A Graduate Certificate Program in
Veterinary Homeland Security

Awarded by
The Graduate School
and
The School of Veterinary Medicine

The Veterinary Homeland Security Graduate Certificate Program is designed to meet the needs of individuals involved in animal emergency response. Individuals with expertise in veterinary medicine, public health, animal science or homeland security are encouraged to participate. The underlying fundamentals of responding to animal health emergencies, whether intentional or natural events, will be covered in required courses. Elective courses such as radiological and chemical events, euthanasia and carcass disposal, geographical information systems, and crime scene management will allow the participant to develop a specialty in a specific area of Veterinary Homeland Security. In this way, the program of study can be tailored to meet individual needs of members of emergency response teams. The program is a cooperative effort among The Purdue University School of Veterinary Medicine, the Indiana Board of Animal Health, Discovery Park, and the Indiana State Police. Currently, there is a significant shortage of veterinarians and other professionals to serve our nation’s future needs in public health, regulatory medicine and food animal medicine. The provision of remotely accessible, quality training for existing veterinary professionals and other qualified individuals by this program would provide an immediate means of addressing the current shortage. Specifically, participants would:

- Enhance understanding of natural and intentional threats to animal health;
- Strengthen skills to prevent animal health emergencies;
- Develop problem solving expertise to be an effective member of an animal emergency response team

Outline of Information

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Purpose of the Program

Agriculture and food are part of our nation’s critical infrastructure. Agriculture and food are vulnerable to intentional and accidental introduction of agents with the capability for widespread damage to the nation’s people, animals and economies. Moreover, seventy-five percent of new and emerging diseases in people are estimated to result from spillover of disease agents from wild and domestic animal populations. In addition, the majority of agents identified by the Centers for Disease Control and Prevention as potential bioweapons are zoonotic diseases. The veterinary profession has the broadest base of skills to address the above threats. Also, the daily interface that the veterinary profession has with the nation’s animal populations gives veterinarians the greatest ability for facilitating early detection and containment. However, numerous studies have predicted a significant shortage of veterinarians to serve our nation’s future needs in public health, regulatory medicine and food animal medicine. Considerable time will be required to attain funding, build infrastructure, train and graduate additional veterinarians to meet national needs. The provision of remotely accessible, quality training for existing veterinary professionals and other qualified emergency responders would provide an immediate means of addressing the current shortage.

This Certificate program, sponsored by the School of Veterinary Medicine at Purdue University is designed to help the veterinarian, and other emergency responders who might be called in to assist in the event of an animal health emergency, become knowledgeable about the area of Veterinary Homeland Security as applied to preventing and managing natural and intentional animal health emergencies. The awarded Graduate Certificate will serve as evidence that the student has achieved a significant level of expertise in Veterinary Homeland Security.

We expect participation by up to 70 veterinarians who have volunteered as members of the Indiana Animal Surveillance and Emergency Response Teams (ASERTs). The result will be a well-trained force of veterinarians whose daily vigilance and advanced skills would significantly improve Indiana’s capabilities for deterring, detecting, responding to and recovering from animal related emergencies that have the potential to negatively impact the economy, food safety, public health or animal health of Indiana and its citizens. Additionally, the program will be open to participation by other veterinarians, other professionals, and qualified emergency responders who have a baccalaureate degree or equivalent. The program is also open to veterinary medical or human medical professional students with at least 3 years of post-secondary schooling. When fully implemented, it is expected that there will be at least 200 students enrolled in the graduate certificate program. We expect that five percent of the veterinarians will enroll concurrently or subsequently for a graduate degree at Purdue. Tuition from non-Indiana ASERT team members can be used to make this program self-sustaining. This novel initiative allows us to fulfill both learning and engagement roles in our State as well as have a National impact on homeland security preparedness.
Target Audience

The Graduate Certificate program meets the needs of

- Indiana Animal Surveillance and Emergency Response Team Veterinarians
- Other Veterinarians

The need for trained individuals in animal health emergency response likely will exceed the number of veterinarians participating in this program. Because of the necessity of a trained response team, the graduate certificate will be available to other qualified emergency responders who have a baccalaureate degree or equivalent, and veterinary medical or human medical professional students with at least 3 years of post-secondary schooling, with permission by the Administrator at the Purdue University School of Veterinary Medicine. Other qualified emergency responders are defined as:

- Registered Veterinary Technicians
- Public Health Officials
- Government Officials
- Extension Educators
- Physicians
- Graduate students in veterinary medicine, medical sciences, animal sciences, and public health
- Veterinary students
- Law enforcement

Relation to Existing Certificate Programs

The certificate program in "Veterinary Homeland Security" has been available through Purdue University since 2006. It is anticipated that other graduate certificates will be developed in the area of Homeland Security. The courses of the proposed graduate certificate in Veterinary Homeland Security could be utilized for other concentrations in interdisciplinary fields of homeland security. Moreover, core courses can be modified and used by extension personnel to engage and inform other target audiences such as the general public and media.

