

Annual ACPV Approved Training Program Review Form

Updated March 2011

Review Date: July 6, 2020	
----------------------------------	--

**1. Name of Training Program and
Address:**

Master of Avian Medicine
UGA, Dept. of Population Health / PDRC
953 College Station Road
Athens, GA 30602

**2. Training Program mission, goals and
objectives:**

Mission:

The Department of Population Health offers an 18 month non-thesis Master of Avian Medicine (MAM) graduate Degree. The program is designed for veterinarians seeking a career in clinical avian medicine in the poultry industry. Course work in microbiology, pathology, and poultry science is combined with practical field and laboratory experiences in clinical avian medicine. At least 54 semester credit hours of course work, a research project, and the satisfactory completion of a final oral examination are required.

Goals:

1. Students should be able to recognize the clinical signs of gross lesions associated with common diseases of commercial poultry. They will know the etiology, diagnostic tests, treatment, and prevention associated with each of these diseases;
2. Students will be knowledgeable of varying commercial poultry husbandry practices and understand their impacts on poultry health and productivity;
3. Students will become proficient at obtaining clinical information including a flock history from clients and in the techniques of post mortem examination as a means to obtain a diagnosis of disease problems in commercial poultry submitted to a diagnostic laboratory. This includes proficiency in field investigations of flock problems. Students will be expected to maintain problem-oriented medical records;
4. Students will become proficient in current techniques used to isolate and identify avian pathogens including viruses, bacteria, and fungi. They will also perform various serologic tests used to quantify antibodies against several common avian pathogens;
5. Students will be able to recognize specific reactions of avian tissue to injury through microscopic examination. They will be able to identify specific findings such as parasites, viral inclusions, pigments, bacteria, and/or fungi;
6. Students will obtain basic knowledge regarding judicious use of antimicrobial and anticoccidial agents as well as vitamins and minerals.
Students will also become familiar with the action and effects of possible toxicants including mycotoxins;
7. Students will be expected to pull all pertinent information together to provide poultry production company personnel with recommendations regarding disease causes and economic corrections which are appropriate for the company structure.

Recruiting and Selection:

1. The program does not need to recruit for residents because they come to us. Nearly all the Eskelund Preceptors come to PDRC while in vet school and spend anywhere from a week to a month at PDRC. Plus, we have a large number of veterinarians from outside the United States visiting, many of whom apply.
2. The selection criterion is based on a minimum verbal and quantitative score of 297 or 1000 if taken prior to August 1, 2011, and a good GPA. However, we don't look solely at those 2 criteria. Their poultry experience is also taken into consideration. The program requires applicants be interviewed. There are 10-15 applications received annually for 2-3 positions. Once the UGA Graduate School has completed applications available for review in early January they are circulated among all faculty members at PDRC who rank them. The faculty members then meet to discuss the overall rankings and vote for 2-3 students to be admitted.

Objectives:

1. A preliminary written and oral examination after the first six months study with written feedback addressing weak areas in the student's progress;
2. A final or exit oral exam at the end of the program of study to assure that the student has met the minimum level of proficiency in the listed objectives with verbal feedback as to passing or failing of this test;
3. A required written exit review of the program after final grades post to obtain feedback from the graduating student documenting strengths and weaknesses in the program of study;
4. This information will be reviewed annually by the graduate coordinator. The information will be shared with other clinical faculty for discussion and possible program review.

3. Affiliated University(s):

The University of Georgia

4. Primary Program Contact:

Dr. Karen Grogan, 706-542-6390

5. When do your students graduate from the program? Circle all that apply

May

August

December

5. ACPV Diplomate Faculty Members:

1. Karen Grogan, 953 College Station Rd., Athens, GA kbrogan@uga.edu 706-542-7368
2. Jenny Nicholds, 953 College Station Rd., Athens, GA jnicholds@uga.edu; 706-542-1076
3. Eric Shepherd, 953 College Station Rd., Athens, GA shep54@uga.edu 706-542-4619
4. David French, 953 College Station Rd., Athens, GA; David.French@uga.edu: 254-709-5010
5. Monique S. França 953 College Station Rd., Athens, GA mfranca@uga.edu 706-542-1766
6. Susan Williams, 953 College Station Rd., Athens, GA smwillia@uga.edu 706-583-0523

Emeritus and Adjunct Faculty that are ACPV members:

1. Chuck Hofacre, Southeast Poultry Research Group, Athens, GA; clhofacre@thesprgroup.com (Emeritus)
2. Guillermo Zavala, Avian Health, LLC; gzavala@avianhealthllc.com (Adjunct)
3. Ivan Alvarado , Merck Animal Health Athens, GA ivan.alvarado@merck.com 706-542-1904 (Adjunct)
4. Hector Cervantes, 1031 Westchester Court, Watkinsville, GA 30677 Hector.Cervantes@pahc.com 706-310-0083 (Adjunct)
5. Luis Gomez, Phibro Animal Health; luis.gomez@pahc.com

6. Have there been any changes to the program since the previous year including program funding, staff, facilities support, etc? If so please explain.

Dr. David French joined the faculty on January 1, 2020.
Dr. Karen Grogan was named Graduate Coordinator of the MAM and MAHM programs in February 2019.

7. Current Student Enrollment 2019-2020 (number of students and names):

This year’s total enrollment: 6

Student’s names:

- Andrew Paul Bishop
- Randi Clark
- Angela Michelle Stewart
- Linnea Tracy
- Katharine Shamoun
- Chang Hee Lee

8. Students that Graduated last year (2019) (number of students and names):

12/2018 Graduates:

1. Brandon Armwood
2. Luke Baldwin
3. Abigail Reith

12/2019 Graduates

1. Michelle Stewart
2. Randi Clark
3. Andy Bishop

8. How many students that graduated from your program submitted an application for the ACPV exam in 2019?

All three 2018 graduates applied to sit for the 2019 ACPV Exam

9. Of these students, how many graduates were successful in their application to sit for the ACPV exam in 2019?

1. All 3 graduates were credentialed to sit for the 2019 exam

10. How many or what percent of these participants passed all 3 sections of the ACPV exam?

1. Two of the graduates passed all 3 sections of the exam

If the participant (s) did not pass the entire exam, how many passed 1 of 3 sections (1/3) of the exam?

N/A

If the participant (s) did not pass the entire exam, how many passed 2 of 3 sections (2/3) of the exam?

One graduate passed 2/3 sections.

ACPV BOARD OF GOVERNOR'S ADDITIONAL COMMENTS:

TRAINING PROGRAM REVIEW COMMITTEE ASSESSMENT
ACPV Standards for Approved Programs for Poultry Veterinarians
2019

Program: **University of Georgia Master's in Avian Medicine**

Program Qualifications: The standards for ACPV poultry veterinary medicine training programs include:

Score	Item	Criteria
X	1	The training program must be formally affiliated with and administered by an accredited college or university
X	2	Missions, goals, objectives and outcomes must be clearly defined. There must be an effective system (assessment plan) for evaluating outcomes of the program relative to its missions, goals and objectives
X	3	There must be at least 3 resident or affiliated faculty members who are Diplomates of the American College of Poultry Veterinarians with credentials/experience in poultry medicine
X	4	Resident recruitment, admissions and selection criteria must be clearly defined and practiced.
X	5	A written curriculum statement must have structure and include course descriptions and field exposure. An outline of the educational objectives and learning activities is required.
X	6	The program must include a minimum of 12 months of formal education (training). Formal courses must be included in the curriculum for the program.
X	7	There must be demonstration of a significant link or relationship with the formal training that involves direct contact with the poultry industry as reflected by case load/accessions, companies served, industry problems solved and externship/internship arrangements with companies and ACPV poultry veterinarians
X	8	There must be evidence of adequate financial support, staff and facilities, including equipment consistent with internship/residency post-DVM education
X	9	Participants of each program are expected to be eligible to sit for the ACPV examination and successfully complete the requirements for ACPV Diplomate
X	10	As part of the training, students should be afforded the opportunity and encouraged to participate as presenters at scientific meetings as well as opportunity for continuing education while in the program

Score:

X – Program meets requirement

O – Program is deficient in requirement

Annual ACPV Approved Training Program Review Form

Updated March 2011

Review Date:

July 6, 2020

1. Name of Training Program and Address:

Master of Avian Health and Medicine
University of Georgia
953 College Station Road
Athens, GA 30602

2. Training Program mission, goals and objectives:

Mission: The mission of this program is to provide an educational opportunity for a larger number of veterinarians to specialize in poultry (chicken and turkey) health

Goals:

1. To educate veterinarians desiring additional training as poultry specialists
2. To develop and maintain an on-line training program for poultry veterinarians
3. To train students in a manner that they will keep current employment or gain new employment in the poultry industry
4. To provide the education and training to qualify to sit for the American College of Poultry Veterinarians Board Certification Exam.

Objectives:

1. Provide knowledge to poultry veterinarians worldwide
2. Expand the student base for training programs at both institutions

3. Affiliated University(s):

University of Georgia

4. Primary Program Contact:

Dr. Karen Grogan, 706-542-6390

5. When do your students graduate from the program? Circle all that apply

- May
- August
- December

5. ACPV Diplomate Faculty Members:

Name	Address	Email	Tel
2. Dr. Karen Burns Grogan	953 College Station Road Athens, GA 30602	kbrogan@uga.edu	770-542-6390
3. Dr. Monique S. Franca	953 College Station Road Athens, GA 30602	mfranca@uga.edu	706-542-1766
4. Dr. Jenny Nicholds	953 College Station Road Athens, GA 30602	jnicholds@uga.edu	706-542-1076
5. Dr. Naola Ferguson-Noel	953 College Station Road Athens, GA 30602	naolaf@uga.edu	706-542-1904
6. Dr. Eric Shepherd	953 College Station Road Athens, GA 30602	Shep54@uga.edu	706-542-4619
7. Dr. David French	953 College Station Road Athens, GA 30602	David.French@uga.edu	254-709-5010
7. Dr. Stan Kleven EMERITUS	953 College Station Road Athens, GA 30602	skleven@uga.edu	770-542-1904

6. Have there been any changes to the program since the previous year including program funding, staff, facilities support, etc? If so please explain.

Dr. David French joined the faculty on January 1, 2020.
Dr. Karen Grogan was appointed to be Graduate Coordinator of the MAHM program February 2019.

7. Current Student Enrollment 2019-2020 (number of students and names):

This year's total enrollment: 7

Student's names:

Lucas Nickel

Carrie Illies

Elizabeth (Sara) Reichelt

Ellen Lapuck

Genevieve Huard

Brandon Frederick Doss

Christopher Landon Magee

8. Students that Graduated last year (2019) (number of students and names):

8 students

Burch, Dustin

Gerken, Elise

Jacob, Roymon

LaBounty, Judith

Mahabalarao, Manjunath

Mountainspring, Grace

Severyn, Marie

Wiegel, Jeanine

9. How many students that graduated from your program submitted an application for the ACPV exam in 2019?

Five graduates applied to take the ACPV exam in 2019

10. Of these students, how many graduates were successful in their application to sit for the ACPV exam in 2019?

3 graduates were accepted to sit for the exam in 2019

11. How many or what percent of these participants passed all 3 sections of the ACPV exam?

1/3 passed all 3 sections (Dr. Judith Labounty)

12. If the participant (s) did not pass the entire exam, how many passed 1 of 3 sections (1/3) of the exam?

13. If the participant (s) did not pass the entire exam, how many passed 2 of 3 sections (2/3) of the exam?

I believe the other 2 candidates did not pass 1 section, but I do not know - would be Dr. Dustin Burch and Dr. Roy Jacob.

