



# The University of Georgia

University Council  
Athens, Georgia 30602

March 13, 2015

## UNIVERSITY CURRICULUM COMMITTEE – 2014-2015

Dr. William K. Vencill, Chair

Agricultural and Environmental Sciences - Dr. Robert B. Beckstead

Arts and Sciences - Dr. Roxanne Eberle (Arts)

Dr. Rodney Mauricio (Sciences)

Business - Dr. Myra L. Moore

Ecology - Dr. James W. Porter

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Engineering - Dr. Sidney Thompson

Environment and Design - Mr. David Spooner

Family and Consumer Sciences - Dr. Silvia Giraud

Forestry and Natural Resources - Dr. John C. Maerz

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Pharmacy - Dr. Cory Momany

Public and International Affairs - Dr. Robert Grafstein

Public Health - Dr. Katie D. Hein

Social Work - Dr. Kristina Jaskyte

Veterinary Medicine - Dr. Scott A. Brown

Graduate School - Dr. Timothy L. Foutz

Ex-Officio - Provost Pamela S. Whitten

Undergraduate Student Representative - Mr. William Heaton

Graduate Student Representative - Ms. Lauren E. Mullenbach

Dear Colleagues:

The attached proposal to continue offering the existing Graduate Certificate in Avian Health (Online) without collaboration with the University of Melbourne will be an agenda item for the March 20, 2015, Full University Curriculum Committee meeting.

Sincerely,

William K. Vencill, Chair  
University Curriculum Committee

cc: Provost Pamela S. Whitten  
Dr. Rahul Shrivastav

**The University System of Georgia**  
**CERTIFICATE CHANGE PROPOSAL**

Institution: The University of Georgia Date: February 6, 2015

School/College/Division/Institute: College of Veterinary Medicine

Department: Population Health

Name of Certificate: Graduate Certificate in Avian Health

Start Date: August, 2015

Contact: Dr. Charles L. Hofacre, Dept. of Population Health, 706-542-1904, [chofacre@uga.edu](mailto:chofacre@uga.edu)

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# **Proposal for Change in an Existing Certificate**

## **Certificate in Avian Health Department of Population Health College of Veterinary Medicine The University of Georgia**

### **1. Certificate Change Description**

This proposal seeks approval to continue to award the Certificate in Avian Health 100% online without the University of Melbourne. Since the certificate approval on February 2, 2012 (Appendix 1), it has been co-administered by the Department of Population Health in the College of Veterinary Medicine and the Faculty of Veterinary Science, University of Melbourne, Australia. The collaborative agreement between institutions expires March 25, 2015. The University of Melbourne has formally notified the University of Georgia of non-renewal of our collaborative agreement and is willing to give UGA jointly created teaching materials to continue the certificate. Under the joint agreement, the admissions process presented obstacles which made it cumbersome and expensive for students. Currently, students are required to apply to both universities and meet separate admission requirements for each university, which has deterred some potential applicants.

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

No changes are necessary to UGA admissions requirements, program of study, or curriculum. UGA faculty and facilities are in place to provide all instructional support. Dr. Charles Hofacre is working with UGA Online Learning to facilitate transfer of course materials, which currently reside on Melbourne's servers, to UGA's eLearning Commons. UGA Online branding is already in progress.

All students will continue to be responsible for making their own financial arrangements. However, we have poultry production companies as well as pharmaceutical and vaccine companies who have or will finance the cost of educating their own veterinary employees or their customers' veterinarians. UGA Online Learning is involved with target marketing of the certificate to these companies.

### **2. Certificate Objectives**

No changes will be made to the certificate objectives, with the exception of delivery without the University of Melbourne.

### **3. Justification and Need for the Certificate**

#### ***Societal Needs: The global poultry industry, future growth trends and needs for veterinary postgraduate education***

Globally, the poultry industry continues to be the fastest growing of all of the animal-based agribusinesses, and consumption of chicken meat per head now exceeds 10kg per person per year world-wide. In economically-developed countries, this level of consumption is far higher, e.g., poultry meat intake per year in 2015 will average some 35kg per person in Australia and up to 50kg in the USA. Poultry products are therefore a very significant source of intake of high-quality (animal) protein in our diets.

