

## **Dear Prospective Graduate Student:**

Thank you for your interest and inquiry into the graduate studies program of the University of Arkansas Graduate School and the Department of Poultry Science. We hope to hear from you soon.

Sincerely,

Mike Slavik, Ph.D., Professor  
Chairman, Graduate Admissions Committee

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## **REQUIREMENTS FOR ADMISSION INTO GRADUATE PROGRAM IN THE DEPARTMENT OF POULTRY SCIENCE**

### **I. You must be admitted to the Graduate School at the University of Arkansas, Fayetteville, AR.**

**Applications for admission to the Graduate School may be obtained from, and should be submitted directly to: Graduate School Admissions Office, 119 Ozark Hall, University of Arkansas, Fayetteville, AR 72701, Phone: (800) 632-0032 or (479) 575-4401.**

**Copies of the Graduate School Catalog and online application for Graduate School may be found at:**

[http://www.uark.edu/depts/gradinfo/public\\_html/handbookmain.htm](http://www.uark.edu/depts/gradinfo/public_html/handbookmain.htm)

### **II. You must also apply directly to our department with the application below:**

#### **Admissions to Graduate Degree Program in the Department of Poultry Science:**

1. All applicants for admission into either the M.S. degree or Ph.D. program in the Poultry Science Department must take the Graduate Record Exam (GRE).
2. The minimum GPA required for admittance to the Poultry Science Department will be the same as admittance to the Graduate School at the University of Arkansas. For the Graduate School requirements go to:  
<http://www.uark.edu/depts/gradinfo/forms/student/appl-instruct.pdf>
3. A student in the General Agriculture Master=s Degree program or any other non-thesis M.S. degree program cannot transfer into the Degree program in this Department except through regular admission procedures.
4. The student must submit a letter of intent, along with an application for admission, indicating their specific areas of interest and career goals. The student

also must arrange for at least two letters of recommendation to be sent. These letters must indicate the character and academic capability of the applicant. All information should be sent to the Head of the Department of Poultry Science.

5. All materials must be received 3 months prior to the start of the semester for which the student wishes to register.
6. The Departmental Graduate Admissions Committee will evaluate all applications. If the committee approves the applicant, a faculty member must agree to be an advisor to the student. If no faculty member consents to advise the student, the application is rejected. Acceptance into the graduate program does not guarantee financial assistance.

### **Degree Requirements for Masters of Science Degree**

For the M.S. degree at least 24 hours of course work and 6 hours of thesis must be completed. No more than 12 hours or 3 courses at the 4000 level can be used for credit. A maximum of 4 hours of 5000 Special Problems can be used for M.S. degree requirements. At least three courses should be taken in the Poultry Science Department. At least 1 seminar is required for all M.S. degree candidates. A minimum GPA of 3.0 is required for the M.S. degree. All M.S. candidates must complete a thesis based on their research and pass a final comprehensive exam with emphasis on thesis research. In addition, each student must write one manuscript suitable for publication in a refereed journal.

### **Degree Requirements for Doctor of Philosophy Degree**

A Ph.D. candidate bypassing the M.S. degree must take at least 36 hours of course work approved by the student's advisory committee with at least 24 hours of 5000 and 6000 level course work excluding Special Problems. **No more than 12 hours or 3 courses at the 4000 level can be used for credit. A maximum of 4 hours of 5000 Special Problems can be used for Ph.D. degree requirements.** Students in the Ph.D. program who have an M.S. degree must take at least 12 hours of 5000 and 6000 level course work excluding Special Problems. **If not taken previously, a 3 hour statistics course is required for graduation for all Ph.D. candidates.** A minimum of 2 seminars is required of all Ph.D. candidates. All Ph.D. degree candidates must take 18 hours of dissertation research. Admission to candidacy requires the candidate to take a comprehensive written exam as determined by members of the Graduate Advisory Committee of the student and a preliminary oral exam given by the Graduate Advisory Committee. Any student that fails the admission to candidacy exams will not be permitted to reschedule the exams for a six month period. A second failure will lead to termination from the program. A final oral examination will be taken that is a defense of the dissertation. A minimum GPA of 3.0 is required for the Ph.D. degree. Two manuscripts suitable for publication in a refereed journal are required for each Ph.D. student to graduate. These papers will be evaluated by the Graduate Advisory Committee for comments and approval.