ACPV BOARD OF GOVERNOR'S ADDITIONAL COMMENTS:

TRAINING PROGRAM REVIEW COMMITTEE ASSESSMENT
ACPV Standards for Approved Programs for Poultry Veterinarians
2019

Program: **University of Georgia Master's in Avian Health and Medicine (On-line)**

Program Qualifications: The standards for ACPV poultry veterinary medicine training programs include:

Score	Item	Criteria
X	1	The training program must be formally affiliated with and administered by an accredited college or university
X	2	Missions, goals, objectives and outcomes must be clearly defined. There must be an effective system (assessment plan) for evaluating outcomes of the program relative to its missions, goals and objectives
X	3	There must be at least 3 resident or affiliated faculty members who are Diplomates of the American College of Poultry Veterinarians with credentials/experience in poultry medicine
X	4	Resident recruitment, admissions and selection criteria must be clearly defined and practiced.
X	5	A written curriculum statement must have structure and include course descriptions and field exposure. An outline of the educational objectives and learning activities is required.
X	6	The program must include a minimum of 12 months of formal education (training). Formal courses must be included in the curriculum for the program.
X	7	There must be demonstration of a significant link or relationship with the formal training that involves direct contact with the poultry industry as reflected by case load/accessions, companies served, industry problems solved and externship/internship arrangements with companies and ACPV poultry veterinarians
X	8	There must be evidence of adequate financial support, staff and facilities, including equipment consistent with internship/residency post-DVM education
X	9	Participants of each program are expected to be eligible to sit for the ACPV examination and successfully complete the requirements for ACPV Diplomate
X	10	As part of the training, students should be afforded the opportunity and encouraged to participate as presenters at scientific meetings as well as opportunity for continuing education while in the program

Score:

X – Program meets requirement

O – Program is deficient in requirement

Annual ACPV Approved Training Program Review Form

Updated March 2011

Review Date: 07-17-2020	
--------------------------------	--

1. Name of Training Program and Address:

Master of Veterinary Science, Poultry Specialty
Poultry Research and Diagnostic Laboratory
P. O. Box 97813 Pearl, MS 39288

2. Training Program mission, goals, and objectives:

Mission: Provide students with a high-quality program of study, practical experience, and applied research that leads to an advanced degree which ultimately allows them to make substantial and sustained contributions to the field of poultry medicine.

Goals: Provide students with:

- Relevant advanced academic study beyond the professional degree
- Scholarly activities and an environment conducive to learning
- Opportunities in which they can develop methods of independent and systematic investigation

Objectives:

- Provide students with the necessary skills and understanding to enable them to make sound judgments relative to the diagnosis, treatment, and management of poultry diseases
- Offer coursework that will serve as a solid foundation on which the student will be able to expand as new scientific and technological developments become available
- Emphasize an understanding of the principles of preventative medicine and quality control as they relate to commercial poultry
- Develop a thorough understanding of industry operations and current problems through exposure of students to poultry industry personnel at all levels of responsibility
- Train students in routine monitoring programs utilized by the poultry industry, such as, but not limited to, coccidiosis, posting sessions, hatching egg residue breakouts, hatchery sanitation monitoring, chick checks, Salmonella and Mycoplasma monitoring programs, Avian influenza monitoring programs.
- Provide updates on current trends in the poultry industry: restrictions on antibiotics use and alternatives to the antibiotics use, antimicrobial resistance, cage-free birds, animal welfare.
- Mentor students so that they can design and conduct practical research projects.
- Qualify students so that they are eligible to take the exam for the ACPV

3. Affiliated University(s): Mississippi State University, College of Veterinary Medicine

4. Primary Program Contact: Martha Pulido-Landinez

5. When do your students graduate from the program? Circle all that apply

May – Typically in May

August

December

5. ACPV Diplomate Faculty Members:

Name	Address	Email	Tel
Dr. Danny Magee	3137 Highway 468 West. Pearl, MS. 39208-PRDL	dlm24@msstate.edu	601-932-6771
Dr. Alejandro Banda	3137 Highway 468 West. Pearl, MS. 39208-PRDL	ab665@msstate.edu	601-932-6771
Dr. Natalie Armour	3137 Highway 468 West. Pearl, MS. 39208-PRDL	na509@msstate.edu	601-932-6771
Dr. Martha Pulido	3137 Highway 468 West. Pearl, MS. 39208 -PRDL	mp1203@msstate.edu	601-932-6771
Dr. Sue Ann Hubbard	Mt. Olive, MS	sue.hubbard@merck.com	601-421-9722
Dr. Kelli Jones	Flora, MS	kelli.jones@ceva.com	601-953-5413
Dr. Phil Stayer	Laurel, MS	phil.stayer@sandersonfarms.com	601-426-1338
Dr. Tim Cummings	Zoetis	tim.cummings@zoetis.com	662-312-8875
Dr. Mark Burleson	Wayne Farms	mark.burleson@waynefarms.com	256-306-1047

(Drs. Hubbard, Jones, Stayer, Cummings, and Burleson are adjunct faculty to Mississippi State University)

6. Have there been any changes to the program since the previous year including program funding, staff, facilities support, etc? If so please explain.

- We continue receiving an important financial support for our Master Program from Elanco Animal Health (2019-2020).
- Two new companies are giving us important financial support: Merck Animal Health (MSD) and BioCheck.

7. Current Student Enrollment 2019-2020 (number of students and names):

This year's total enrollment: 2

Student's names:

Leslie Johnson – senior student, graduated in May 2019.

Eric Orozco – senior student in June 2019.

Hailey Quercia – junior student starting June 2019.

8. Students that Graduated last year (2019) (number of students and names):

One: Leslie Johnson

8. How many students that graduated from your program submitted an application for the ACPV exam in 2019? One

9. Of these students, how many graduates were successful in their application to sit for the ACPV exam in 2019? One

10. How many or what percent of these participants passed all 3 sections of the ACPV exam? None

If the participant (s) did not pass the entire exam, how many passed 1 of 3 sections (1/3) of the exam? One. This information refers to one student taking two parts of the exam for second time.

If the participant (s) did not pass the entire exam, how many passed 2 of 3 sections (2/3) of the exam? one

ACPV BOARD OF GOVERNOR'S ADDITIONAL COMMENTS:

TRAINING PROGRAM REVIEW COMMITTEE ASSESSMENT
ACPV Standards for Approved Programs for Poultry Veterinarians
2019

Program: Mississippi State University

Program Qualifications: The standards for ACPV poultry veterinary medicine training programs include:

Score	Item	Criteria
X	1	The training program must be formally affiliated with and administered by an accredited college or university
X	2	Missions, goals, objectives and outcomes must be clearly defined. There must be an effective system (assessment plan) for evaluating outcomes of the program relative to its missions, goals and objectives
X	3	There must be at least 3 resident or affiliated faculty members who are Diplomates of the American College of Poultry Veterinarians with credentials/experience in poultry medicine
X	4	Resident recruitment, admissions and selection criteria must be clearly defined and practiced.
X	5	A written curriculum statement must have structure and include course descriptions and field exposure. An outline of the educational objectives and learning activities is required.
X	6	The program must include a minimum of 12 months of formal education (training). Formal courses must be included in the curriculum for the program.
X	7	There must be demonstration of a significant link or relationship with the formal training that involves direct contact with the poultry industry as reflected by case load/accessions, companies served, industry problems solved and externship/internship arrangements with companies and ACPV poultry veterinarians
X	8	There must be evidence of adequate financial support, staff and facilities, including equipment consistent with internship/residency post-DVM education
X	9	Participants of each program are expected to be eligible to sit for the ACPV examination and successfully complete the requirements for ACPV Diplomate
X	10	As part of the training, students should be afforded the opportunity and encouraged to participate as presenters at scientific meetings as well as opportunity for continuing education while in the program

Score:

X – Program meets requirement

O – Program is deficient in requirement



**Mississippi State University College of Veterinary Medicine
Master of Veterinary Science, Poultry Specialty
American College of Poultry Veterinarians (ACPV) Training Program**

1. Master Program Objectives:

- Provide students with the necessary skills and understanding to enable them to make sound judgments relative to the diagnosis, treatment and management of poultry diseases.
- Offer coursework that will serve as a solid foundation on which the student will be able to expand as new scientific and technological developments become available.
- Emphasize an understanding of the principles of preventative medicine and quality control as they relate to commercial poultry.
- Develop a thorough understanding of industry operations and current problems through exposure of students to poultry industry personnel at all levels of responsibility.
- Train students in routine monitoring programs utilized by the poultry industry, such as, but not limited to, coccidiosis, posting sessions, hatching egg residue breakouts, hatchery sanitation monitoring, chick checks, Salmonella and Mycoplasma monitoring programs, avian Influenza monitoring programs.
- Provide updates on current trends in the poultry industry: use of antibiotics, antimicrobial resistance, cage-free birds, animal welfare.
- Mentor students so that they can design and conduct practical research projects.
- Qualify students so that they are eligible to take the exam for the ACPV.



2. Master Program modalities:

Master of Science in Veterinary Medical Science (VMS) - Veterinary Medical Research Concentration (VMRC) – Poultry

Requirements	Hours/Credits
Graduate-level coursework (at least 12 hours of all coursework credits must be 8000-level or above) ¹	19-20
One statistics course ^{1,2}	3 -4
One seminar course (CVM 8011 or equivalent) ¹	1
CVM 8000 Thesis Research/ Thesis in Veterinary Medicine	6
Total hours	30

¹ Equivalency of seminars and coursework is determined by the student’s graduate committee.

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student’s graduate committee.

Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

Master of Science in Veterinary Medical Science (VMS) – Population Medicine Non – Thesis Concentration (PMNT) - Poultry

Requirements	Hours/Credits
Graduate-level coursework (at least 15 hours of all coursework credits must be 8000-level or above) ¹	30-31
One statistics course ^{1,2}	3-4
One seminar course (CVM 8011 or equivalent) ¹	1
Total hours	35

¹ Equivalency of seminars and coursework is determined by the student’s graduate committee.

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student’s graduate committee.

Transfer of credits for any previously taken courses is subject to the MSU Bulletin of the Graduate School policy. Graduate level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

Final examination (oral and/or written)

Final examination covers both the major and supportive fields. For research concentration students, defense of the thesis is required. Research concentration students must present an open seminar of their research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.



