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Department Name Paul G. Allen School for Global Animal Health

1. **CHECK PROPOSED CHANGES.**
   - *☐ Change department/program name *from* _____ *to* _____
   - *☐ New degree or program *in* _____
   - *☐ Change name of degree *from* _____ *to* _____
   - *☐ Drop degree or program *in* _____
   - *☐ Extend existing degree or program *to* _____ campus
   - ☐ New Major *in* _____
   - ☐ Change name of Major *from* _____ *to* _____
   - ☐ Revise Major requirements *in* _____
   - ☐ Drop Major *in* _____
   - ☐ Revise certification requirements for the Major *in* _____
   - ☐ New Option *in* _____
   - ☐ Revise requirements for the Option *in* _____
   - ☐ Drop Option *in* _____
   - ☐ New Minor *in* _____
   - ☐ Revise Minor requirements *in* _____
   - ☐ Drop Minor *in* _____
   - ☐ New Undergraduate Certificate *in* _____
   - ☐ Revise Undergraduate Certificate requirements *in* _____
   - ☐ Drop Undergraduate Certificate *in* _____
   - ☑ Other NEW Professional Student Certificate in Global Animal Health

Effective term/year 2,011

Mushtaq Memon	(509) 335-0766	memon@vetmed.wsu.edu
Contact Person	**Contact Phone No.**	**Contact email**

2. **GIVE REASONS FOR EACH REQUEST MARKED ABOVE.** *(Attach additional paper if necessary; see reverse side.)* See Attached Program Document under the Rationale section

4. **SIGN AND DATE APPROVALS.**

M H Palmer — Chair Signature/date
[signature] 4-12-11 — Dean Signature/date
General Education Com/date

Catalog Subcom/date
Academic Affairs Com/date
Graduate Studies Com/date
Senate/Date

Global Animal Health Pathway

Paul G. Allen School for Global Animal Health
College of Veterinary Medicine
Washington State University

Rationale

The Paul G. Allen School for Global Animal Health (Allen School) is establishing a new Global Animal Health Pathway (GAHP) designed specifically for veterinary students at Washington State University (WSU). The goal of the GAHP is to inform and educate veterinary students about the critical role that animal health has in global health, economic disparities, and the impact of disease control at the animal-human interface. The Allen School with cooperation from and in partnership with the University of Washington (UW), Department of Global Health, Schools of Medicine and Public Health, will provide a unique educational opportunity for WSU veterinary students to develop an understanding of the fundamental role that animals play in global health and the impact veterinarians can have on global health challenges.

Global Health is an increasingly important interdisciplinary field. More than 65 percent of recent major disease outbreaks in humans originated in animal hosts, with a disproportionate impact on people in low income countries. Global health acknowledges that health problems as well as their solutions transcend boundaries both geographically and among health professions. The Paul G. Allen School for Global Animal Health (Allen School) at Washington State University's College of Veterinary Medicine is committed to providing innovative strategies for the treatment and control of infectious diseases that affect human health and economic development. Our scientists are working daily to resolve public health and global poverty challenges by detecting emerging pathogens and disease, controlling the transmission of disease from animals to humans, and developing and deploying vaccines to control major vector-borne diseases in livestock. The Allen School is dedicated to pioneering solutions to global health challenges through research, education, global outreach, and application of disease control at the animal-human interface.

The GAHP will provide interested veterinary students an environment where they will understand the impact the veterinary profession and veterinarians can have on global health, and where they can become prepared to recognize the challenges related to global animal health. As a certificate pathway within veterinary medical education, engaged students will be expected to augment their veterinary curriculum with the GAHP requirements in order to develop a "global health" focus to their veterinary education. Furthermore, the GAHP will prepare students, as global citizens, to synthesize information and develop solutions to critical global health concerns. Students will earn a Global Animal Health Certificate in addition to their DVM professional degree.

The GAHP will provide an innovative structure to embed global health training in the curriculum of veterinary students and foster interdisciplinary student interactions across

the professions. The program addresses a significant gap in awareness of the interdependencies of health with ecology, economics, nutrition, media and politics in a global society. Through the partnership with UW we expect increased collaborative efforts of professionals from synergistic academic disciplines. The foundation coursework will enhance the student knowledge base to develop competency in multidisciplinary and multicultural perspectives of global health.

The GAHP will build on the strengths of the international research and training expertise of the faculty and, by intercalation into the core professional curriculum will increase the skill-set of students to impact global health. The GAHP expands opportunities for and competencies of veterinarians in reducing global health disparities through intervention at the animal-human interface.