World-wide, of the total of some 87 million tons (MT) of poultry meat projected to be produced in 2015, the industries of the economically developed and the developing countries produce approximately equal amounts. Now, however, the poultry industries of those economically still-developing countries are producing some 60% of the world total, approximately 100.6MT, while by 2030, poultry production from developing countries will double that of the developed countries (FAO statistics, *Poultry International Jan 2003*). Increased international movements and trade in poultry products must therefore be an inevitable development.

The Certificate in Avian Health will provide poultry veterinarians operating in these countries access to some level of knowledge and training necessary. This certificate will be more accessible due to the fact that students no longer will be required to apply to two institutions in different countries. UGA can continue to offer major opportunities to avian veterinarians for systematic professional development, while also increasing the quantity and the quality, i.e., food safety, of poultry products being consumed in many countries.

Two students just finished the requirements for the joint certificate. Three additional students have been accepted for fall 2015 admission. In addition, two additional applicants are currently taking required testing to apply for fall 2015 admission. These enrollment numbers indicate UGA can grow the certificate without Melbourne's involvement. Since the inception of the certificate, application processes for two universities in different countries was a concern for many prospective students.

Because the non-renewal of contract was amiable, we foresee no negative effects from the University of Georgia offering the certificate without the University of Melbourne.

### **4. Curriculum**

No changes to curriculum. All students enrolled in the UGA home-based certificate under the joint agreement took all UGA courses taught by UGA faculty. From the time the joint agreement was implemented and the certificate was first offered, UGA faculty have taught the entire certificate to students enrolled through UGA. UGA will be able to continue offering the entire certificate after the joint agreement has ended.

## Curriculum for the Certificate in Avian Health

### **Semester 1: Poultry Health, Nutrition, Genetics and Husbandry Practices**

- POPH 7210E 3 credits  
Course Title: Breeder Husbandry and Health  
Description: Understanding the production planning flow of broiler, turkey and layer breeders as this impacts on many husbandry related health issues.  
Topics include: Chick placement, brooding and rearing, breeders and fertile eggs, layer hens and table eggs, pullet and hen mortality surveys and how to interpret results.
- POPH 7220E 3 credits  
Course Title: Incubation Theory, Hatchery Practices, and Poultry Health  
Description: Egg handling and incubation dramatically affect the health and vitality of chicks and poultry and understanding proper husbandry will allow the veterinarian to differentiate diseases from husbandry malpractice.  
Topics include: Egg collection, pre-incubation, on-farm and hatchery egg coolers, setting, transfer, in ovo vaccination, hatch and pull of chicks/poults.
- POPH 7230E 3 credits  
Course Title: Poultry Genetics and Nutrition  
Description: Poultry breed selection and breed crosses require specialized nutrition and husbandry.  
Topics include: Mendelian breed selection procedures for leghorn breeds, broiler breeds and turkey breeds and the specific mineral, amino acid and vitamins requirements to maximize the immune system and health of these birds.
- POPH 7414E 3 credits  
Course Title: Poultry Practicum I – Poultry Husbandry  
Description: The student will apply topics of this semester to their country's poultry husbandry practices.  
Topics include: Practical application of breeder husbandry, incubation, genetics and nutrition to be included in final thesis.

### **Semester 2: Poultry Disease Pathology**

- POPH 7310E 9 credits  
Course Title: Poultry Pathology  
Description: Develop a systematic approach to poultry viral disease investigations, appreciative pathology in light of normal tissue appearance, development of abilities to systematically construct practical differential diagnoses for resolving poultry viral disease problems.  
Topics include: Newcastle Disease, Avian Influenza, Infectious Bronchitis Virus, Infectious Bursal Disease Virus, Avian Reovirus, Turkey Coronavirus, and others.
- POPH 7418E 3 credits  
Course Title: Poultry Practicum II – Management of Disease  
Description: Develop a systematic approach to poultry bacterial disease investigations, appreciative pathology in light of normal tissue appearance, development of abilities to systematically construct practical differential diagnoses for resolving poultry bacterial disease problems.  
Topics include: Fowl Cholera, Erysipelas, Pullorum, E. coli, Airsacculitis, and others

## 5. Inventory of UGA Faculty Directly Involved in the Certificate in Avian Health

<b>Name</b>	<b>Title</b>	<b>Area of Work</b>
Steve Collett, DVM, MS	Clinical Assistant Professor	Clinical avian medicine
Karen Grogan, DVM, MAM	Part-time Instructor	Clinical avian medicine
Monique S. França, DVM, PhD	Assistant Professor	Avian pathology
Charles L. Hofacre, DVM, MAM, PhD	Professor and Director of Clinical Services	Clinical avian medicine, food safety and bacteriology
C. Stephen Roney, DVM, MAM	Clinical Associate Professor	Clinical avian medicine
Holly Sellers, MS, PhD	Professor	Clinical avian medicine, avian virology

## 6. Facilities

The Poultry Diagnostic and Research Center on College Station Road in Athens will continue to house this certificate's faculty members. Course material is being transferred from the University of Melbourne's servers to UGA's eLearning Commons.