3. Course curriculum

3.1. Core courses

Subject	Course	Title	Course description	Frequency	Credits
CVM	8113	Advances Diseases of Poultry	Three hours lecture. Advanced study of the major poultry diseases; the mechanisms of each disease, diagnosis, prevention and control.	Fall	3
CVM	8013	Poultry Virology	Three hours lecture. Description of poultry viruses of importance. Topics on individual agents: morphology, classification, character of disease, epizootiology, pathogenesis, immunity, cultivation, diagnosis, prevention, control, and zoonotic potential.	Fall and Spring as needed	3
CVM	8033	Poultry Histopathology	Three hours lecture. Microscopic anatomy and diagnosis of major poultry diseases. Tissues histologic reactions to injury from physical – mechanical, genetic-based, metabolic, viral, bacterial and protozoan insults. Writing histopathology results.	Fall	3
CVM	7000 DIS (8000 after registration)	Poultry bacterial & fungal diseases	Three hours lecture. Description of poultry bacterial and fungal diseases of importance. Agent characteristics and pathomechanisms, pathobiology and epidemiology, pathogenesis, clinical signs and lesions, prevention, control, treatment. basic avian pharmacology. Bacterial antimicrobial resistance. Public health significance of bacterial diseases (foodborne illness agents and/or with zoonotic potential). Main USA regulations related with poultry bacterial diseases.	As needed	3
CVM	7000 DIS (8000 code after registration)	Poultry Medicine and Management	Three-hour lecture. An applied course incorporating topics relevant to the poultry veterinarian, including nutrition, pharmacology, vaccinology, intestinal health, coccidiosis, reproduction, hatchery, processing, food safety, welfare and regulations. In addition, the course covers important aspects of the health and management of various poultry species. Some components of the course are taught in the field.	As needed	3
CVM	8801	Lab Diagnostic Services	Variable hours practicum (1-9 hours). (May be repeated for credit). Poultry necropsies (clinical cases) and experimental training in laboratory investigation of animal health-related problems to include pathological, microbiological, parasitic, and toxicological problems.	As needed	1-9

CVM: College of Veterinary Medicine - PRDL courses



3.1. Core courses (cont.)

Subject	Course	Title	Course description	Frequency	Credits
CVM	8503	Epidemiology and Biostatistics (MSU mandatory course)	Three-hour lecture. Fundamental principles of descriptive and analytical epidemiology.	Spring	3
CVM	8011	Poultry Seminar (MSU mandatory course)	One-hour lecture. Seminar of poultry cases studies (rounds) which provides the student with a forum for presentation of clinical cases in Avian medicine. Students will receive guidance on effective oral presentation techniques and question formulation.	As needed	1
CVM	7000 DIS (8000 code after registration)	Poultry international fieldtrip	One-week international field trip. Intensive practical course. Visits to different farms of the same company, identifying differences associated with poultry production in different countries while providing the student knowledge in disease and management situations that differ from those the student has observed in the United States.	Spring Fall	3
CVM	8105	Avian Extern Ship	Extensive field experience with poultry companies is provided. Breeder, pullet, layer, and broiler management, ration formulation, poultry inspection, and hatchery practices are emphasized.	As scheduled	1-5



3.2. Elective courses

Subject	Course	Title	Course description	CREDITS
PO	6844	Avian Anatomy & Physiology	Three hours lecture. Two hours laboratory. Anatomy and physiology of the fowl with emphasis on morphology, structure, and function of the avian body. (Same as PHY 6844)	3
PO	6313	Management of Commercial layers	Three hours lecture. Management of laying flocks as related to production of edible eggs; including housing, cage design, equipment, feeding techniques, lighting, molting and other factors involved with efficient production	3
PO	6324	Avian reproduction	Three hours lecture. Two hours laboratory. Principles of avian reproductive physiology and applications in poultry management to maximize reproductive performance. Reproductive characteristics of several bird species are included	3
PO	6333	Broiler Production	Three hours lecture. Practical management problems encountered in the production of broilers including breeding, housing, brooding, diseases, and feeding; field trips to intensified broiler areas	3
PO	6413	Poultry Nutrition	Three hours lecture. Study of the digestion, absorption, and metabolism of nutrients in avian species. Special emphasis is given to practical nutritional needs of commercial poultry flocks	3

PO: Poultry Science courses

Annual ACPV Approved Training Program Review Form

Updated March 2011

Review Date:	7/15/2020
---------------------	------------------

1. Name of Training Program and Address: Residency: Poultry Health Management College of Veterinary Medicine North Carolina State University	
2. Training Program mission, goals and objectives:	A comprehensive explanation of our program is attached.
1. Gain knowledge and experience in poultry production, disease prevention, diagnosis, and treatment 2. Build a strong network within the poultry industry 3. Eligibility to sit the American College of Poultry Veterinarians (ACPV) specialty board examinations	
3. Affiliated University(s): North Carolina State University	
4. Primary Program Contact: Rocio Crespo (since August 2018), Luke Borst (August 2017-August 2018)	
5. When do your students graduate from the program?	July 2018-July 2019 12 Month Program

5. ACPV Diplomate Faculty Members:			
Name	Address	Email	Tel
Rocio Crespo	College of Veterinary Medicine 1060 William Moore Drive, Raleigh, NC	rcrespo@ncsu.edu	919.513.6254
Isabel Gimeno	College of Veterinary Medicine 1060 William Moore Drive, Raleigh, NC	imgimeno@ncsu.edu	919.513.6852
James S. Guy	College of Veterinary Medicine 1060 William Moore Drive, Raleigh, NC	jsguy@ncsu.edu	919.513.6287
Oscar Fletcher (Emeritus)	College of Veterinary Medicine 1060 William Moore Drive, Raleigh, NC	ojfletch@ncsu.edu	919.513.6491
H. John Barnes (Emeritus)	College of Veterinary Medicine 1060 William Moore Drive, Raleigh, NC	hjbarnes@ncsu.edu91 9-513-6491	919.513.6273

6. Have there been any changes to the program since the previous year including program funding, staff, facilities support, etc.? If so please explain.

In August 2018 Dr. Rocio Crespo joined NCSU as a faculty member. She is also the person responsible for this program Dr. Mike Martin separated from NSCU in 2017. He is no longer with NCSU. In the interim (2017-18) Dr. Luke Borst acted as the program coordinator. Dr. Barnes and Fletcher have both retired but remain engaged in the residency training program as emeritus professor.

7. Current Student Enrollment 2018-2019 (number of students and names):

This year's total enrollment: 2

Student's names: Sesny Gall
 Fernando Ruiz Jimenez (starts July 2019)

8. Students that Graduated last year (2018) (number of students and names):

1. Laura Chen

8. How many students that graduated from your program submitted an application for the ACPV exam in 2018? 1

9. Of these students, how many graduates were successful in their application to sit for the ACPV exam in 2018? 1

10. How many or what percent of these participants passed all 3 sections of the ACPV exam? 1

If the participant (s) did not pass the entire exam, how many passed 1 of 3 sections (1/3) of the exam? NA

If the participant (s) did not pass the entire exam, how many passed 2 of 3 sections (2/3) of the exam? NA

ACPV BOARD OF GOVERNOR'S ADDITIONAL COMMENTS:

TRAINING PROGRAM REVIEW COMMITTEE ASSESSMENT
ACPV Standards for Approved Programs for Poultry Veterinarians
2019

Program: **North Carolina State University**

Program Qualifications: The standards for ACPV poultry veterinary medicine training programs include:

Score	Item	Criteria
X	1	The training program must be formally affiliated with and administered by an accredited college or university
X	2	Missions, goals, objectives and outcomes must be clearly defined. There must be an effective system (assessment plan) for evaluating outcomes of the program relative to its missions, goals and objectives
X	3	There must be at least 3 resident or affiliated faculty members who are Diplomates of the American College of Poultry Veterinarians with credentials/experience in poultry medicine
X	4	Resident recruitment, admissions and selection criteria must be clearly defined and practiced.
X	5	A written curriculum statement must have structure and include course descriptions and field exposure. An outline of the educational objectives and learning activities is required.
X	6	The program must include a minimum of 12 months of formal education (training). Formal courses must be included in the curriculum for the program.
X	7	There must be demonstration of a significant link or relationship with the formal training that involves direct contact with the poultry industry as reflected by case load/accessions, companies served, industry problems solved and externship/internship arrangements with companies and ACPV poultry veterinarians
X	8	There must be evidence of adequate financial support, staff and facilities, including equipment consistent with internship/residency post-DVM education
X	9	Participants of each program are expected to be eligible to sit for the ACPV examination and successfully complete the requirements for ACPV Diplomate
X	10	As part of the training, students should be afforded the opportunity and encouraged to participate as presenters at scientific meetings as well as opportunity for continuing education while in the program

Score:

X – Program meets requirement

O – Program is deficient in requirement

Poultry Health Management - Clinical Residency Program

Plans & Procedures 2016-19

North Carolina State University College of Veterinary Medicine (NCSU CVM) offers a unique opportunity for post-veterinary professional development: a Residency in Poultry Health and Welfare (PHW). Successful completion of this 24-month program will result in certification of Residency completion. This program provides post-veterinary training in the identification and control of factors impacting poultry health, welfare, and production. Goals of the program are to prepare veterinarians for productive roles in the modern poultry industry and provide training and experiences to promote eligibility for certification by the American College of Poultry Veterinarians.

Poultry Health and Welfare Residents (called House Officers) will be engaged in a two-year program that includes participation in 1) field investigations and research related to poultry health and disease prevention, 2) application and interpretation of diagnostic technology e.g. serology, microbiology, and pathology, 3) didactic and seminar courses on poultry health and epidemiological problem solving, 4) teaching activities of the Poultry Health and Welfare faculty, and 5) production of commercial turkey and broiler flocks at the NCSU CVM Teaching Animal Unit.

The Poultry Health and Welfare program makes use of resources at the NCSU College of Veterinary Medicine, NCSU Prestage Department of Poultry Science & Cooperative Extension Service, North Carolina Department of Agriculture & Consumer Services (including Veterinary Services - Animal Disease Diagnostic Laboratories and Emergency Programs), Regional Office of the United States Department of Agriculture, integrated poultry production companies, and allied industries.



ORIENTATIONS

CVM orientation for new PHW House Officers is concurrent with CVM interns or residents and occurs in the latter part of June/early part of July. The orientation typically begins at 8:00 AM in the Terry Center. Employment procedures, licensure, College, departmental and program policies and responsibilities, vehicle use, tour of facilities, and introductions will be covered. PHW House Officers will make an appointment with Dr. Rocio Crespo for orientation specific to the PHW program at the CVM including review of this Plans & Procedures document, discussion of the programmatic requirements, and review of CVM procedures relevant to the clinical activities of PHW House Officers.

PHW HOUSE OFFICER RESPONSIBILITIES

The resident mentor committee led by Dr. Rocio Crespo will coordinate each PHW house officer's two-year plan and coordinate the clinical and externship activities. House Officer involvement in any project requiring a significant time commitment (travel, meetings, clinical trials, research projects, field experience, etc.) must be communicated in writing (e-mail OK) to Dr. Crespo and approved by the Coordinating Committee. Further, there is paperwork required by the CVM that must be filled out for travel, even if no reimbursement is requested.

PHW faculty members are Drs. John Barnes (Emeritus), Oscar Fletcher (Emeritus), Isabel Gimeno, Jim Guy, Rocio Crespo and Dennis Wages. Dr. Luke Borst (Pathology faculty) collaborates with the PHW faculty and serves on the PHW House Officer Advisory Committee. Members of the poultry industry and NC Department of Agriculture serve as adjunct faculty. PHW House Officers are encouraged and expected to interact closely with PHW faculty in preparation for seminars, involvement in teaching, clinical service, and extension-engagement activities, and development and implementation of research projects.