Frequently Asked Questions about the Graduate Certificate

- How to apply for the Graduate Certificate?

The student can obtain information about the Graduate Certificate on the National Biosecurity Resource Center (NBRC) website. The student can also contact the School of Veterinary Medicine administrator who can answer questions about requirements or content. Students should apply at least 3 weeks before the start of session in which they plan to enroll.
(international students should apply at least 10 weeks before) to allow sufficient time for the processing of the application.

Currently, the student must complete an application to the program (application is on NBRC website) and get permission from the Administrator of the program to go forward and complete a Graduate School application. Beginning September 1, 2010, the student will go directly to the Purdue University Graduate School website and complete the Graduate School application and a supplementary application for this program.

The student must complete the Purdue University Graduate School application form for studies at West Lafayette (Main Campus). In the enrollment objectives, the student must indicate in the Area of Interest “Graduate Certificate in Veterinary Homeland Security”. Licensed veterinarians must submit original transcripts for proof of a D.V.M. or equivalent degree and one ‘letter of reference’. Licensed veterinarians must have no record of felony conviction. Non-licensed veterinarians and non-veterinarians need to submit transcripts of educational degrees to date, a current curricula vitae, and two ‘letters of reference’ with contact information. Non-licensed veterinarians and non-veterinarians must have no record of a felony conviction. Materials from non-licensed veterinarians, non-veterinarians and veterinarians must be reviewed and recommended by the Administrator at the School of Veterinary Medicine for admission into the Certificate Program. The School of Veterinary Medicine will recommend admission into the certificate program to the Graduate School for those applicants it would like to enroll.

If an applicant declares a criminal act or criminal conduct for which there is concern, the Administrator of the program will refer the application to the associate graduate dean responsible for admission. The associate dean will confer with the chair of the University’s Personal Conduct Review Committee.

- How long is the student allowed to take to complete the Certificate?

**Students enrolled prior to Fall 2009:**

1. All courses must be completed within a four-year time span. Students set their own pace for completion. Students are not required to be registered for graduate courses each session. Students not completing a course within a given session will receive an ‘incomplete’ for the course. If the ‘incomplete’ remains past the 12th week of the second subsequent semester of enrollment the grade will automatically revert to an “incomplete failure”. A permanent grade may be assigned in the session in which course requirements are completed as long as it falls within the four year time frame. The permanent grade will replace the “incomplete” or “incomplete failure” when calculating the student’s graduate index. The first and last classes the student takes for the Graduate Certificate define the four-year time frame. For instance, a student enrolling in their first course in the Fall 2008 session must complete all classes by the end of the Summer Session 2012.

2. Students with more than one incomplete course will not be allowed to register for additional courses.
3. Compact discs can be requested (if available) if students provide sufficient justification for need. Compact discs must be returned following completion of course material. If compact discs are not returned, the student will receive a failing grade in the course and will be dismissed from the program.

**Students enrolled Fall 2009 and thereafter:**

How long is the student allowed to take to complete the certificate?

1. All courses must be completed within a four year time frame. The session that the student is admitted to the Graduate School marks the start of the four year period. The four year time frame may be adjusted for special circumstances with permission of the program administrator.

2. Students must register for at least one course every three sessions (Spring, Summer, Fall) or they will be ineligible to continue in the program without reapplication to the Graduate School.

3. Students that are ineligible to continue must reapply to the Graduate School at their own expense and be accepted to the Graduate School before they will be allowed to register for additional courses and continue in the program.

4. Students must complete individual courses no later than the 12th week of the second subsequent semester of enrollment or their grade will automatically revert to an “incomplete failure”. A student who receives a grade of “incomplete failure” may re-register for the course at his/her own expense.

   a. If the student re-registers, repeats, and completes the course within two subsequent semesters of enrollment from the first time taking the course, the original grade of “incomplete” will not revert to a failing grade. Instead, the student’s transcript will indicate a permanent grade in the course which is counted in the graduation index, and an “incomplete grade” in the course which is not included in the graduation index. Please note that students should not reregister for an incomplete course until the grade reverts to an “incomplete failure.”

   b. If the student receives an “incomplete failure” but:

      o does not repeat the course at all,
      o repeats and completes the course after more than two subsequent semesters of enrollment have passed, or
      o repeats the course within two subsequent semesters of enrollment but does not complete the course before the 12th week of the second subsequent semester of enrollment

      the grade of “incomplete failure” will remain on the transcript and will be counted in the student’s graduation index.