Student Learning Objectives:

The GAHP goal is to expand opportunities for and competence of veterinarians in reducing global health disparities through intervention at the animal-human interface. Students are expected to complete designated course work as well as participate in global animal health experiences designed to meet the following learning objectives:

- Understand the historical, socio-economic, cultural, political and environmental factors responsible for global health disparities.
- Develop a multidisciplinary and multicultural perspective regarding global health.
- Learn to collaborate effectively with professionals from diverse academic disciplines and cultural backgrounds.
- Develop an awareness of the key diseases affecting animal health in middle and lower income countries, and the animal production systems in which these diseases are addressed.
- Learn how animal and zoonotic diseases are effectively controlled in different cultural frameworks and in areas with limited resources.
- Learn how to identify gaps in knowledge that limit effective control of animal and zoonotic disease and the roles for discovery, development, and implementation science in resolving animal health problems, thereby reducing global health disparities.

Student Learning Outcomes:

Veterinary students graduating from WSU with the GAHP certification will be able to:

- *Demonstrate a basic understanding of:*

- The role of animal health in food and economic security, including the disparities among nations, cultures, and economic classes.

- Major socio-economic, cultural, political, and environmental factors that contribute to poor animal health in middle and low income countries and in low-resource settings within developed countries.

- Programs and policies designed to address major animal health problems and the roles of local, regional, national, and international institutions in formulation and implementation of disease control.

- *Demonstrate a detailed understanding of:*

- The current disease burden and approaches to reduce this burden in at least one geographic region or resource poor population.

- *Act as Global Citizens by:*

- Demonstrating familiarity with the world's geography, nations, peoples, cultures, and governments in the context of global animal and public health

- Having the ability to advocate for global animal health

- Understanding the role of agricultural, economic, and foreign policies of the United States, and their impacts on animal and human populations worldwide; and the interdependencies of ecology, health, media, and politics in societies around the world

Structure of the Global Animal Health Pathway

The Global Animal Health Pathway (GAHP) requires a minimum of 15 course credits to earn a certificate. Students receive credit for completion of an introductory course (VM 501) which provides a broad orientation toward global health and international veterinary medicine. Additional required and selected elective courses are listed below. The remaining credits may be obtained from elective courses offered by WSU, and on-line courses offered through the UW Global Health Pathway and jointly listed at both institutions. WSU has many courses across the institutions' individual Colleges and Departments that focus on various aspects of global animal health. Those include, but are not limited to courses focusing on US Foreign Policy, Bioethics, and Global Theory/Regional Reality. A veterinary student, with the approval of the GAHP Coordinator, may elect to take one or more of these courses as credit towards the fulfillment of the additional credit hours required to earn a certificate. Students wishing

to enroll in the GAHP program must maintain a minimum 3.00 in graded professional coursework and remain in the upper 75% of the DVM class.

REQUIRED COURSES:

- **WSU-VM 501 – International Veterinary Medicine** (1 credit): An introductory, team-taught one credit elective course offered during fall semester. (DVM Curriculum)

- **UW-GH 501 (requested courses GAH 503)- Introduction to Global Health** (1 credit) – available via video conference during Fall semester

- **WSU-VM 504 – Global Studies** (3-8 credits). Externship with a global animal health focus taken during the summer after the 1st and/or 2nd DVM year. The students receive 1 credit for 1 week of externship (40hr/wk).

- **WSU-VM 576 – Emerging and Exotic Animal Diseases** (1 credit, core): The 1-credit required DVM course would replace the existing course (Foreign Animal Diseases) from spring semester 2011. Most of the course content will be offered on-line with a few on-site (Pullman) presentations. (DVM Curriculum)

- **WSU-VM 600 – Scientific Writing and Presentation** (1 credit, 4th yr core) – The GAHP students would utilize this course as an **Independent Investigative Inquiry,** a global health related project and presentation. (DVM Curriculum)

- **VM 690 – Student Initiated Professional Experience** (SIPE, 2-4 credits, 4th core) – The GAHP students would utilize this course as an **Independent Investigative Inquiry** related to global animal health by working within the United States on a relevant global health project.

APPROVED ELECTIVE COURSES:

- **Global Animal Health Special Topics** (elective - variable credit) The course will focus on developing the skills necessary to prepare for a global animal health project.

- **SPAN 362 Topics in Professional Language (Spanish for DVM students)** (3 credits) Specialized language training; may include Spanish for health professionals, law enforcement personnel, veterinarians and other areas.

- **SPAN 405 Advanced Conversations (Spanish for DVM students)** (1 credits) Advanced-level conversation practice in small groups with a native speaker.

- **Animal Human Disease Interface** (*to be developed*) (1 credit) - The course contents will focus on understanding disease transmission from animal reservoirs

to humans. The new course would be suitable for Pathway students at WSU and UW.