GENERAL

The PHW House Officer's primary responsibility will be to complete the programmatic requirements that will be provided. Details of the programmatic requirements will be discussed with Dr. Crespo. Within these requirements, House Officers will participate in the teaching, clinical service, and extension-engagement programs of the PHW faculty. House Officers will also help develop and participate in research projects in conjunction with the PHW faculty, PHW adjunct faculty, and PHW Advisory Committee. A primary goal of this training program is to prepare PHW House Officers for certification by the American College of Poultry Veterinarians (ACPV). This requires submission of the ACPV application and supporting materials by 2nd year House Officers by either October 1st, November 1st or December 1st (dependent on the deadline set by the ACPV). Successful credentialing at that time will enable House Officers to sit for the ACPV examination in July of the following calendar year. Progress in the PHW House Officer program will be managed and evaluated relative to meeting ACPV credentialing requirements.

Master's Degree

It is possible to concurrently enroll in a thesis based Master's Degree. Interested students should inquire after being accepted into the residency program. With the assistance of the resident's committee, a research faculty mentor can be identified for students interested in pursuing a concurrent thesis Master's Degree.

SPECIFIC

1) CLINICAL ACTIVITIES

House Officers will contribute to the clinical service activities of the PHW program through involvement with clients, diagnostic investigations and problem solving, development of health recommendations, clinical research studies, and interaction with various diagnostic laboratories. These activities will require House Officers to maintain records of clinical activities so that faculty and future House Officers can follow up on cases. Publication of case reports and/or clinical studies are necessary to meet the credentialing requirements for the American College of Poultry Veterinarians.

In addition to clinical teaching and service activities with the PHW faculty, each House Officer will also spend time working with adjunct faculty at commercial broiler, turkey, and table egg production facilities. Additional field experience may be provided through the North Carolina

Department of Agriculture Animal Disease Diagnostic Laboratories, United States Department of Agriculture, and NCSU Prestage Department of Poultry Science, and Poultry Extension Service.

2) CONFERENCES, COURSE WORK, AND SEMINARS

PHW House Officers must attend conferences, lectures, seminars, and courses that are agreed on by the Advisory Committee. House Officers may also wish to participate in the NCSU, CVM Student Chapter of the American Association of Avian Pathologists (CVM Poultry Club). Attendance at house officer seminars and presentation of 1 seminar per year is required by NC State Teaching Hospital.

Oral examination of the house officers is a programmatic requirement. The oral exam requirement is accomplished by the cumulative satisfactory performance in PHW seminars/discussions, presentations during PHW seminars and local and/or national conferences, and completion and presentation of several mock clinical cases to the Advisory Committee. Presentation of 2 in-house seminars as part of the House Officer Seminar series is also required.

3) RESEARCH AND WRITTEN REPORTS

Three publication quality manuscripts, either case reports or research-based, (drafts due March and completed manuscripts due June of the House Officer's second year) are required to complete the program. House Officers are expected to have or develop proficiency in digital photography and image editing, word processing (Word), spreadsheet (Excel), presentation (PowerPoint), and database management skills.

PHW House Officer/MS students will choose research projects depending upon interest based on consultations with and approval of PHW faculty. Dr. Gimeno will coordinate research activities. A PHW faculty member or agreed upon collaborative CVM faculty member must be clearly identified with each new research project or clinical case write up and will supervise the project. It is important that House Officer activities and time commitments be communicated to and coordinated with all participating faculty.

4) POULTRY HEALTH AND WELFARE ROUNDS/SEMINAR

PHW Rounds/Seminars are held at Noon each Monday in the PHW conference room (C-330). PHW Residents are required to attend, will actively participate in discussions, and make at least two presentations approximately 30 minutes in length each semester on their current research, field projects, current literature topics, or specific topics of interest. Oral reports of the TAU will also be made by the 1st year House Officer during PHW seminar. Dr. Crespo coordinates the course and presentations and coordinates TAU reports. Please inform Dr. Crespo of presentation topics at the beginning of each semester. Topics for presentation should be contemporary and of interest to both the House Officer and those attending. Experiences during the program, including recent cases, topics or issues in the poultry industry, clinical research studies, or faculty activities provide good subjects for presentations. House Officers are encouraged to consult with PHW faculty and use resources of the CVM to prepare their presentations. All potential known conflicts with seminar attendance should be identified and discussed with Dr. Crespo prior to the start of each semester.

5) POULTRY HEALTH AND WELFARE HISTOPATHOLOGY ROUNDS

PHW histopathology rounds are held on Wednesdays from 10am-12pm in C-330 and are headed by Drs. Oscar Fletcher, and Tahseen Aziz. House Officers are required to attend these sessions when possible given the rest of their activities. During these rounds, House Officers will become more familiar with normal histopathology interpretation, histopathological diagnosis, and

current disease problems affecting avian species. Inability to attend should be discussed as soon as possible with Drs. Fletcher, and Crespo.

6) TEACHING RESPONSIBILITIES

House Officers will participate in the clinical and didactic instruction of the PHW faculty. These responsibilities may include but are not limited to 1) participation in veterinary student clinical rotations (VMP 982, VMP 983 Advanced Poultry Health Management I and II & VMP 974 Food Supply Veterinary Medicine) including instruction in poultry anatomy, diagnostic techniques, necropsy, and farm evaluation and 2) attendance and participation as possible in VMP 401 and 964 including presenting lectures and helping with instruction of laboratories, and 3) participation and assistance in classes, laboratories and production courses (VMP 916, 936, 956, and 971).

7) TEACHING ANIMAL UNIT

House Officers are responsible for veterinary oversight of the turkey and broiler flocks produced in the CVM Teaching Animal Unit (TAU). The 1st year House Officer will have primary veterinary responsibility for each flock including reporting results in oral (PowerPoint) presentations at PHW seminars and in a final written report (summarizing production, mortality, diagnostics, and processing data). The 2nd year House Officer will assist and serve as an informational resource for the 1st year House Officer. Drs. Crespo ~~and Wages~~* will provide direct supervision of House Officer TAU responsibilities and activities. Members of the residency advisory committee will provide assistance with necropsy of TAU mortality.

8) SCIENTIFIC MEETINGS AND EXTERNSHIPS

Participation in scientific conferences, poultry industry meetings, and clinical externships provides PHW House Officers with valuable educational experiences and contact with poultry industry personnel and is strongly encouraged. Meetings usually attended include: National Poultry Health and Processing Meeting, Southern Conference of Avian Disease/International Poultry Expo, AVMA/AAAP, North Carolina Poultry Veterinarians Meeting, and in-state poultry producer conferences. Discussion of past externship opportunities with the PHW faculty and past residents is encouraged.

The amount of time and funding available for approved externships and meetings is variable depending on existing PHW budget and specific interests of the House Officer. The PHP Department or CVM House Officer Program may also provide House Officers with resources for conference travel. All travel plans for meetings, conferences, and externships must be requested by the House Officer in writing and approved by Dr. Crespo ~~or Dr. Wages~~* (general travel authorization will need to be made by the Population Health and Pathobiology department chair as well). The forms necessary for pre-and post-travel are: Request, Travel Authorization, Student Evaluation, Mentor Evaluation (as applicable), and Reimbursement (as applicable). All records of travel expenses must be kept by the House Officer for submission to the PHP Department for reimbursement (as applicable) and copies submitted to Dr. Crespo. House Officers are expected to 1) plan for the judicious use of funds available for travel and field experiences, 2) maintain records of expenditures and 3) submit on a timely basis (2 and 3 weeks in advance for in-State and out-of-State travel, respectively) Travel Authorization forms for all overnight stays. Most externships will be scheduled at the end of the 2nd year of the program. Externships require approval from Dr. Crespo or ~~Dr. Wages~~.*

* Dr. Wages retired in 2018

*Travel Authorization forms **must be completed whether or not overnight travel results in cost to the University.** It is the House Officer's responsibility to submit original travel authorizations to the PHP Dept. Office Assistant and submit copies to the Clinical Coordinator, Dr. Crespo, ~~or Externship Coordinator, Dr. Wages.~~**

OTHER ADMINISTRATIVE RESPONSIBILITIES

A) EVALUATIONS

House Officers will meet with the Advisory Committee for evaluation of their progress two times during the year. House Officer evaluation forms will be submitted to the Faculty Committee on House Officer Programs (FCHOP) by Nov. 1 and April 1 of each year during the PHW Residency. By April 1st of the House Officer's second year, the Advisory Committee will recommend for or against awarding a Certificate of Completion to each PHW House Officer.

There may be exit interviews with the Advisory Committee, PHP Department Head, and FCHOP for PHW House Officers to summarize their impressions of the program and suggest changes/improvements.

B) VACATION

Twelve days of vacation are available each year and **must be taken** before June 1 of the House Officer's second year. Prior to taking vacation, PHW House Officers will submit Annual Leave forms to the Clinical Coordinator (Dr. Crespo) for approval.

C) ANIMAL CARE AND USE

PHW House Officers must comply with the 'Principals for the Use of Animals' document (copy follows), and be certified as indicated below.

All Principal Investigators (as indicated on the AVAU) must be certified (successful completion of the examination) before the Application for Vertebrate Animal Use AVAU can be approved; PIs must be re-certified at least every three years after initial certification. All NCSU personnel who work unsupervised with experimental animals must be certified prior to performing animal manipulations and at least every three years thereafter. The process in each case is initiated by contacting the LAR office (CVM room A234; 513-6280; laroffice@ncsu.edu), which will provide a packet of material containing instructions for completing the training and an examination to be returned to the LAR office. The examination will be graded, and the individual, and the IACUC office, notified of successful completion (80% correct answers). The actual training will involve a series of internet sites selected to satisfy the specifically required topical areas. Personnel will be directed to sites that have sufficient information to successfully complete the exam, as well as links for more information. Because this basic training includes institution-specific information, completion of training at another institution may not substitute for NCSU certification.

PLAN OF WORK

The two-year Plan of Work) is intended to serve as a functional framework for the purposes of planning and organizing PHW training experiences for each House Officer's individual benefit, and to maintain efficient operations within the PHW faculty. Functioning within this framework is expected to be dynamic based on developing opportunities and individual priorities of each House Officer. This system can work to everyone's benefit if timely and clear communications are maintained among those involved.

Meetings of the Advisory Committees and House Officers will be held to evaluate and adjust as necessary the programmatic requirements and priorities of activities.

POULTRY HEALTH AND WELFARE RESIDENCY/HOUSE OFFICER ADVISORY COMMITTEE

Dr. Tahseen Aziz, **ACPV** (NCDA&CS)
Dr. H. John Barnes, ACVP, **ACPV** (NCSU CVM) [Emeritus]
Dr. Luke Borst ACVP (NCSU, CVM)
Dr. Donna Carver **ACPV** (NCSU Poultry Extension Service)
Dr. Rocio Crespo (Chair), **ACPV** (NCSU CVM)
Dr. Oscar Fletcher, ACVP, **ACPV** (NCSU CVM) [Emeritus]
Dr. Isabel Gimeno, **ACPV** (NCSU CVM)
Dr. James Guy, ACVM, **ACPV** (NCSU CVM)
Dr. Ravi Kulkarni (NCSU, CVM)
Dr. Jo Anna Quinn, **ACPV** (USDA)
Dr. Dennis Wages, **ACVP**

Annual ACPV Approved Training Program Review Form

Updated March 2011

Review Date:	July 16, 2020
---------------------	---------------

1. Name of Training Program and Address:

Food Animal Health Research Program
Ohio State University Poultry Health Program
1680 Madison Avenue
Wooster, OH 44691

2. Training Program mission, goals and objectives:

Mission: Train poultry health professionals.