## 7. Budget

There will be no additional cost to offer the certificate without the University of Melbourne.

## 8. Certificate Inscription Change

The certificate will be awarded from the University of Georgia only.

## Appendix Index

**Appendix 1:** Approved Graduate Certificate in Avian Health

**Appendix 2:** Termination letter from The University of Melbourne

# Appendix 1



**University Council Recommendations  
The University of Georgia**

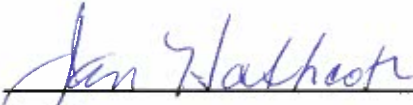
**To:** President Michael F. Adams

**Re:** Document Number: 2012.02.16.03

**Issue:** A proposal from the Curriculum Committee to offer a new Graduate Certificate in Avian Health.


**Discussion:** None.

**Action:** The vote was called and the proposal was approved.

Submitted by:   
Jan Hathcote, Secretary

2/21/12  
Date

- Approved
- Reconsider
- Vetoed (see attached explanation)
- Received

  
Michael F. Adams, President

2-22-12  
Date

Attachment



# The University of Georgia

University Council  
Athens, Georgia 30602

January 11, 2012

## UNIVERSITY CURRICULUM COMMITTEE – 2011-2012

Mr. David E. Shipley, Chair

Agricultural and Environmental Sciences - Dr. T. Dean Pringle

Arts and Sciences - Dr. Roxanne Eberle (Arts)

Dr. Rodney Mauricio (Sciences)

Business - Dr. William D. Lastrapes

Ecology - Dr. James W. Porter

Education - Dr. William G. Wraga

Environment and Design - Mr. David Spooner

Family and Consumer Sciences - Dr. Jan M. Hathcote

Forestry and Natural Resources - Dr. Sarah F. Covert

Journalism and Mass Communication - Dr. Alison F. Alexander

Law – No representative

Pharmacy - Dr. Keith N. Herist

Public and International Affairs - Dr. Jerome S. Legge

Public Health – Dr. Marsha C. Black

Social Work - Dr. Stacey R. Kolomer

Veterinary Medicine - Dr. K. Paige Carmichael

Graduate School - Dr. Tracie E. Costantino

Undergraduate Student Representative – Mr. Marshall Mosher

Graduate Student Representative – Mr. Zachary Watne

Dear Colleagues:

The attached proposal to offer a Graduate Certificate in Avian Health will be an agenda item for the January 18, 2012, Full University Curriculum Committee meeting.

Sincerely,

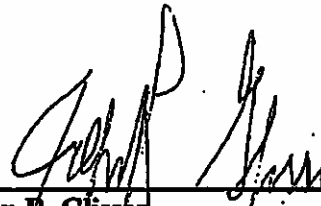
David E. Shipley, Chair  
University Curriculum Committee

cc: Provost Jere W. Morehead  
Dr. Laura D. Jolly

**Certificate in Avian Health**

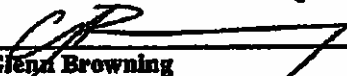
**January 10, 2011**

**The University of Georgia  
College of Veterinary Medicine  
Department of Population Health  
Graduate Certificate  
Proposed starting date for program  
March, 2012**



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**John R. Glisson  
Department Head, Population Health  
College of Veterinary Medicine  
The University of Georgia**



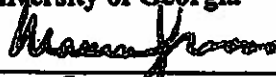
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**Glenn Browning  
Associate Dean, Research and Research Training  
College of Veterinary Medicine  
The University of Melbourne**



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**Sheila Allen  
Dean  
College of Veterinary Medicine  
The University of Georgia**



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**Maureen Grasso  
Dean  
Graduate School  
The University of Georgia**

## **Certificate in Avian Health On-line**

**A proposal is being made for a certification in Avian Health and Medicine in conjunction with the University of Melbourne, Australia. The certificate will be awarded to those veterinarians who complete 2 semesters of an on-line course in poultry health and husbandry.**

### **Abstract**

The certificate will be co-administered by the Department of Population Health in the College of Veterinary Medicine of The University of Georgia and the Faculty of Veterinary Science, University of Melbourne, Australia.