5. Students with more than one incomplete course will not be allowed to register for additional courses.

6. Incompletes must be resolved by the last day of the session in which the Veterinary Homeland Security Graduate Certificate student plans to graduate.
7. Compact discs can be requested (if available) if students provide sufficient justification for need. Compact discs must be returned following completion of course material. If compact discs are not returned, the student will receive a failing grade in the course and will be dismissed from the program.

- Do courses taken at Purdue University before the student enrolls in the Graduate Certificate program apply?

Yes, if they are applicable to the Graduate Certificate at the time the student registers for the program, and if they fall within the four-year time limit.

- If a student already has a Master’s or PhD from another school or another field from Purdue University, can he/she still earn a Purdue Graduate Certificate in Veterinary Homeland Security?

Yes.

- How can the student receive credit for a course taken elsewhere that he/she wishes to transfer to the Graduate Certificate program?

The Veterinary Homeland Security Graduate Certificate Program does not accept transfer credit.

- How does the student receive the Certificate?

Students enrolled prior to Fall 2009:

1. Before the session of anticipated graduation begins, the certificate student must notify the Administrator at the School of Veterinary Medicine that he/she anticipates completing all certificate requirements by the published deadlines and needs to be registered as a candidate.

2. The student must be registered for a course during the session of certificate completion or the student must register as “Degree Only” in order to receive his/her certificate.

Please note: There is a fee to register for “Degree only”. The Veterinary Certificate Program will pay this fee for students who:

- have signed up for all 9 credit hours required to complete the certificate before the start of the Fall 2009 session but have incompletes in one or more courses
- notify us that they will complete all incomplete courses in Fall 2009 or Spring 2010 and register as “Degree only” during either of but not both of these sessions.
- complete all courses during the session they have registered as “Degree Only”

Students still retaining incomplete grades at the end of the Spring 2010 session will be responsible for all fees incurred for registering as “Degree only.” Also note that students
registered as “Degree only” in a given session, who fail to complete the program in that session must re-register as “Degree only” and pay all pertinent fees.

3. Before the deadline to declare candidacy, the Administrator of the School of Veterinary Medicine will appropriately add/delete candidates to the candidate roster. The Graduate School is to then be notified of the adjustments by email to the gradweb@purdue.edu account. The Graduate School will send to the School of Veterinary Medicine the “Certification of Completion of Graduate Certificate Requirements” form. This form will need to be reviewed, signed by the program administrator, and returned to the Graduate School.

4. Upon authorization from the Graduate School, the Office of the Registrar will generate the certificate for the student and forward it to the permanent address of the student.

**Students enrolled Fall 2009 and thereafter:**

1. Before the session of anticipated graduation begins, the certificate student must notify the Administrator at the School of Veterinary Medicine that he/she anticipates completing all certificate requirements by the published deadlines and needs to be registered as a candidate.

2. The student must be registered for a course during the session of certificate completion or the student must register as “Degree Only” and pay all applicable fees in order to receive their certificate. Please note, “Degree Only” registration is allowed only once.

3. Before the deadline to declare candidacy, the Administrator of the School of Veterinary Medicine will appropriately add/delete candidates to the candidate roster. The Graduate School is to then be notified of the adjustments by email to the gradweb@purdue.edu account. The Graduate School will send to the School of Veterinary Medicine the “Certification of Completion of Graduate Certificate Requirements” form. This form will need to be reviewed, signed by the program administrator, and returned to the Graduate School.

4. Upon authorization from the Graduate School, the Office of the Registrar will generate the certificate for the student and forward it to the permanent address of the student.

- How will the Certificate be recorded?

**Degree Awarded**

Awarded: Graduate Certificate

Degree Date: Month, Day, Year

**Curriculum Information**

Primary Degree Program: Veterinary Clin Sci- Grad Cert

College: Graduate Studies

Campus: West Lafayette

Major: Veterinary Clinical Sci

Major Concentration: Vet Homeland Security

- Can the student earn both a Certificate and an MS degree from Purdue?
Yes. Courses may be counted both for the Certificate and for a Master’s degree. Students already enrolled in the Master’s degree program in Veterinary Medicine from Purdue are still eligible for the Certificate. Note that, to be a graduate student in a degree-seeking Master’s program, the student must complete a separate application form and be admitted to the MS program by the Purdue University Graduate School. Graduate Council policy allows use of a total of 12 credits with a grade of B or better (including credits used toward the certificate) on a master’s plan of study.