Goals: Educate and train poultry disease researchers and specialists including veterinary students.

Objectives: Graduate at least one new poultry disease researcher or specialist every year.

3. Affiliated University(s):

The Ohio State University

4. Primary Program Contact:

Dr. Mo Saif

5. When do your students graduate from the program? Circle all that apply

May

August

December

6. ACPV Diplomate Faculty Members:

Name	Address	Email	Tel
------	---------	-------	-----

1. Mo Saif
1680 Madison Ave.
Wooster, OH 44691 USA
saif.1@osu.edu
330-263-3743
2. George Girgis
2625 North Loop Drive, Bldg 2,
Suite 2658
Ames, Iowa 50010
george@nevysta.com
515-512-2022

We have 3 other faculty members at Food Animal Health Research Program: Drs. Chang Won Lee, Gireesh Rajashekara and Daral Jackwood who are experts in poultry health research and participate in the training program.

6. Have there been any changes to the program since the previous year including program funding, staff, facilities support, etc? If so please explain.

NO

7. Current Student Enrollment 2019-2020 (number of students and names):

This year's total enrollment: 6

Student's names:

Michael Abundo, MS student

Mahesh KC, PhD student

Amir Ghorbani, PhD student

Dipak Kathayat, PhD student

Gary Closs, PhD student

Sochina Ranjit, MS student

Yosra Helmy, Research Scientist

John Ngunjiri, Research Scientist

Dhanashree, Post-doc Scholar

Linda Michel, Research Associate

8. Students that Graduated last year (2019-2020) (number of students and names): 2

Michael Abundo, MS

Mahesh KC, PhD

8. How many students that graduated from your program submitted an application for the ACPV exam in 2019-2020? None

9. Of these students, how many graduates were successful in their application to sit for the ACPV exam in 2019-2020?
N/A

10. How many or what percent of these participants passed all 3 sections of the ACPV exam?

If the participant (s) did not pass the entire exam, how many passed 1 of 3 sections (1/3) of the exam?

N/A

If the participant (s) did not pass the entire exam, how many passed 2 of 3 sections (2/3) of the exam?

ACPV BOARD OF GOVERNOR'S ADDITIONAL COMMENTS:

TRAINING PROGRAM REVIEW COMMITTEE ASSESSMENT
ACPV Standards for Approved Programs for Poultry Veterinarians
2019-2020

Program: **Ohio State University**

Program Qualifications: The standards for ACPV poultry veterinary medicine training programs include:

Score	Item	Criteria
X	1	The training program must be formally affiliated with and administered by an accredited college or university
X	2	Missions, goals, objectives and outcomes must be clearly defined. There must be an effective system (assessment plan) for evaluating outcomes of the program relative to its missions, goals and objectives
0	3	There must be at least 3 resident or affiliated faculty members who are Diplomates of the American College of Poultry Veterinarians with credentials/experience in poultry medicine Only resident faculty advisor that is Diplomate of ACPV is Dr. Saif. Dr. Girgis is adjunct faculty to the program and located in Iowa.
X	4	Resident recruitment, admissions and selection criteria must be clearly defined and practiced.
X	5	A written curriculum statement must have structure and include course descriptions and field exposure. An outline of the educational objectives and learning activities is required.
X	6	The program must include a minimum of 12 months of formal education (training). Formal courses must be included in the curriculum for the program.
X	7	There must be demonstration of a significant link or relationship with the formal training that involves direct contact with the poultry industry as reflected by case load/accessions, companies served, industry problems solved and externship/internship arrangements with companies and ACPV poultry veterinarians
0	8	There must be evidence of adequate financial support, staff and facilities, including equipment consistent with internship/residency post-DVM education Dr. Lossie's position is vacant. No plans for replacement were submitted.
0	9	Participants of each program are expected to be eligible to sit for the ACPV examination and successfully complete the requirements for ACPV Diplomate Current students are MS or PhD. No post-DVM candidates listed.
X	10	As part of the training, students should be afforded the opportunity and encouraged to participate as presenters at scientific meetings as well as opportunity for continuing education while in the program

Score:

X – Program meets requirement

O – Program is deficient in requirement

Annual ACPV Approved Training Program Review Form

Updated March 2011

June 12, 2020	
---------------	--

1. Name of Training Program and

Address:

Avian Medicine and Pathology Residency Program, Department of Veterinary and Biomedical Sciences and BVS Inc.
Animal Diagnostic Laboratory
100 Wiley Lane
Department of Veterinary and Biomedical Sciences
Pennsylvania State University
University Park, PA 16802-1110

2. Training Program mission, goals and objectives:

Mission:

The mission of the Avian Medicine and Pathology Residency Program at Penn State is to train veterinarians to become specialists in avian medicine.

Goals:

Specialists in Poultry Medicine are in high demand for careers in the commercial poultry industry, academia, teaching, diagnostic laboratories and government. The goal is to help place qualified, well-trained individuals in these areas.

Objectives :

1. To learn avian medicine and pathology by participating in diagnostic necropsy cases submitted to the laboratory.
2. To accompany avian veterinarians to client facilities to observe normal and diseased flocks in the field, interact with clients and develop diagnostic techniques, and learn skills in treatment, management and prevention of avian diseases.
3. To learn how to conduct applied research and field trials for diagnostic and preventative purposes.
4. To rotate through the diagnostic laboratory sections and follow and perform laboratory techniques in bacteriology, avian virology, molecular diagnostics, toxicology, histopathology, serology, immunology and parasitology.
5. To develop verbal and written skills through giving lectures, teaching of courses and preparation of publication-worthy manuscripts on interesting cases observed in the laboratory or in the field.

3. Affiliated University(s):

Department of Veterinary and Biomedical Sciences
College of Agricultural Sciences
Pennsylvania State University
University Park, PA 16802

4. Primary Program Contact:

Dr. Eva Wallner-Pendleton

5. When do your students graduate from the program?

June 30, 2020

6. ACPV Diplomate Faculty Members:

Name	Address	Email	Tel
Eva Wallner-Pendleton	ADL-Penn State	eaw10@psu.edu	814-865-7858
Patricia Dunn	ADL-Penn State	pad7@psu.edu	814-863-1983
Robert Owen	BVS-Mechanicsburg, PA	silverfoxvet@gmail.com	336-978-5712
Megan Lighty	ADL-Penn State	Mul132@psu.edu	814-863-0837

7. Have there been any changes to the program since the previous year including program funding, staff, facilities, support, etc?

Dr. Kariyawasam left Penn State in September 2018 and took a position at Florida State.

Dr. Slater moved out of State for another position. Dr. Robert Owen from BVS and adjunct professor, Penn State has joined us. Dr. Megan Lighty is also Board-certified and joined ADL in January 2020.

We are currently investigating if there is funding support from industry to continue the program in 2021. Eva Wallner-Pendleton is retiring in January 2021. If we receive funding, Dr. Megan Lighty will likely be the program lead and contact.

8. Current Student Enrollment 2018-2020 (number of students and names):

One student: Dr. Corissa Robinson (Steimling)

9. Students that Graduated last year (number of students and names): NA

10. How many students that graduated from your program submitted an application for the ACPV exam in 2019? N/A

10. a. Of these students, how many graduates were successful in their application to sit for the ACPV exam in 2020? N/A

10. b. How many or what percent of these participants passed all 3 sections of the ACPV exam? N/A

10. c. If the participant (s) did not pass the entire exam, how many passed 1 of 3 sections (1/3) of the exam? N/A

10. d. If the participant (s) did not pass the entire exam, how many passed 2 of 3 sections (2/3) of the exam? NA

ACPV BOARD OF GOVERNOR'S ADDITIONAL COMMENTS:

TRAINING PROGRAM REVIEW COMMITTEE ASSESSMENT
ACPV Standards for Approved Programs for Poultry Veterinarians
2019-2020

Program: **Penn State University**

Program Qualifications: The standards for ACPV poultry veterinary medicine training programs include:

Score	Item	Criteria
X	1	The training program must be formally affiliated with and administered by an accredited college or university
X	2	Missions, goals, objectives and outcomes must be clearly defined. There must be an effective system (assessment plan) for evaluating outcomes of the program relative to its missions, goals and objectives
X	3	There must be at least 3 resident or affiliated faculty members who are Diplomates of the American College of Poultry Veterinarians with credentials/experience in poultry medicine
X	4	Resident recruitment, admissions and selection criteria must be clearly defined and practiced.
X	5	A written curriculum statement must have structure and include course descriptions and field exposure. An outline of the educational objectives and learning activities is required.
X	6	The program must include a minimum of 12 months of formal education (training). Formal courses must be included in the curriculum for the program.
X	7	There must be demonstration of a significant link or relationship with the formal training that involves direct contact with the poultry industry as reflected by case load/accessions, companies served, industry problems solved and externship/internship arrangements with companies and ACPV poultry veterinarians
X	8	There must be evidence of adequate financial support, staff and facilities, including equipment consistent with internship/residency post-DVM education
X	9	Participants of each program are expected to be eligible to sit for the ACPV examination and successfully complete the requirements for ACPV Diplomate
X	10	As part of the training, students should be afforded the opportunity and encouraged to participate as presenters at scientific meetings as well as opportunity for continuing education while in the program

Score:

X – Program meets requirement

O – Program is deficient in requirement

Annual ACPV Approved Training Program Review Form

Updated March 2011

Review Date: <u>6/5/20</u>	
----------------------------	--

1. Name of Training Program and Address:

**Poultry Diagnostic Medicine
Residency, Purdue University
Animal Disease Diagnostic
Laboratory and Dept.
Comparative Pathobiology,
406 S. University St., West
Lafayette, IN 47907**

2. Training Program mission, goals and objectives:

Mission: The ADDL Poultry Diagnostic Medicine endowed program was established to provide education in poultry medicine for post DVM, DVM and undergraduate students in poultry medicine in order to insure an adequate number of trained individuals to provide service to the poultry industry.

Goals: The primary goals of the program are to give the resident adequate training in poultry practice in order to take the American College of Poultry Veterinarians board exam and to acquire an entry-level position in the poultry industry upon completion of the program. Part of the requirements for sitting the boards also includes the writing of 3 publication ready papers which will be expected of the resident.

Objectives:

- 1) To provide residency training in epidemiology, diagnosis, clinical management, extension and prevention of economically important diseases in domestic poultry species.**

2) To provide experience in designing, implementing and reporting clinical research trials and/or case reports related to poultry diseases and their management.

3) To provide assistance to senior clinicians in the delivery and administration of clinical poultry medicine services to clients of the ADDL.

4) To provide limited experience in teaching clinical poultry medicine to veterinary students on the Avian Block and other PVM courses.

3. Affiliated University(s): Purdue University

4. Primary Program Contact: Geoffrey A. Lossie

5. When do your students graduate from the program? Circle all that apply

Jun30XXXX

5. ACPV Diplomate Faculty Members:

See below (pg. 4)

6. Have there been any changes to the program since the previous year including program funding, staff, facilities support, etc? If so please explain.