- **Multi-disciplinary Approaches to Global Health Challenges** (*to be developed*) (1 credit) - Problem based course involving students from multiple disciplines such as law, medicine, veterinary medicine, business, anthropology, and others, focused on a specific global health challenge.

- **Global Animal Health Policy and Metrics** (*to be developed*) (1 credit) - An introduction to the development of animal health policy, the data required to develop scientifically sound policy, and the impact of animal health policy on animal and human health.

Global Animal Health project

All GAHP students will be required to complete a global animal health project. The student would work with a Allen School faculty mentor to design a project, which could be completed in conjunction with a UW-GH project team. The project must be oriented toward global animal health and be approved by the GAHP working group. The student will register for VM 600 (Scientific Writing and Presentation – required in DVM curriculum) for project write-up and presentation, and could utilize one of the following WSU courses to receive appropriate course credit for completing the project.

Depending upon the course(s) selected, the student would work with the GAHP Coordinator, WSU Education Abroad (EA), CVM Student Affairs, SIPE course coordinator/staff or UW-GH administrator, as appropriate. Please note that students cannot take courses that conflict with the required DVM coursework.

Foreign Language Skills

A foreign language is not required, but is highly recommended. The foreign language proficiency provides students with an in-depth understanding of cultural and contextual elements critical to working in the field of global animal health. Further, foreign language proficiency will increase the graduate's competitiveness for global health career opportunities upon graduation.

Administration & Oversight

The Allen School Director has primary responsibility for administering the program. The GAHP will be guided by the following five person advisory group: GAHP Coordinator, Allen School Director, CVM Associate Dean of Academic Affairs, a second Allen School faculty member, and a student. The Allen School Administrative Manager will be an *ex-officio* member of the advisory group. The goal of the GAHP advisory group is to guide development of a high-quality educational and training opportunity for veterinary students interested in global animal health. This group will also define areas for curricular development and address needs and issues related to students pursuing the GAHP.

The GAHP coordinator will report to the Director of the ALLEN SCHOOL for purposes of administering the pathway. The GAHP coordinator will be charged with the oversight of all curricular, advising and administrative functions of the program, including convening the GAHP advisory group. The GAHP coordinator will also collaborate with the key partners of the program, including the UW Department of Global Health and School of Public Health. The Allen School Administrative Manager will be responsible for day-to-day student and other activities including coordination of UW courses, maintaining the GAHP website, and providing limited office hours for individual student counseling.

Suggested Course Schedule for Global Animal Health Pathway

Paul G. Allen School for Global Animal Health
College of Veterinary Medicine
Washington State University

The purpose of the Global Animal Health Pathway (GAHP) is to educate veterinary students about the critical role that animal health has in global health, economic disparities, and the impact of disease control at the animal-human interface. The GAHP requires a minimum of 15 course credits. Six courses are required. All other course credits may be obtained through approved elective courses towards the fulfillment of the 15 credit hours needed to obtain the certificate. These courses include a global animal health project for which credit is gained through either VM 504 and/or VM 690. Students wishing to enroll in the GAHP program must maintain a minimum 3.00 in the graded coursework and remain in the upper 75% of the DVM class. [*Note: Washington State University has not yet approved the formal GAHP Certificate or all new courses. However, the program is currently being piloted and the new courses will be offered on a trial basis as they are developed.*]

Fall Semester (Year 1)		
VM 501	International Veterinary Medicine (required)	1 credit
Summer Session (Year 1)		
VM 504	Global Studies (recommended elective) (Capacity Building)	3-8 credits
Must be in top 75% of the class ranking to continue the following GAHP courses.		
Fall Semester (Year 2)		
UW – GH501[1]	Introduction to Global Health (required)	1 credit
Spring Semester (Year 2)		
GAH (in process)	Animal Human Disease Interface (recommended elective) The course contents will focus on understanding disease transmission from animal reservoirs to humans.	1 credit
	Present GAHP program of study for review and approval (February 1 deadline)	
Summer Session (Year 2)		
VM 504	Global Studies (Recommended elective) (Global Animal Health Focus)	3-8 credits
Spring Semester (Year 3)		
VM 576	Emerging and Exotic Animal Diseases (required)	1 credit
GAH (in process)	Multi-disciplinary Approaches to Global Health Challenges (elective) Problem based course involving students from multiple disciplines such as law, medicine, veterinary medicine, economics, social sciences, and others, focused on a specific global health challenge.	1 credit

Fall or Spring Semester (Year 4)

VM 600	Scientific Writing and Presentation (required)	1 credit
VM 690	Student Initiated Professional Experience (required)	2-4 credits
GAH (in process)	Senior Research Project (elective)	2 credits

Pathway Approved Electives

- **Global Animal Health Special Topics** (elective - variable credit) The course will focus on developing the skills necessary to prepare for a global animal health project.
- **SPAN 362 Topics in Professional Language (Spanish for DVM students)** (3 credits) Specialized language training; may include Spanish for health professionals, law enforcement personnel, veterinarians and other areas.