- Can a student who completes the certificate continue to take courses in the Veterinary Homeland Security Graduate Program?

Yes. Students who have completed their certificate can register for courses for up to three sessions following the session in which the certificate was awarded. As long as students register at least once in those three sessions, they will continue to have eligibility to register. The student must have permission of the program administrator to continue to take courses during these sessions, and the three subsequent sessions must fall within the four year time frame. Graduate Council policy would allow students to use a total of 12 credits with a grade of B or better (including credits used toward the certificate) on a master’s plan of study.

- Other questions?

Call the Program Office at the School of Veterinary Medicine at (765) 494-9798.

Completion Requirements

- 9 credits in veterinary homeland security. No credits may be transferred from another university.
- Note: Up to 12 credit hours with a grade of B or better earned in non-degree status (while enrolled in the Graduate Certificate) at Purdue University may be applied towards a graduate degree.

Students enrolled prior to Fall 2009:
An average grade of B (3.0) or higher overall is required. If the student receives a lower grade in a course, he/she may repeat it once, or, for elective courses only, substitute another approved elective. The repetition or replacement will be allowed for a maximum of one course, respectively. Students earning an “incomplete” or “incomplete failure” will have the four-year time period to complete the course and be assigned a permanent grade to replace the “incomplete” or “incomplete failure”. If the four-year time period expires, the student will have to re-apply and potentially be readmitted to the certificate program and the Graduate School, and re-register for the course, all at the student’s expense.
Students enrolled Fall 2009 and thereafter:

An average grade of B (3.0) or higher overall is required. If the student receives a lower grade in a course, he/she may repeat it once, or, for elective courses only, substitute another approved elective. The repetition or replacement will be allowed for a maximum of one course, respectively. Students must complete individual courses no later than the 12th week of the second subsequent semester of enrollment or their grade will automatically revert to an “incomplete failure”. If the student re-registers, repeats, and completes the course within two subsequent semesters of enrollment from the first time taking the course, the original grade of “incomplete” will not revert to a failing grade. Instead, the student’s transcript will indicate a permanent grade in the course which is counted in the graduation index, and an “incomplete grade” in the course which is not included in the graduation index. Otherwise, the student will receive a final grade of “incomplete failure” and the grade of “incomplete failure” will remain on the transcript and will be counted in the student’s graduation index.

If the four-year time period expires, the student will have to re-apply and potentially be readmitted to the certificate program and the Graduate School, and re-register for the course, all at the student’s expense.

Admission Requirements

- The applicant licensed veterinarian must have a D.V.M. or equivalent degree from an accredited institution in the USA, or a recognized foreign institution. The student must also arrange for at least one ‘letter of reference’ to be sent directly to the Veterinary Homeland Security Program office. Veterinarians must have no record of felony conviction.

- The applicant non-licensed veterinarian or non-veterinarian must have a Bachelor’s degree in an appropriate area (including but not limited to medical science, animal science, biology, public health) with a Graduation Index (or GPA) of 3.0 or higher from an accredited institution in the USA, or a recognized foreign institution. The student must also arrange for at least two ‘letters of reference’ and a current curriculum vita to be sent directly to the Veterinary Homeland Security Program office. Non-licensed veterinarians and non-veterinarians must have no record of felony conviction. For international students whose native language is not English, a minimum TOEFL score of 77 (with required Graduate School minimums on the four sub-tests) is also required. Materials from non-veterinarians must be reviewed and approved by the Administrator of the Veterinary Homeland Security Graduate Program for admission into the Certificate Program.
Final Version: 9/30/09

- Note: Acceptance into the Certificate program does NOT assure admission to the Graduate School of Purdue University to pursue an advanced degree.

Course Curriculum

All courses carry 0.5 to 3.0 credit hours (as indicated on the list below). Courses are all coordinated by the graduate faculty of Purdue University; however, lectures will be provided by international experts in each field. We expect all of the courses below to be available by the summer session of 2012. Courses will be delivered by distance learning. Students can access course material on the National Biosecurity Resource Center website, or by CD-Rom if the student does not have high speed internet access. Courses cannot be repeated for credit for the certificate.

Required:

- VCS 64000 Introduction to Veterinary Homeland Security (1.0 cr.)
- VCS 64700 High Consequence Disease Review: Zoonotic (1.0 cr.)
- VCS 64800 Defining the Threat (0.5 cr.)
- VCS 64900 Understanding the Response (0.5 cr.)
- VCS 65100 Biosecurity for Veterinary Responders (1.0 cr.)
- VCS 65300 The Veterinarian’s Role in Community Planning (0.5 cr.)

