seminar.

The student will interact with his/her major adviser and graduate advisory committee in completing the agreed-upon course of study and must pass an oral and a written examination given by the advisory committee over all course work completed for the degree.

Requirements for the Doctor of Philosophy Degree: After a student has been admitted to the Graduate School and accepted by the department as being qualified for advanced work, the student is assigned to a major adviser. The major adviser will, in consultation with the department head, select a graduate committee. This committee will serve both in an advisory capacity for the student’s program and as the dissertation and examination committee. The student’s graduate advisory committee will determine the number of hours of course work to be completed for the degree.

The student must take candidacy examinations (prelims) in at least five fields of study after completing approximately two years of graduate study and at least one year before completing all other requirements. Preliminary examinations must be written and oral. Further details regarding requirements for the Doctor of Philosophy degree are available in the department office.