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- **SPAN 405 Advanced Conversations (Spanish for DVM students)** (1 credits) Advanced-level conversation practice in small groups with a native speaker.

WSU has many courses across the institutions' individual Colleges and Departments that focus on various aspects of global health. Those include, but are not limited to courses focusing on US Foreign Policy, Bioethics, and Global Theory/Regional Reality. Some of the course contents are being evaluated for GAHP recommendations. A veterinary student, with the approval of the GAHP Coordinator, may elect to take one of these courses during any semester or summer session as credit towards the fulfillment of the additional credit hours taken through elective courses.

REVISED

Suggested Course Schedule for Global Animal Health Pathway

Paul G. Allen School for Global Animal Health
College of Veterinary Medicine
Washington State University

The purpose of the Global Animal Health Pathway (GAHP) is to educate veterinary students about the critical role that animal health has in global health, economic disparities, and the impact of disease control at the animal-human interface. The GAHP requires a minimum of 15 course credits. Five courses are required. All other course credits may be obtained through approved elective courses towards the fulfillment of the 15 credit hours needed to obtain the certificate. These courses include a global animal health project for which credit is gained through either: VM 504, VM676 and/or VM 690. Students wishing to enroll in the GAHP program must maintain a minimum 3.00 in the graded coursework and remain in the upper 75% of the DVM class. [*Note: Washington State University has not yet approved the formal GAHP Certificate or all new courses. However, the program is currently being piloted and the new courses will be offered on a trial basis as they are developed.*]

Fall Semester (Year 1)

VM 501	International Veterinary Medicine (required)	1 credit

Summer Session (Year 1)

VM 504	Global Studies (recommended elective) (Capacity Building)	1-6 credits
OR		
VM 676	Veterinary Research Practicum (recommended elective) (Global Animal Health Focus)	1-8 credits

Must be in top 75% of the class ranking to continue the following GAHP courses.

Fall Semester (Year 2)

UW – GH501[1]	Introduction to Global Health (required)	1 credit

Spring Semester (Year 2)

VM 499	Animal Human Disease Interface (recommended elective) The course contents will focus on understanding disease transmission from animal reservoirs to humans.	1 credit
	Present GAHP program of study for review and approval (February 1 deadline)	

Summer Session (Year 2)

VM 504	Global Studies (Recommended elective) (Global Animal Health Focus) This course cannot be repeated for credit, so if you took the course in the Summer Session of Year 1 you cannot repeat the course during Summer Session of Year 2.	1-6 credits
OR		

VM 676	Veterinary Research Practicum (recommended elective) (Global Animal Health Focus)	1-8 credits

Spring Semester (Year 3)

VM 576	Emerging and Exotic Animal Diseases (required)	1 credit
VM 499	Multi-disciplinary Approaches to Global Health Challenges (elective)	1 credit

Problem based course involving students from multiple disciplines such as law, medicine, veterinary medicine, economics, social sciences, and others, focused on a specific global health challenge.

Fall or Spring Semester (Year 4)

VM 600	Scientific Writing and Presentation (required)	1 credit
VM 690	Student Initiated Professional Experience (required)	2-4 credits
VM 676	Veterinary Research Practicum (Senior Research Project -elective) 2 credits	

Pathway Approved Electives

- VM 499 - **Global Animal Health Special Topics** (elective - variable credit) The course will focus on developing the skills necessary to prepare for a global animal health project.

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- **SPAN ~~362~~ Topics in Professional Language (Spanish for DVM students)** (3 credits) Specialized language training; may include Spanish for health professionals, law enforcement personnel, veterinarians and other areas.

- **SPAN 405 Advanced Conversations (Spanish for DVM students)** (1 credits) Advanced-level conversation practice in small groups with a native speaker.

WSU has many courses across the institutions' individual Colleges and Departments that focus on various aspects of global health. Those include, but are not limited to courses focusing on US Foreign Policy, Bioethics, and Global Theory/Regional Reality. Some of the course contents are being evaluated for GAHP recommendations. A veterinary student, with the approval of the GAHP Coordinator, may elect to take one of these courses during any semester or summer session as credit towards the fulfillment of the additional credit hours taken through elective courses.