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 than would be available at either The University of Georgia or the University of Melbourne. The University of Georgia is already the national leader in educating veterinarians in poultry health and medicine and this program in cooperation with the University of Melbourne would afford The University of Georgia the opportunity to become a preeminent leader in poultry health internationally. The students matriculating in this certificate program will be educated by on-line lectures, assigned readings, on-line discussions, preparation of assignments for assessment and feedback by tutors, and the completing of on-line quizzes and examinations from a multidisciplinary group of faculty from both universities.

The projected starting date for the Certificate in Avian Health and Medicine is March, 2012 with awarding the first certificate in December, 2012. It is projected that there will be a maximum of 15 students accepted per year who move through the program as a cohort. The increase in poultry meat consumption by the world has been increasing at a significant rate; therefore, it is expected this program will continue into the foreseeable future. Since these students will obtain all instructional material, instructor interactions and examination via online, there will be no physical address for instruction other than the location of the faculty at The University of Georgia (953 College Station Road, Athens, GA 30602) and the University of Melbourne in Melbourne, Australia (University of Melbourne, 250 Princes Highway, Werribee, Victoria, Australia 3030). All of the students who enroll in the Master of Avian Health and Medicine (MAHM) will receive the certificate. The University of Melbourne (UoM) is already awarding the certificate with UGA teaching; this will allow UGA to be able to match the UoM with a certificate with both universities.

## Criteria for Program

### 1. The purposes and educational objectives of the program.

a) *Provide knowledge to poultry veterinarians worldwide.* The poultry industry is growing very rapidly in many newly emerging countries like Brazil and China. There is a tremendous demand for highly skilled veterinarians as these industries grow. This program will enable the veterinarians in these countries to remain employed in their local industry and become more knowledgeable and valuable to their employers without physically being away in the U.S. The online delivery allows UGA to provide the students training from a multidisciplinary group of faculty including veterinarians, microbiologists, poultry husbandry specialists and agriculture engineers. *This is not only a unique opportunity for the students to remain employed but also for the faculty of UGA to teach more students in this highly specialized field than would be possible in an on-campus classroom experience.*

These students will be given a very strong foundation in the husbandry aspects of commercial poultry as it impacts on their health, as well as the basics in diagnostic work-up of the major poultry diseases. Poultry veterinary medicine has become very specialized and we know of no college of veterinary medicine that provides this training. The 2 semesters of classes for this certificate will give students a very strong foundation to assist the poultry farmers who are their clients in their home countries. The University of Georgia, as a Land Grant University, has a mission for extension or service to the agricultural community. This certificate readily fulfills this mission of transferring knowledge from the university directly to poultry veterinarians who assist farmers.

b) **Interdisciplinary Program in Agriculture.** This certificate involves instructors from The University of Georgia's College of Agriculture, Department of Poultry Science, and also the Department of Population Health, of the College of Veterinary Medicine. The certificate has already begun at the University of Melbourne with 23 students having already received a certificate from UoM with The University of Georgia, Department of Population Health assisting in teaching. It is the goal of the faculty of the Department of Population Health at The University of Georgia to have the first students awarded the certificate December 2012 with the joint certificate. Over the next 5 years, we anticipate 10-15 students per year receiving their certificate.

### 2. Need for this Program

#### *a. Assessment of Need.*

Globally, the poultry industry continues to be the fastest growing of all of the animal-based agribusinesses, and consumption of chicken meat per head now exceeds 10kg per person per year world-wide. In economically-developed countries, this level of consumption is far higher, e.g. poultry meat intake per year in 2011 will average some 35kg per person in Australia and up to 50kg in the USA. Poultry products are therefore a very significant source of intake of high quality (animal) protein in our diets.

***b. Program Initiation Information.***

1. March, 2012 full program initiation with UGA.
2. First certificates awarded December, 2012.
3. It is expected 10-15 students to receive certificates annually.