**HELPFUL INFORMATION:**

The Graduate School Handbook is on the Web at:

[http://www.uark.edu/depts/gradinfo/public\\_html/handbookmain.htm](http://www.uark.edu/depts/gradinfo/public_html/handbookmain.htm)

To Order Test Preparation Materials for GRE online go to [www.ets.org/store.html](http://www.ets.org/store.html) or call 1-800-537-3160 in the U.S. Outside the U.S. and Canada call 1-609-771-7243. Ask for Dept. P68. To visit GRE online go to [www.gre.org](http://www.gre.org)

The test of English as a Foreign Language (TOEFL) has introduced an Internet-based test and has phased out the computer based test. The score range is 0-120. For inquiries about TOEFL tests, services, policies, and procedures, call 1-609-771-7100 (Princeton, NJ), Monday-Friday, 8:00 a.m. - 8:00 p.m. New York time. If you are ordering study materials and you are calling from the United States, Canada, American Samoa, Guam, US Virgin Islands, or Puerto Rico, call 1-800-446-3319. If you are calling from outside these areas, call 1-609-771-7243 or order from the distribution office nearest you. Email/Internet: [toefl@ets.org](mailto:toefl@ets.org) or visit the TOEFL Web site at: <http://www.toefl.org> and the ETS Web site at: <http://www.ets.org>. Fax: General inquiries TOEFL Services 609-771-7500. If you are testing in the U.S., Canada, American Samoa, Guam, US Virgin Islands, or Puerto Rico call 1-800-468-6335. For General Inquiries by mail: TOEFL Services, Educational Testing Service, P.O. Box 6151, Princeton, NJ 08541-6151, USA.

**ATTACH THE POSC GRADUATE APPLICATION FORM TO AN E-MAIL AND SEND TO CAROL AT [frederi@uark.edu](mailto:frederi@uark.edu) OR MAIL TO DR. MIKE SLAVIK, CHAIR, GRADUATE ADMISSIONS COMMITTEE, DEPT. OF POULTRY SCIENCE, UNIVERSITY OF ARKANSAS, FAYETTEVILLE, AR 72701.**

## **Application Information for Admission to the Graduate Program University of Arkansas, Department of Poultry Science**

Please fill out the form below (completely) and attach as an e-mail and return to Carol Frederick ([frederi@uark.edu](mailto:frederi@uark.edu)) for consideration. Thank you so much for your interest.

Admission requested for: Year

Please check one:  Fall  
 Spring or  
 Summer

Degree you are seeking?

Do you wish to be considered for an assistantship?

### Legal Name

Last:

First:

Middle:

Sex:

Date of Birth:

Place of Birth:

Social Security Number:

### Permanent Address

Street:

City:

State:

Zip Code:

Country:

Mailing Address (if same as above, click here )

Street:

City:

State:

Zip Code:

Country:

### Contact Information

E-mail address:

Daytime telephone number:

Nighttime telephone number:

Fax:

Citizenship: (please check only one)

U.S. Citizen, Are you a bona fide Arkansas resident?

Resident Alien (immigrant), Country of citizenship?

Non-Resident Alien; Visa Type \_\_\_\_\_ ; City/State/Country of Citizenship

## Graduate Assistantship Application (Poultry Science Use Only)

Please fill out the next section if you are applying for a Graduate Assistantship, if you are not interested in applying for an assistantship, please skip to the next section.

Colleges Attended List in chronological order (most recent first) all colleges and universities ever attended (include dates):

Degrees Conferred  
(dates)

Previous Graduate Appointments? (Include month/year of start and finish dates)

Extracurricular Activities and Scholastic Honors?