And 4.5 credits from the following electives:

- VCS 64100 High Consequence Disease Review: Multiple Species (1.0 cr.)
- VCS 64200 High Consequence Disease Review: Bovine (1.0 cr.)
- VCS 64300 High Consequence Disease Review: Equine (1.0 cr.)
- VCS 64400 High Consequence Disease Review: Swine (0.5 cr.)
- VCS 64500 High Consequence Disease Review: Minor Species (1.0 cr.)
- VCS 64600 High Consequence Disease Review: Avian (1.5 cr.)
- VCS 65200 Euthanasia and Carcass Disposal (1.0 cr.)
- VCS 65400 Food Borne Illnesses (1.0 cr.)
- VCS 65500 GIS Applications in Veterinary Emergency Management (1.0 cr.)
- VCS 65600 Managing an Emergency (1.0 cr.)
- VCS 65700 Crime Scene Management (1.0 cr.)
- VCS 65800 Radiological Events: Implications for Animal and Food Safety (1.0 cr.)
- VCS 65900 Business Continuity Management (0.5 cr.)
- VCS 66300 Service Learning in Veterinary Homeland Security (3.0 cr.)*
- VCS 66400 Veterinary Homeland Security Manuscript Preparation & Submission (3.0 cr.)*

*Indicates courses proposed but not approved as of July 2009
Administration of the Graduate Certificate

The Administrator at the School of Veterinary Medicine will be responsible for administering the graduate certificate program. When the application submitted by the student via the Purdue University Graduate School is received, a folder will be created for the student. Within two weeks of being complete (proof of DVM or equivalent degree, one letter or reference and no felony convictions for licensed veterinarians; BS/graduate transcripts, two letters of reference, and no felony convictions for non-licensed veterinarians and non-veterinarian students), the folder will be reviewed. If an applicant declares a criminal act or criminal conduct for which there is concern, the Administrator of the program will refer the application to the associate graduate dean responsible for admission. The associate dean will confer with the chair of the University’s Personal Conduct Review Committee.

The recommendation for admission will be communicated to the Graduate School and the applicant will also be advised of the action. Along with this advice, the student will be sent the ‘worksheet’ (attached with this document). The progress of the student through the graduate certificate will be tracked using the ‘worksheet’, one copy of which will be made available to the student, and one copy placed in the student's folder.

In the session the student is registered for the last class applicable towards the certificate, the student will send the Administrator at the School of Veterinary Medicine the completed worksheet. The address is:

Veterinary Homeland Security  
Purdue University  
VCS/LYNN Room 1352  
625 Harrison Street  
West Lafayette, Indiana 47907-2026

Before the session of anticipated graduation begins, the certificate student must notify the Administrator at the School of Veterinary Medicine that he/she anticipates completing all certificate requirements by the published deadlines and needs to be registered as a candidate.

The student must be registered for a course during the session of certificate completion or the student must register as ‘Degree Only’ and pay all applicable fees in order to receive their certificate. Please note, ‘Degree Only’ registration is allowed only once.

Before the deadline to declare candidacy, the Administrator of the School of Veterinary Medicine will appropriately add/delete candidates to the candidate roster. The Graduate School is to then be notified of the adjustments by email to the gradweb@purdue.edu account. The Graduate School will send to the School of Veterinary Medicine the ‘Certification of Completion of Graduate Certificate Requirements’ form. This form will need to be reviewed, signed by the program administrator, and returned to the Graduate School.

Upon authorization from the Graduate School, the Office of the Registrar will generate the certificate for the student and forward it to the permanent address of the student.
RECORD WORKSHEET
GRADUATE CERTIFICATE PROGRAM IN VETERINARY HOMELAND SECURITY

Name (as it should appear on certificate):

Address:

City, State, Zip:

Telephone (Home) ___________________ (Work) ___________________

Student ID number: ____________________________

Completed Courses for the certificate program:

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VCS 66300 Service Learning in Veterinary Homeland Security

VCS 66400 Veterinary Homeland Security Manuscript Preparation & Submission
I hereby agree to the terms of the Graduate Certificate Program in Veterinary Homeland Security as stated in this document.

Dr. Willie Reed, Dean, School of Veterinary Medicine (SVM)  Date 9/30/09

Dr. Peter Constable, Head, Department of Veterinary Clinical Sciences  Date 9/30/09

Dr. Mark Smith, Dean, Graduate School  Date 09/30/09