**3. Evidence of Demand**

***a. Demand for Poultry Veterinary Specialists.*** Meeting the growing demand for poultry meat and eggs will require more veterinarians to have training in other highly specialized fields of veterinary medicine. A survey we performed resulted in an estimate of an additional 1000 poultry veterinarians needed over the next 10 years. Therefore, we anticipate the annual enrollment for this certificate program to be 10-15 students.

***b. Minority Students.*** These students will be from all over the world.. Currently students are enrolled at UoM in the certificate program from Australia, China, Kenya, Portugal, Russia, England, U.S., Canada – both male and female students.

#### **4. Curriculum**

*a.* Admission to the certification program will require application to UGA and will meet the requirements for admission to the UGA Graduate School.

*b.* All courses in the certificate are already in Course Approval Process Automation and are taught to students enrolled in the on-line Master of Avian Health and Medicine:

##### **Semester 1: Poultry Health, Nutrition, Genetics and Husbandry Practices**

**POPH\* 7210E 3 credits**

**Course Title: Breeder Husbandry and Health**

**POPH 7220E 3 credits**

**Course Title: Hatchery Practices**

**POPH 7230E 3 credits**

**Course Title: Poultry Genetics and Nutrition**

**POPH 7414L 3 credits**

**Course Title: Poultry Practicum I – Poultry Husbandry**

##### **Semester 2: Poultry Disease Pathology**

**POPH 7310E 9 credits**

**Course Title: Poultry Pathology**

**POPH 7418L 3 credits**

**Course Title: Poultry Practicum II – Management of Disease**

\*POPH = The department of Population Health, College of Veterinary Medicine, The University of Georgia

*c.* Since the program is 100% on-line, the lectures are delivered by written notes, PowerPoint presentations with notes, or recorded lecturers' voice and voice discussions from classes held at UGA. Also there are interactive case discussions with the classes and faculty. The laboratory class each semester is performed by the student in their country under supervision of a poultry veterinarian that the student's advisor arranges.

#### **5. Faculty Resources**

The roster of the faculty from The University of Georgia and the University of Melbourne can be found in Appendix 1. All of the faculty at The University of Georgia are currently approved to teach in graduate programs (UGA Graduate Faculty). All faculty approved to be Graduate Faculty by The University of Georgia have demonstrated adequate ability for scholarship and research capability to properly mentor graduate students. The faculty at the University of Melbourne who will teach in the program will be approved as adjunct faculty at The University of Georgia.

## **6. Library and Learning Resources**

All of the required readings for this course will be provided online to the students enrolled in the course. Permission/copyright release has or will be obtained for all materials.

The University of Georgia and the University of Melbourne both have very impressive access to electronic resources, including full text journal articles. No new library support will be needed to implement the program.

All students are given an on-line autotutorial at the start of the first semester on use of the library facilities at their home institution. Additionally for The University of Georgia, there is the Galileo program (<http://andromeda.galib.uga.edu/scholar/uga/subjects/>) and at the University of Melbourne, it is called Student Portal. When a student enrolls, they are given access to the "Student Portal", a server which is a repository for student resources. Students link to the course notes from the Student Portal. The library websites are also accessed through the Portal (<https://sso.portal.unimelb.edu.au/UnimelbSSO/login.jsp?>) and Help Documentation exists to explain how to access the library catalogue and the online resources such as journals. In addition, we supply basic help documentation to the students at the start of their course on how to access the library and do journal searches. These tutorial programs are available to the students throughout the program at any time. Also, the on-line access to the libraries for both universities have open access to the students 24 hours a day. Additionally, since the students are enrolled at both institutions, they have access to both library systems.

The electronic resources they will need to access most frequently for this specific discipline will be the journals *Avian Diseases* and *Avian Pathology*, *The Poultry Science Journal*, *The Applied Poultry Science Journal*, and the *World Poultry Science Journal*. All of these journals are available on-line through both UGA and UoM libraries.

## **7. Physical Resources**

There will be no need for any additional bricks and mortar facilities since this course is 100% on-line. The University of Melbourne will provide necessary hardware and electronic (software) program delivery system through a proprietary program called Quokka.



## 8. Expenses for Program

The faculty cost for the certificate is already budgeted as below for the Master of Avian Health and Medicine (MAHM). Therefore, there will be no additional cost to the department. Also, the faculty EFT for teaching is budgeted as for the masters.