Continuing support of \$20,000 / year from industry.
New Residency Coordinator (Geoffrey Lossie)
Retirement of previous coordinator (Dr. Pat Wakenell)

7. Current Student Enrollment 2020-2021 (number of students and names):

This year's total enrollment: 2

Student's names:

1. Dr. Laura
Morman

8. Students that Graduated last year (2019) (number of students and names):

This year's total enrollment:

Student's names: Kristen Hill-
Thimmesch (graduates June 30
2020)

8. How many students that graduated from your program submitted an application for the ACPV exam in 2020? X1 (Kristen Hill-Thimmesch)

9. Of these students, how many graduates were successful in their application to sit for the ACPV exam in 2020? NA-Exam postponed due to COVID-19

10. How many or what percent of these participants passed all 3 sections of the ACPV exam? NA

If the participant (s) did not pass the entire exam, how many passed 1 of 3 sections (1/3) of the exam? NA

If the participant (s) did not pass the entire exam, how many passed 2 of 3 sections (2/3) of the exam? NA

ACPV BOARD OF GOVERNOR'S ADDITIONAL COMMENTS:

1. Dr. Geoffrey Lossie, Residency Coordinator/Program Director, Clinical Assistant Professor, Department of Comparative Pathobiology, ADDL, Purdue University College of Veterinary Medicine, 406 S. University St., West Lafayette, IN 47907, 765- 496-3347; ACPV diplomate, glossie@purdue.edu

2. Dr. Nobuko Wakamatsu Utsuki, Clinical Associate Professor Department of Comparative Pathobiology, ADDL, Purdue University College of Veterinary Medicine, 406 S. University St., West Lafayette, IN 47907, 765- 494-7473; ACPV/ACVP diplomate, nutsuki@purdue.edu

3. Dr. Willie Reed, Dean, Purdue University College of Veterinary medicine, 625 Harrison Street West Lafayette IN, 47907 765-494-7608; ACPV and ACVP diplomate, wreed@purdue.edu

TRAINING PROGRAM REVIEW COMMITTEE ASSESSMENT
ACPV Standards for Approved Programs for Poultry Veterinarians
2019-2020

Program: **Purdue University**

Program Qualifications: The standards for ACPV poultry veterinary medicine training programs include:

Score	Item	Criteria
X	1	The training program must be formally affiliated with and administered by an accredited college or university
X	2	Missions, goals, objectives and outcomes must be clearly defined. There must be an effective system (assessment plan) for evaluating outcomes of the program relative to its missions, goals and objectives
X	3	There must be at least 3 resident or affiliated faculty members who are Diplomates of the American College of Poultry Veterinarians with credentials/experience in poultry medicine
X	4	Resident recruitment, admissions and selection criteria must be clearly defined and practiced.
X	5	A written curriculum statement must have structure and include course descriptions and field exposure. An outline of the educational objectives and learning activities is required.
X	6	The program must include a minimum of 12 months of formal education (training). Formal courses must be included in the curriculum for the program.
X	7	There must be demonstration of a significant link or relationship with the formal training that involves direct contact with the poultry industry as reflected by case load/accessions, companies served, industry problems solved and externship/internship arrangements with companies and ACPV poultry veterinarians
X	8	There must be evidence of adequate financial support, staff and facilities, including equipment consistent with internship/residency post-DVM education
X	9	Participants of each program are expected to be eligible to sit for the ACPV examination and successfully complete the requirements for ACPV Diplomate
X	10	As part of the training, students should be afforded the opportunity and encouraged to participate as presenters at scientific meetings as well as opportunity for continuing education while in the program

Score:

X – Program meets requirement

O – Program is deficient in requirement

To the American College of Poultry Veterinarians Board of Directors:

After much thought and deliberation, the ACPV Diplomates associated with the Poultry Diagnostic Medicine Residency program here at Purdue and I, feel that our program will benefit significantly if changed from a three-year program to a two year program. The program was initially established as a three-year program to allow residents to be eligible to sit for both the ACPV and ACVP boards. After review of the ACVP requirements after my hire, it has become abundantly clear that this is not feasible within a three-year program. We have thus decided our program is best suited to catering only to those with an interest in the ACPV boards and a future career specific to poultry.

While the elimination of an entire year of the residency is a large step, we are confident that our program will still fulfill all the requirements set forth by the ACPV, and provide significant benefits to future residents. Switching to a two-year program will condense the material into a time-frame that is more in line with other poultry specific residency programs in the US, and allow our residents to be released into the workforce in a timely manner with the same level of education. Courses, externships, and field experiences will be more condensed, thus better utilizing and respecting the student's time at our institution. There will be no major changes to the didactic content that the students will be required to take, and in fact, additional course work highly relevant to a diagnostic focused residency will be added. Additional time will be carved out at regular intervals for residents to interact, on a more frequent basis, with commercial producers via in-person and remote learning compared to how the program operated in the past.

One of the more prominent reasons for this proposed change is the quality of candidates that will hopefully be attracted to the program. Resident salary (regardless of the program) tends to be low, and candidates must make a careful financial decision regarding their future education, as veterinary students are burdened by vast amounts of debt post-graduation. Top level candidates looking to make a career for themselves in poultry, face the same financial burdens, and will likely preferentially apply to programs that will allow them to get into the workforce sooner. This change will make our program more attractive, and will allow those with more significant financial burdens to still consider applying to our program.

Overall, we feel this change will strongly benefit our program by respecting prospective student's time and finances while not compromising their educational experience. Reduction to a two-year program will also increase the number of residents completing the program, increasing the number of veterinarians going into this underserved field of veterinary medicine. Despite potential setbacks to the industry due to COVID-19, the industry continues to grow and veterinarians with special training in poultry are in high demand.

We look forward to receiving the board's decision on this change and the opportunity to strengthen our program.

Sincerely,

A handwritten signature in black ink that reads "Geoffrey A. Lossie". The signature is written in a cursive, flowing style with a long horizontal flourish at the end.

Geoffrey A. Lossie DVM, MS, DACPV

Annual ACPV Approved Training Program Review Form

Updated March 2011

Review Date:	7/15/20
---------------------	---------

1. Name of Training Program and Address:

Name of Program: Poultry Medicine and Diagnostics Residency Program
Address: University of California Davis
School of Veterinary Medicine
California Animal Health & Food Safety (CAHFS)– Turlock Branch
1550 N. Soderquist Rd, PO Box 1522;
Turlock CA 95381

2. Training Program mission, goals and objectives:

Mission: The CAHFS-Turlock Poultry Medicine residency is a two-year program that provides in-depth education and training to veterinarians in the field of avian diagnostics and poultry medicine.

Goals: There is a continuing need for well-trained avian disease specialists in teaching, diagnostics and research positions in private and public academic, industrial and service institutions. This program has a strong emphasis on poultry disease diagnostics in an AAVID accredited laboratory setting with a high case-load that consists primarily of commercial broilers, layers, turkeys and squab and a smaller percentage of backyard poultry, game bird and pet bird species. Resident diagnostic training is supplemented by attendance and contributions to weekly case conference, weekly poultry disease conference and monthly histopathology conference meetings. These meetings are attended by CAHFS faculty, system-wide and by members of UC Davis-Gallardo Poultry laboratory.

Objectives of the Residency:

1) To train residents to become competent diagnosticians in the delivery and administration of diagnostic services to the clients of the CAHFS laboratory. Within the first year of residency training, students are given the opportunity to rotate through the different CAHFS diagnostic departments, which includes bacteriology, immunology, histology and biotechnology.

CAHFS Turlock diagnostic submissions range from approximately 1 to 10 necropsy cases per day. The majority of necropsy submissions originate from commercial broilers, layers, turkeys and squab in California. Eight birds are typically submitted for each necropsy case. Residents are expected to work with case coordinators to conduct necropsies and generate appropriate follow-up diagnostic plans, which typically include bacteriology, histopathology, parasitology, virology and biotechnology. Other testing modalities such as immunohistochemistry, toxicology and feed analyses are performed for a small percentage of cases. Students work alongside the necropsy case coordinators for approximately four months before they are assigned as necropsy case coordinators, with each case being followed under the direct supervision of a CAHFS diagnostician and/or pathologist. Avian histopathology and pathology is another strength of the program and residents are trained in avian histopathology by CAHFS pathologists and avian diagnosticians. Residents spend approximately 1 hour per day, 5 times a week in didactic avian histopathology teaching sessions.

2) To provide residency training in poultry production, epidemiology, clinical management and prevention of economically important diseases in domestic avian species. Residents are given the opportunity to work with poultry field veterinarians (Dr Mark Bland; Cutler Associates International) to gain experience with varying poultry commercial production systems in California. CAHFS poultry residents visit approximately 30 commercial poultry premises per year.

Field visit objectives: Site visits to production facilities (broilers, layers, turkeys, waterfowl, and pigeons), inspection of management systems (environment, bird health, nutrition, husbandry, flock records), assessment of vaccination protocols, and disease investigation (field work and follow up lab diagnostics).

Dr Bland supplements the field visits with 7 one-on-one teaching sessions per year, with each session being approximately 4 hours.

Teaching session objectives: To present and review poultry case studies, vaccination programs and methods, management systems (broiler, commercial turkey, multiplier breeders, primary breeders, hatcheries, waterfowl, gamebirds, and pigeons), US poultry regulations, regulations regarding antibiotic use in commercial poultry and avian diseases.

Dr Mark Bland

Cutler Associates International

3562 Jomar Drive

Napa, CA 94558

Phone: 209-604-0381

Email: markbland@comcast.net

3) To provide applied research experience. The resident research project gives residents the opportunity to collaborate with other CAHFS faculty and UC Davis researchers (Gallardo Poultry Lab) in the design, implementation and reporting of research related to avian diseases, avian diagnostics and epidemiology. In the second year of the program, students must present their research findings at the annual UC Davis Veterinary Intern and Resident Research Symposium (VIRRS).

4) To provide limited experience in teaching clinical avian diagnostics and poultry medicine. Residents are given the opportunity to teach veterinary students in the VET438 Poultry Block (usually 2 sessions). In each year of the program, residents give oral presentations at the Western Poultry Disease Conference (WPDC) and the American Association of Avian Pathologists (AAAP) conference. Residents also attend and present at regional poultry meetings and continuing education (CE) workshops. The meetings residents usually attend are the California Poultry Federation (CPF) annual CE meeting, Squad Producers of California CE meeting and the California Egg Quality Assurance Program (CEQAP) annual CE meeting. Resident attendance varies from 1 to 3 times per year. Students are allotted \$3000.00 per year for conference attendance.

3. Affiliated University(s):

University of California - Davis

School of Veterinary Medicine

4. Primary Program Contact:

Simone Stoute, DVM, PhD, Dipl. ACPV
Associate Professor
University of California Davis,
Branch Chief CAHFS Turlock Branch
ststoute@ucdavis.edu
209-634-5837 (w)
209-678-5137 (c)
209-667-4261 (f)

5. When do your students graduate from the program? Circle all that apply

- May
- August- X
- December

5. ACPV Diplomate Faculty Members:

Name	Address	Email	Tel
Simone Stoute	PO BOX 1522, Turlock, CA	ststoute@ucdavis.edu	209-678-5137
H. L. Shivaprasad	18830 Road 112, Tulare, CA, 93274	hlshivaprasad@ucdavis.edu	559-6687543
Dr Rodrigo Gallardo	4009 VM3B Davis, CA 95616	ragallardo@ucdavis.edu	530-752-1078

6. Have there been any changes to the program since the previous year including program funding, staff, facilities support, etc? If so please explain.