Experience (business, teaching, etc)

Publications (if any)

Give names and addresses of at least three persons whom you are asking to write letters in support of this application. (Have those sent directly to the Chairman of the Graduate Admissions Committee, Dr. Mike Slavik, in the Department of Poultry Science, University of Arkansas, 1260 W. Maple, Fayetteville, AR 72701.)

- 1.
- 2.
- 3.

Make a brief statement concerning your plans for graduate study:

If you have taken any of the following tests, give scores. Please have scores sent by ETS to the Graduate School (Code for **University of Arkansas is 6866**, **Poultry Science is 5199**.)

I have taken:

GRE (Aptitude Sections)

Month

Year

Verbal

Quantitative

TOEFL (International Students Only)

Month

Year

Score

## Center of Excellence for Poultry Science Graduate School Interest Survey

In order to process your application for graduate study in the Department of Poultry Science the following information is necessary. **Please rank the areas of interest to you (1st, 2nd, 3rd) by pulling down on the appropriate drop down item (no interest, first, second or third). Only rank the top three please.**

### No interest 1. **Avian Parasitology**

**Dr. David Chapman** - Parasitologist - Conducts research in control and/or prevention of coccidiosis. [dchapman@uark.edu](mailto:dchapman@uark.edu)

### No interest 2. **Avian Physiology**

**Dr. Walter Bottje** - Physiologist - Conducts research on mitochondrial function in health and disease of poultry with particular emphasis on antioxidants and oxidative stress. [wbottje@uark.edu](mailto:wbottje@uark.edu)

**Dr. Annie Donoghue** - Research Leader USDA/ARS Poultry Production and Product Safety Research Unit. Involved in several research areas including intestinal development and pathogen interaction, reproductive efficiency and development of assisted reproductive technologies for poultry and endangered avian species. [donoghue@uark.edu](mailto:donoghue@uark.edu)

**Dr. Dan Donoghue** - Physiologist/Food Safety - Conducts research to evaluate the pharmacokinetics of drug, pesticide and other contaminant transfer into poultry and their potential to promote the development of antibiotic resistance. [ddonogh@uark.edu](mailto:ddonogh@uark.edu)

**Dr. Robert Wideman, Jr.** - Physiologist - Conducts research on kidney function, kidney damage, cardiopulmonary function as related to the pulmonary hypertension syndrome (ascites) in broilers and mechanisms responsible for regulating calcium and phosphorus metabolism in poultry. [rwideman@uark.edu](mailto:rwideman@uark.edu)

**Dr. William Huff** - Physiologist - USDA/ARS Poultry Production and Product Safety Research Unit. His current research interests include bacteriophage mycotoxins, intestinal strength, and bone development and proventriculitis. [huff@uark.edu](mailto:huff@uark.edu)

**Dr. Narayan Rath** - Physiologist - USDA-ARS, Poultry Production and Product Safety Unit. His current research interests include skeletal tissue physiology relating to poultry leg problems and acute phase response in poultry. [nrath@uark.edu](mailto:nrath@uark.edu)

**Dr. Wayne Kuenzel** - Physiologist/Neurobiologist - Conducts research in the area of avian neuroendocrinology with emphasis on the neural regulation of early sexual maturation, food intake and hypothalamic function. [wkuenzel@uark.edu](mailto:wkuenzel@uark.edu)

### No interest 3. **Avian Virology**

### No interest 4. **Food Safety/Microbiology**

**Dr. John Marcy** - Extension Food Scientist - Coordinates educational opportunities in the poultry industry for microbial improvement/safety in poultry products and processing and conducts research in poultry processing and meat science. [jmarcy@uark.edu](mailto:jmarcy@uark.edu)

**Dr. Mike Slavik** - Microbiologist/Food Safety - Conducts research in the area of food safety. Emphasis is on developing rapid methods to detect food pathogens, finding methods to reduce or eliminate these pathogens, and studies on the mechanisms of pathogenesis of foodborne bacteria. [m Slavik@uark.edu](mailto:m Slavik@uark.edu)