<u>Expense Budget</u>	<u>First Year</u>	<u>Second Year</u>	<u>Third Year</u>
(1) Personnel*	\$20,000	\$20,000	\$20,000
(2) Operating Cost	\$5,000	\$5,000	\$5,000
(3) Capital Outlays	0	0	0
(4) Library	0	0	0
(5) Total	\$25,000	\$25,000	\$25,000
* part-time contract faculty member			

### Income:

The program is fully supported by the tuition dollars of \$6,000/semester. One half of this will go to the UoM, therefore, \$3,000/student x 2 semesters is annual \$6,000 to UGA. We estimate 10-15 students/year once the program is at maximum student level.

## 9. Financial Support Needed to Initiate Program

None – UGA is already offering these courses.

## 10. Administration of Program

The program will be administered through the UGA Graduate School.

In addition, a **Management Committee** has been established with 2 representatives from The University of Georgia and 2 from the University of Melbourne. In addition to these 4 representatives, a chair has been appointed to rotate between the universities on a biennial basis. The Management Committee will select each year's new certificate class from the approved applicants, review all ongoing issues concerning administration of the program, such as students records, fees, changes to the curriculum and student grievances.

*The administrative oversight responsibility* or any student grievances will fall first upon the course instructor, then the Management Committee, then to the Dean of the Graduate School at The University of Georgia and also the Dean of the College of Veterinary Medicine at the University of Melbourne. The quality of the program will also be assessed by an exit questionnaire, a 5 year post certificate questionnaire.

**Appendix 1. Faculty Roster**

**Roster of Instructional Staff**

**Name of Institution(s): The University of Georgia and the University of Melbourne**

**Name of Academic Area, Discipline, Department/School: Charles L. Hofacre, Dept. of Population Health (UGA)**

1 Name	2 Courses Taught	3 Academic Degrees Earned	Institution Highest Degree Attained	4 Other Qualifications
<i>The University of Georgia</i>				
John R. Glisson	POPH 7418L, 7414L	DVM, MAM, PhD	The University of Georgia	Clinical avian medicine, mycoplasmosis and bacteriology
Charles L. Hofacre	POPH 7210E, 72220E, 7414L	DVM, MAM, PhD	The University of Georgia	Clinical avian medicine, mycoplasmosis and bacteriology
Steve Collett	POPH 7210E, 7220E	DVM, MMedVet Poultry	University of Pretoria, South Africa	Clinical avian medicine
Guillermo Zavala	POPH 7230E, 7418L	DVM, MAM, PhD	The University of Georgia	Clinical avian medicine, Avian virology
Karen Burns Grogan	POPH 7210E	DVM, MAM	The University of Georgia	Clinical avian medicine
<i>University of Melbourne</i>				
Amir Noormohammadi	POPH 7310E	DVM, PhD	The University of Melbourne, Australia	Clinical avian medicine, pathology, microbiology
Neil Harwood Christensen	POPH 7210E, 7220E	BVSc	Massey University	Clinical avian medicine
Juergen Lohr	POPH 7310E	BVSc	University of Munich, Germany	Pathology

# Appendix 2



22 September 2014

Susan Scheff Wells  
UGA Office of Legal Affairs  
Via Email: [swells@uga.edu](mailto:swells@uga.edu)

Dear Ms Scheff Wells

We wish to advise that the Collaboration Agreement between the University of Melbourne and the University of Georgia, relating to the delivery of the Avian Health Online program which expires on 25 March 2015 will not be extended or renewed. We understand and will comply fully with our obligations for the teach out of the program.

We seek to clarify the position in relation to the future use of the Intellectual Property in the Program Materials. Under clause 9.1(d) of the Collaboration Agreement between the University of Melbourne and the University of Georgia, the right, title and interest in the Intellectual Property subsisting in the Program Materials (as defined under clause 1.1) will vest in Melbourne University and Georgia as tenants in common. Further, under clause 9.1(e), both parties have an obligation not to sub-licence the Intellectual Property in the Program Materials without the express consent of the other party. These clauses will survive the expiry of the Agreement.

While it is not explicitly stated, we wish to confirm you are also of the view that both parties may continue to freely use the jointly owned Intellectual Property in the Program Materials for teaching and learning purposes without having to obtain the other party's prior consent.

Yours Sincerely,

Professor Kenneth W. Hinchcliff  
Dean, Faculty of Veterinary and Agricultural Sciences

cc. Professor Charles Hofacre (via email to: [chofacre@uga.edu](mailto:chofacre@uga.edu))