Dr Carmen Jerry (DACVP) has been hired as a full time faculty avian pathologist and diagnostician at CAHFS Turlock. Dr Jerry assists with resident training and is in charge of the avian histopathology teaching.

7. Current Student Enrollment 2019-2020 (number of students and names):

This year’s total enrollment: 1

Student’s names:

Dr Ana da Silva

8. Students that Graduated last year (2019) (number of students and names):

One student, Dr Julia Blakey

8. How many students that graduated from your program submitted an application for the ACPV exam in 2019? One

9. Of these students, how many graduates were successful in their application to sit for the ACPV exam in 2019? One

10. How many or what percent of these participants passed all 3 sections of the ACPV exam? (1/1; 100%)

If the participant (s) did not pass the entire exam, how many passed 1 of 3 sections (1/3) of the exam?

N/A

If the participant (s) did not pass the entire exam, how many passed 2 of 3 sections (2/3) of the exam?

N/A

ACPV BOARD OF GOVERNOR'S ADDITIONAL COMMENTS:

TRAINING PROGRAM REVIEW COMMITTEE ASSESSMENT
ACPV Standards for Approved Programs for Poultry Veterinarians
2019

Program: Poultry Medicine UC Davis

Program Qualifications: The standards for ACPV poultry veterinary medicine training programs include:

Score	Item	Criteria
x	1	The training program must be formally affiliated with and administered by an accredited college or university
x	2	Missions, goals, objectives and outcomes must be clearly defined. There must be an effective system (assessment plan) for evaluating outcomes of the program relative to its missions, goals and objectives
x	3	There must be at least 3 resident or affiliated faculty members who are Diplomates of the American College of Poultry Veterinarians with credentials/experience in poultry medicine
x	4	Resident recruitment, admissions and selection criteria must be clearly defined and practiced.
x	5	A written curriculum statement must have structure and include course descriptions and field exposure. An outline of the educational objectives and learning activities is required.
x	6	The program must include a minimum of 12 months of formal education (training). Formal courses must be included in the curriculum for the program.
x	7	There must be demonstration of a significant link or relationship with the formal training that involves direct contact with the poultry industry as reflected by case load/accessions, companies served, industry problems solved and externship/internship arrangements with companies and ACPV poultry veterinarians
x	8	There must be evidence of adequate financial support, staff and facilities, including equipment consistent with internship/residency post-DVM education
x	9	Participants of each program are expected to be eligible to sit for the ACPV examination and successfully complete the requirements for ACPV Diplomate
x	10	As part of the training, students should be afforded the opportunity and encouraged to participate as presenters at scientific meetings as well as opportunity for continuing education while in the program

Score:

X – Program meets requirement

O – Program is deficient in requirement

**APPLICATION FOR REVIEW AND APPROVAL
TRAINING PROGRAM IN POULTRY VETERINARY MEDICINE
AMERICAN COLLEGE OF POULTRY VETERINARIANS
TRAINING PROGRAM REVIEW COMMITTEE**

I. ADMINISTRATION

“The training program must be formally affiliated with and administered by an accredited college or university.”

A. Please provide the name and address of your training program:

Combined PhD and Anatomic Pathology Residency Program with Poultry Emphasis
Poultry Diagnostic and Research Center
University of Georgia
Poultry Diagnostic and Research Center
953 College Station Road
Athens, GA 30602

B. Name and address of accredited college or university with which your training program is affiliated:

University of Georgia (UGA)
Department of Population Health
College of Veterinary Medicine
Athens, GA 30602-4875

University of Georgia
Department of Pathology
College of Veterinary Medicine
Athens, GA 30602

C. Name and address of accrediting organization:

Southern Association of Colleges and Schools
1866 Southern Lane
Decatur, GA 30033

American Veterinary Medical Association
1931 North Meacham Road, Suite 100
Schaumburg, IL 60173-4360

D. Please label (A, B, or C) and attach any supporting documents for A, B, or C to this page.

Supporting document attached.

II. MISSION, GOALS, OBJECTIVES, OUTCOMES

“Mission, goals, objectives, and outcomes must be clearly defined. There must be an effective system (assessment plan) for evaluating the outcomes of the program relative to its missions, goals, and objectives.”

A. Please define your training program with respect to:

1. Mission statement:

The mission of this program is to provide an educational opportunity for veterinarians to participate in a dual residency program of poultry and mammalian pathology that would qualify them for taking the respective board certification examinations.

2. Goals (list or describe):

- To educate veterinarians desiring additional training as poultry pathologists
- To train students in a manner that they will be successfully employed by entities that need poultry/mammalian pathologists.
- To provide the education and training to qualify to sit for the American College of Poultry Veterinarians Board Certification Exam.

3. Objectives (list or describe):

This is a 5-year program designed to educate a Veterinarian in veterinary anatomic pathology, veterinary diagnostics and avian virology. The goal is for the graduate to obtain a Ph.D. degree in veterinary pathology and to become boarded by the American College of Veterinary Pathologists and by the American College of Poultry Veterinarians. The long-term goal of this program is to develop a Global Health Network of professionals skilled in avian pathology, diagnostics and virology research. It is anticipated that upon graduation these individuals will be working for the poultry industry to provide a support network for global avian health.

The research component of this combined program will focus on avian viral disease problems. This could include but is not limited to applied research on current disease problems in the field such as avian influenza, infectious bronchitis virus, infectious laryngotracheitis virus and reovirus as well as longer-term basic research on those and other pathogens. The veterinary anatomic pathology portion of the program will have an emphasis on avian pathology and diagnostics. The student will be involved in day-to-day diagnostic pathology associated with cases coming into the PDRC and Athens Diagnostic laboratories.

We are well positioned to train the next generation of avian pathology/virology scholars because we have two boarded avian pathologists and two boarded clinicians on the Faculty in the Department of Population Health, Poultry Diagnostic and Research Center as well as six virologists providing strong avian virology research programs. In addition, the student will have

the opportunity to interact, collaborate and learn from Faculty in the Pathology Department as well as in the Department of Infectious Diseases.

B. Please describe your system (assessment plan) for evaluating the outcomes of the program relative to its mission, goals, and objectives.

Direct Student Assessments

Case-based learning is supplemented with several courses related to poultry medicine, pathology and diagnostics. These courses are taught at the Poultry Diagnostic and Research Center, Department of Population Health. All courses taken have at least 2 examinations (midterm and final exams). Students must maintain a 'B' average (3.0), and no grade below 'C' can appear on the Program of Study. Students have to write and defend a thesis, wherein they present the results of their research project. The training program requires intensive one-on-one instruction during working hours and extensive independent study in off hours. Students are expected to answer two poultry medicine questionnaires to assess their knowledge and the effectiveness of this training program. Course Input will also be sought from graduates on what are the most helpful aspects of the program and where improvements can be made. Responses will be compiled and reviewed by the entire faculty involved in the program and proper adjustments will be made to the program.

Learning Outcomes Assessment

Parameters to be measured will include success of students in current positions in the poultry industry and also the adequacy of preparation and success in their performance in the Poultry Medicine Specialty Board (American College of Poultry Veterinarians) and Veterinary Pathology Board (American College of Veterinary Pathologists) examinations.

Accreditation

The program will be required to acquire and maintain accreditation for graduates to be eligible to sit for the American College of Poultry Veterinarians and American College of Veterinary Pathologists board certification examinations (www.acpv.info and www.acvp.org). ACPV is the American Veterinary Medical Association's board certification for poultry veterinary specialists.

C. Please label (A or B) and attach any supporting documents for A or B to this page.

III. FACULTY

“There must be at least 3 resident or affiliated faculty members who are Diplomates of the American College of Poultry Veterinarians. The faculty must be capable of achieving the mission, goals, and objectives of the program.”

A. Please list the names, addresses and telephone numbers of resident faculty members who participate in your training program, and who are Diplomates of the American College of Poultry Veterinarians:

Faculty at Poultry Diagnostic and Research Center (PDRC)
953 College Station Road
Athens, GA 30602
706-542-1904

Dr. Susan Williams, BS, DVM, PhD, DACPV
Dr. Monique Franca, DVM, PhD, DACPV, DACVP
Dr. Karen Grogan, DVM, MAM, DACPV
Dr. Jenny Nicholds, DVM, MAM, DACPV

B. Please list the names, addresses, and telephone numbers of affiliated faculty members who participate in your training program, and who are Diplomates of the American College of Poultry Veterinarians:

Dr. Hector Cervantes (Adjunct)
1031 Westchester CT
Watkinsville, GA – 30677-2171
(706) 338-1353

Dr. Chuck Hofacre (Emeritus)
Southern Poultry Research Group
1061 Hale Rd
Watkinsville, GA 30677
(706) 247 -4054

Dr. Guillermo Zavala (Adjunct)
Avian Health International, LLC
3446 Winder Highway
Suite M #135
Flowery Branch, GA 30542
(770) 540-5327

Dr. Ivan Alvarado (Adjunct)
Merck Animal Health
Athens, GA
706-542-1904

IV. RESOURCES AND FACILITIES

“The program must be housed in a physical facility that is conducive to learning. There must be evidence of adequate financial support of faculty / staff, facilities, and equipment.”

A. Please provide the address of the physical facility that houses the training program:

Poultry Diagnostic and Research Center
College of Veterinary Medicine, Department of Population Health
University of Georgia
953 College Station Road
Athens, GA 30602

Department of Pathology
College of Veterinary Medicine
University of Georgia
501 D. W. Brooks Ave
Athens, GA 30602

B. Briefly, describe this facility:

Both departments are located on the campus of the University of Georgia. PDRC offers classroom spaces along with office spaces, and diagnostic pathology facilities and equipment that include a necropsy floor and bright field microscopes. Animal facilities are present for any research projects that may be included to enrich the student’s understanding of planning and carrying out applied research. The Pathology department has similar spaces with a mammalian necropsy floor and use of the Athens Diagnostic services for laboratory support for necropsy cases.

C. Is this facility conducive to learning?

Yes, both facilities are part of large academic institution and are conducive to learning.

D. Please provide evidence (descriptive summary is sufficient) of adequate financial support of your faculty, facilities, and equipment:

The program will include many present faculty members from the Department of Pathology and Poultry Diagnostic and Research Center at the UGA. PDRC has 15 faculty members, 3 Poultry Medicine residents and numerous graduate students that conduct research on poultry diseases of importance to the industry. The Department of Pathology has 9 residents and a diverse faculty, including 20 ACVP diplomates, with

expertise in domestic, avian, aquatic, exotic, wildlife, toxicologic and laboratory animal pathology. The starting salary for the student is \$37,900 per year plus tuition support and travel support to regional and national meetings, including training courses. Faculty, facilities and equipment needed for this training program have adequate financial support. No additional resources will be needed.

E. Please label (A, B, C, or D) and attach any supporting documents for A, B, C, or D to this page.

Supporting document attached – letter written by Dr. Jackwood.

V. RESIDENTS / STUDENTS

“Resident recruitment, admissions, and selection criteria must be clearly defined and practiced.”