**Dr. Yanbin Li** - Food Safety/Food Processing - Conducts research in the area of food processing and engineering. Current research includes electrical pasteurization, chemical spraying and thermal process modeling for food safety and quality. [yanbinli@uark.edu](mailto:yanbinli@uark.edu)

**Dr. Dan Donoghue** - Physiologist/Food Safety - Conducts research to evaluate the pharmacokinetics of drug, pesticide and other contaminant transfer into poultry and their potential to promote the development of antibiotic resistance. [ddonogh@uark.edu](mailto:ddonogh@uark.edu)

**Dr. Gerry Huff** - Microbiologist - USDA/ARS Poultry Production and Product Safety Research Unit. Her research program is focused on the study of stress-related susceptibility to bacterial infections in poultry, including *Esheria coli* airsacculitis and turkey osteomyelitis complex, and the impact of such infections on food safety. [grhuff@uark.edu](mailto:grhuff@uark.edu)

**Dr. Young Min Kwon** - Microbiologist B his research program is focused on genetic analysis of bacterial pathogens important in poultry. [ykwon@uark.edu](mailto:ykwon@uark.edu)

### No interest 5. Immunology

**Dr. Gisela Erf** - Immunologist - Conducts research in avian immunology with emphasis on cell-mediated immunity, autoimmunity and immunology of the skin. [gferf@uark.edu](mailto:gferf@uark.edu)

**Dr. Gerry Huff** - Microbiologist - USDA/ARS Poultry Production and Product Safety Research Unit. Her research program is focused on the study of stress-related susceptibility to bacterial infections in poultry, including *Esheria coli* airsacculitis and turkey osteomyelitis complex, and the impact of such infections on food safety. [grhuff@uark.edu](mailto:grhuff@uark.edu)

**Dr. Narayan Rath** - Physiologist - USDA-ARS, Poultry Production and Product Safety Unit. His current research interests include skeletal tissue physiology relating to poultry leg problems and acute phase response in poultry. [nrath@uark.edu](mailto:nrath@uark.edu)

### No interest 6. Molecular Biology

**Dr. Young Min Kwon** - Microbiologist B his research program is focused on genetic analysis of bacterial pathogens important in poultry. [ykwon@uark.edu](mailto:ykwon@uark.edu)

### No interest 7. Poultry Breeding and Genetics

**Dr. Nick Anthony** - Poultry Breeding & Genetics - Serves as teaching program coordinator and conducts research on poultry breeding and selection for traits of economic importance. Research emphasis is placed upon patterns of growth in relation to carcass composition and reproductive performance. He also serves as the director of the Bumpers College Honors Program. [nanthony@uark.edu](mailto:nanthony@uark.edu)

**Dr. Craig Coon** - Poultry Nutritionist - Conducts research in the utilization and partitioning of nutrients between maintenance, gain, and egg production, environmental interactions with nutrition, feedstuff evaluation and amino acid metabolism. He holds the Poultry Federation Endowed Chair. [ccoone@uark.edu](mailto:ccoone@uark.edu)

### No interest 8. Poultry Economics

**Dr. Harold Goodwin** - Agricultural Economist - Has research and extension responsibilities in economic and business issues related to the poultry industry. [haroldg@uark.edu](mailto:haroldg@uark.edu)

### No interest 9. Poultry Enterprise Operations

**Dr. Susan Watkins** - Extension Poultry Specialist - Her major emphasis is on management issues in the area of commercial egg and turkey production. [swatkin@uark.edu](mailto:swatkin@uark.edu)

**Dr. Keith Bramwell** - Extension Reproductive Physiologist - Conducts research to determine the causes of the declining fertility and hatchability and increasing embryonic mortality due to increasing age in breeders. This information is intended to help maximize the life of flock reproductive characteristics in commercial flocks. [bramwell@uark.edu](mailto:bramwell@uark.edu)

### No interest 10. Poultry Health

**Dr. Dustan Clark** - Extension Poultry Health Veterinarian - Conducts research on bacterial and viral diseases of poultry and works with industry on current diseases and problems. Major emphasis is on diseases, diagnostics and pathology. [fdclark@uark.edu](mailto:fdclark@uark.edu)

**Dr. David Chapman** - Parasitologist - Conducts research in control and/or prevention of coccidiosis. [dchapman@uark.edu](mailto:dchapman@uark.edu)

**Dr. Annie Donoghue**- Research Leader USDA/ARS Poultry Production and Product Safety Research Unit. Conducts research on developing alternative approaches for antibiotics, research is focused on reducing intestinal, respiratory and reproductive pathogens [donoghue@uark.edu](mailto:donoghue@uark.edu)

**Dr. Billy Hargis** - Director, Poultry Health Lab and Veterinarian - Involved in several research areas related to health and well being of poultry through improved understanding of disease resistance mechanisms and alternative means for treatment and protection. Areas include infectious and non-infectious disease problems affecting performance, as well as areas relating to food safety and quality. [bhargis@uark.edu](mailto:bhargis@uark.edu)

**Dr. Gerry Huff** - Microbiologist - USDA/ARS Poultry Production and Product Safety Research Unit - Her research program is focused on the study of stress-related susceptibility to bacterial infections in poultry, including *Esheria coli* airsacculitis and turkey osteomyelitis complex, and the impact of such infections on food safety. [grhuff@uark.edu](mailto:grhuff@uark.edu)

**Dr. William Huff** - Physiologist - USDA/ARS Poultry Production and Product Safety Research Unit - His current research interests include bacteriophage mycotoxins, intestinal strength, and bone development and proventriculitis. [huff@uark.edu](mailto:huff@uark.edu)

### No interest 11. **Poultry Meat Quality**

**Dr. Casey Owens** - Protein Chemist - Conducts research to evaluate the effect of preslaughter environmental conditions and processing techniques on muscle metabolism and meat quality of poultry. [cmowens@uark.edu](mailto:cmowens@uark.edu)

### No interest 12. **Poultry Nutrition**

**Dr. Park Waldroup** - Poultry Nutritionist - Conducts research on nutrient requirements of broilers and turkeys. Emphasis is on energy and amino acid effects on performance and carcass composition. He also incorporates computer models to estimate nutritional needs of poultry. [waldroup@uark.edu](mailto:waldroup@uark.edu)

**Dr. Susan Watkins** - Extension Poultry Specialist - Her major emphasis is on management issues in the area of commercial egg and turkey production. [swatkin@uark.edu](mailto:swatkin@uark.edu)

**Dr. Craig Coon** - Poultry Nutritionist - Conducts research in the utilization and partitioning of nutrients between maintenance, gain, and egg production, environmental interactions with nutrition, feedstuff evaluation and amino acid metabolism. He holds the Poultry Federation Endowed Chair. [ccoone@uark.edu](mailto:ccoone@uark.edu)

### No interest 13. Poultry Product Technology

**Dr. John Marcy** - Extension Food Scientist - Coordinates educational opportunities in the poultry industry for microbial improvement/safety in poultry products and processing and conducts research in poultry processing and meat science. [jmarcy@uark.edu](mailto:jmarcy@uark.edu)

**Dr. Yanbin Li** - Food Safety/Food Processing - Conducts research in the area of food processing and engineering. Current research includes electrical pasteurization, chemical spraying and thermal process modeling for food safety and quality. [yanbinli@uark.edu](mailto:yanbinli@uark.edu)

### No interest 14. Turkey & Egg Production/Management

**Dr. Susan Watkins** - Extension Poultry Specialist - Her major emphasis is on management issues in the area of commercial egg and turkey production. [swatkin@uark.edu](mailto:swatkin@uark.edu)

**Dr. Keith Bramwell** - Extension Reproductive Physiologist - Conducts research to determine the causes of the declining fertility and hatchability and increasing embryonic mortality due to increasing age in breeders. This information is intended to help maximize the life of flock reproductive characteristics in commercial flocks. [bramwell@uark.edu](mailto:bramwell@uark.edu)

Please look over this form before submission. Attach this form to an e-mail and send to Carol Frederick at ([frederi@uark.edu](mailto:frederi@uark.edu)).