A. Please define your resident / student recruitment process:

The Combined PhD and Anatomic Pathology Residency Program with Poultry Emphasis residency program is currently advertised on the American College of Veterinary Pathologists website. We will also advertise this program on the American Association of Avian Pathologists website. We expect to accept 1 student into the combined program every 5 years. In the year leading up to accepting a student, information regarding the combined program will be made available to interested students at national meetings for both poultry and mammalian pathologists. A detailed plan for student recruitment has been developed jointly by the faculty at the Poultry Diagnostic and Research Center and Department of Pathology.

B. Please define your admissions criteria or process:

Applicants of this program must be United States citizens or be eligible for lawful admission to the United States, and must provide evidence of academic strength and interest in anatomic pathology, research, and poultry medicine. Top candidates may be asked to participate in phone and/or in-person interviews.

Because this is a combined program with the UGA Pathology program, the student must apply to the UGA Pathology residency program and UGA Graduate school and be accepted by faculty members at the Department of Pathology and Poultry Diagnostic and Research Center. The student must submit a letter of intent explaining/defining their interest in both mammalian and poultry pathology. They must be able to document completion of a Doctorate of Veterinary Medicine or equivalent by the time they start the program. Grades from Veterinary School are part of the selection process along with 3 letters of recommendation. GRE scores and if necessary TOEFL scores will also be required. The University of Georgia will accept satisfactory scores on either the TOEFL or IELTS language proficiency examinations for admission to graduate programs. Test scores must be submitted directly from the testing agency.

C. Please define your selection criteria:

Students should exceed the academic requirements established by the Graduate School. We actively seek students with strong GPA (above 3.0) and GRE (above 310) however interest and experience in anatomic pathology, research, and poultry medicine are also very important. Letters of recommendation will be strongly utilized to select qualified students.

The department of Pathology receives all the applications and will notify pathologists at the PDRC if there is an applicant that is interested in this program. All faculty members in Pathology and three faculty members at the Poultry Diagnostic and Research Center, Department of Population Health review the applicants and individually ranks them. All rankings are then compiled and scores are totaled to determine who the top candidates are before contacting their references. From there, the faculty determines which applicant to offer the residency position.

D. Do you practice the criteria and processes defined in A, B, and C above?

Yes, the standards must be met in order for students to be accepted to the program.

E. Please label (A, B, C, or D) and attach any supporting documents for A, B, C, or D to this page.

Supporting document for A and B attached.

Additional information for selection criteria can be found at:
<https://vet.uga.edu/pathology/graduate-program>

VI. CURRICULUM

“A written curriculum statement must have structure. An outline of the educational objectives and learning activities is required. There must be at least 12 months of formal training. Courses must be clearly defined with measurable outcomes. There must also be a significant link between the formal training and training that involves direct contact with the poultry industry (numbers of diagnostic case accessions, companies served, industry problems solved, internship / externship arrangements among companies and ACPV Diplomate poultry veterinarians). The program must facilitate the student’s scholarly development.”

A. Please outline the educational objectives of, and learning activities in your training program:

1. Educational objectives:

- Train students in the following subject matters related to poultry medicine: Avian Necropsy, Avian Histopathology, Avian Virology, Avian Diseases, Commercial Poultry Production, Poultry Husbandry, Breeder Husbandry and Health, Hatchery Practices, Poultry Genetics and Nutrition, Management of Disease, Preventive Medicine, Poultry Food Safety Epidemiology, Poultry and Public Health Issues Impacting International Trade, International Trade Issues, Economics of Poultry Production, Poultry Disease Prevention Programs, Poultry Routine Health Surveys, Production Economics and Financial Analysis.
- Completion of research project and thesis in poultry related topic relevant to students employment or interest area, ideally leading to publication in peer-review journal.
- Presentation of completed research at regional, national or international poultry health or veterinary pathology conference.

2. Learning activities:

Combined PhD and Anatomic Pathology Residency Program with Poultry Emphasis Requirements:

Residency training duty requirement:

- 20 weeks of PDRC necropsy duty (includes histopathology) - POPH Necropsy Practicum courses 6141, 6142 and 6143.
- 15 weeks of PDRC avian histopathology duty. POPH Histopathology Practicum courses 7050, 7051 and 7052.
- 15 weeks Athens Diagnostic Lab necropsy duty. VPAT courses 7010, 7011, 7012

- 12 combined weeks of Pathology Department biopsy/mail-in cases. VPAT courses 7020, 7021, 7022
- 7 weeks zoo/exotics/avian pathology service (ZEAPS). VPAT courses 7020, 7021, 7022
- Weekend Athens Diagnostic Lab necropsy duty

Coursework required:

- Avian Pathology course VPAT 8220
- Poultry Diseases course POPH 6050 (would not take it for credit)
- Poultry Disease and Management Interaction POPH 6160L-summer(would not take it for credit)
- Clinical Avian Medicine POPH 6100 (after taking POPH 5250 and POPH 6160L)-spring 2017
- Avian Virus Diseases POPH 8050/8050L (required for PhD)
- Microscopic Pathology course VPAT 8100
- Veterinary Pathology course VPAT 8110
- Oncology course VPAT 8130
- Cellular Pathology course VPAT 8020
- Biochemistry (required for PhD)
- Statistics (required for PhD)
- 3 week senior clinical pathology rotation
- Weekly PDRC rounds POPH 6121 -1 presentation/semester required
- Weekly Avian Medicine seminar POPH 8150
- General Pathology VPAT 8001 (every semester)
- Gross Pathology Rounds VPAT 8002 (every semester)

- Ophthalmopathology Rounds VPAT 8003 (one semester)
- Dermatopathology Rounds VPAT 8004 (one semester)
- Responsible Conduct of Research GRSC8550 (one semester)
- Attend all histopathology seminars (register for VPAT 8000 Pathology Rounds every fall and spring)
- Attend weekly Athens Diagnostic Lab necropsy rounds
- Attend weekly resident histopathology rounds and journal club in pathology department
- Attend all pathology department research seminars

Teaching requirement:

- One semester teaching General Pathology
- One semester teaching Systemic Pathology (optional)
- VPAT 5400- 1) One gross review per semester; 2) necropsy demonstration first day of rotation if on duty; 3) attend student's case presentations third week if on duty

Participation in conferences requirement:

- Two diagnostic case presentations at the Annual SouthEastern Veterinary Pathology Conference
- Attend Southern Conference on Avian Diseases (SCAD) at the International Poultry Expo or GVMA every year (should present at least once – talk or poster)
- Attend the American Association of Avian Pathologists (AAAP), the American College of Veterinary Pathologists (ACVP), or the American Association of Veterinary Laboratory Diagnosticians (AAVLD) meetings (at least 1 presentation in 1 of these meetings per year). Should attend and present at least once at the AAAP (talk or poster)
- One publication per year based on diagnostic material
- At least 3 publications on poultry diseases

B. How much time must the resident / student spend in your program in order to complete all of the requirements of the program?

Total program duration is five years. Approximately three total years of this training is required for students to take the national certifying examinations.

C. Where are the training program course contents clearly defined?

The training program course contents are clearly defined in a document posted in a shared folder within the UGA network.

D. Do the program courses have measurable outcomes?

Most program courses have at least 2 assessments, the midterm and final exams.

E. What are the possible outcomes, and how / where are they recorded?

For each course during the program, students will receive grades that are recorded into an online system, the eLearning Commons system (eLC). The student will have access to all grades. As a UGA program, the Combined PhD and Anatomic Pathology Residency Program with Poultry Emphasis will be subject to all UGA policies and requirements for evaluation and assessment. This includes a comprehensive 7-year review as part of the review of the Department of Population Health as well as ongoing assessment and reporting on student learning outcomes as required for all graduate programs at UGA. The *outcome that will be a measure of the success of our curriculum* will be how prepared our students will be when they take the rigorous ACPV and ACVP Board examinations. The primary assessment measure for the program will be student performance on both ACPV and ACVP Board examinations which will provide direct assessment data on each area for each student taking the examination, as well as comparative data with the performance of peers. The UGA faculty will monitor this data carefully and adjust the curriculum as needed to improve student performance. Input will be sought from these graduates on what are the most helpful aspects of the program and where improvements can be made. Responses will be compiled and reviewed by faculty at the Department of Pathology and Poultry Diagnostic and Research Center at UGA and appropriate adjustments will be made to the program.

F. Describe what link(s) exist between your formal training program, and training that involves direct contact with the poultry industry.

The student will provide diagnostic pathology service duty to the national and international poultry industry. Additionally, the student will participate in field trips organized by the clinicians of the Poultry Diagnostic and Research Center.

G. How does your program facilitate the student's scholarly development?

The students, upon acceptance into the program, will be assigned to a major professor. This advisor will assist the student in any issues relating to diagnostic pathology duty, course work, and PhD research project for each semester and any problems they may encounter throughout their program. The student will also be required to form a Committee for the PhD part of this program. Additionally, a faculty member is responsible for each course and additional faculty members may be teaching specific areas within each course where they have greatest expertise.

The students are required to present their research at national veterinary pathology and poultry health meetings. They will also be required to publish 3 manuscripts on poultry diseases.

H. Please label (A, B, C, D, E, F, or G) and attach any supporting documents for A, B, C, D, E, F, or G to this page.

VII. CONTINUING EDUCATION

“As part of their training for future professional education, students should be afforded the opportunity and be encouraged to participate as presenters and recipients of continuing education.”

A. Please list or describe exactly what opportunities students in your training program have to present and receive continuing education while participating in the training program:

Upon completion of their research, students are required to submit their work for presentation at regional, national or international poultry health and veterinary pathology conferences. In theory, ambitious students could have 4-6 presentations discussing their work in advance of completion of the program.

Additionally, students will participate in weekly clinical avian medicine rounds held at the PDRC and will be required to make 1 case presentation per semester.

B. Please label (A) and attach any supporting documents for A this page.

TRAINING PROGRAM REVIEW COMMITTEE ASSESSMENT
ACPV Standards for Approved Programs for Poultry Veterinarians
2019

Program: **University of Georgia Combined Pathology/Poultry Residency**

Program Qualifications: The standards for ACPV poultry veterinary medicine training programs include:

Score	Item	Criteria
X	1	The training program must be formally affiliated with and administered by an accredited college or university
X	2	Missions, goals, objectives and outcomes must be clearly defined. There must be an effective system (assessment plan) for evaluating outcomes of the program relative to its missions, goals and objectives
X	3	There must be at least 3 resident or affiliated faculty members who are Diplomates of the American College of Poultry Veterinarians with credentials/experience in poultry medicine
X	4	Resident recruitment, admissions and selection criteria must be clearly defined and practiced.
X	5	A written curriculum statement must have structure and include course descriptions and field exposure. An outline of the educational objectives and learning activities is required.
X	6	The program must include a minimum of 12 months of formal education (training). Formal courses must be included in the curriculum for the program.
X	7	There must be demonstration of a significant link or relationship with the formal training that involves direct contact with the poultry industry as reflected by case load/accessions, companies served, industry problems solved and externship/internship arrangements with companies and ACPV poultry veterinarians
X	8	There must be evidence of adequate financial support, staff and facilities, including equipment consistent with internship/residency post-DVM education
X	9	Participants of each program are expected to be eligible to sit for the ACPV examination and successfully complete the requirements for ACPV Diplomate
X	10	As part of the training, students should be afforded the opportunity and encouraged to participate as presenters at scientific meetings as well as opportunity for continuing education while in the program

Score:

X – Program meets requirement

O – Program is deficient in requirement