OBJECTIVE					Year 1 & Year 2 activities	(Pre-Residency) 2006	Year 1	Year 2	Year 3
Part I - core elements (45 ECTS points)	Points, required	Time required (days)	Time spent on element (by end of Yr2)	Remaining time to be devoted to element	Work that went towards element(& time spent)				
Introductory aetiology, epidemiology, diagnostics and control of infectious and non-infectious diseases of livestock populations	4	15	15	0	MSc. Epidemiological Aspects of Laboratory Investigations (2 days)	PGDipl. (Distance Learning): Epidemiology & Animal Health Economics – Introduction to Veterinary Epidemiology	MSc: Epidemiological Aspects of Laboratory Investigations		
					PGDipl. (Distance Learning): Surveillance & Investigation of Animal Health (8 days) Epidemiology & Animal Health Economics – Introduction to Veterinary Epidemiology (5 daws)	Veterinary Public Health – Control of Food Safety	Epidemiology & Control of Communicable Diseases PGDipl. (Distance Learning): Surveillance & Investigation		
Optimisation of animal welfare during production, transport and slaughter	2	5	2	3	PGDipl. (Distance Learning): Veterinary Public Health – Control of food Safety (2 days)	PGDipl. (Distance Learning):	of Animal Health	RVC Distance Learning short courses: Animal Welfare - Animal Transport & Slaughter	Self directed study assisted by supervisor
Principles and concepts of population medicine, with emphasis on quantitative veterinary epidemiology	3	10	10	0	MSc: Epidemiology in Context (2.5 davs) Statistics for Epidemiology and Public Health (7.5 days)	Veterinary Public Health – Control of food Safety PGDipl. (Distance Learning): Epidemiology & Animal Health Economics – Introduction to Vet. Enidemiology	MSc: Extended Epidemiology	Farm Animal Welfare of Intensively Farmed Linculates Application through HPAI project (see above)	
							PGDipl. (Distance Learning): Statistical Methods for Veterinary Epidemiology		
Principles and concepts of food science	3	10	8	2	PGDipl. (Distance Learning): Veterinary Public Health – Control of food Safety (8 days)	PGDipl. (Distance Learning): Veterinary Public Health – Control of food Safety			See Part V - Food Safety placement Self directed study assisted by supervisor
Principles and operation of food safety and food quality management	3	10	5	5	PGDipl. (Distance Learning): Veterinary Public Heatth – Control of food Safety (5 days)	PGDipl. (Distance Learning): Veterinary Public Health – Control of food Safety			See Part V- Food Safety placement Self directed study assisted by supervisor
Biostatistics as related to VPH and disease and control problems encountered	9	30	30	o	MSc: Statistical Methods in Epidemiology (15 days) PGDipl. (Distance Learning): Statistical Methods for Veterinary Epidemiology (15 days)	PGDipl. (Distance Learnina): Epidemiology & Animal Health Economics – Introduction to Statistics	MSc: Statistics for Epidemiology and Public Health Statistical Methods in Epidemiology PODIpl, (Distance Learning): Statistical Methods for Veterinary Epidemiology Surveillance & Investigation of Animal Health	Application through HPAI project	Application through additional projects
Familiarity with information and communication technology as related to VPH	3	10	10	0	MSc: Communication skills in epi (2days) VLA Placement (6 days) Defra HPAI project (2 days)			Application through HPAI project	Application through additional projects
Data handling and management for veterinary public health	3	10	10	0	MSc: Data Management Using Epidemiological Data (2.5 days) RVC- Microsof Access course (0.5 days) GIS course (2 days) VLA Placement (5 days)		MSc:	Application through HPAI project	Application through additional projects
Scientific writing and presentation of results from investigation	3	10	10	0	MSC: Communication skills in epi (2days) Scientific Writing (1 day) VLA presentation (2.5days) RVC presentation (1.5 days) RVC Poster (2 days) ISVEE poster (1 day)		RVC residents induction training programme.	Writing of 1-2 Manuscripts relating to project work (See HPAI project outline above)	Writing of 2 Manuscripts
Veterinary and scientific ethics, professionalism in VPH	2	5	5	0	MSc: Ethics seminars (1 day) VLA Ethics committee (0.5 days) RVC ethics approval (0.5 days) Interaction with Defra Minister justifying contacting farmers for Housing Order study (3 days)		Exposure through various projects	RVC Animal Welfare course module – Veterinary ethics and	
General concepts & principles of VPH	4	15	15	0	Assisting with RVC undergraduate VPH course (1.5 days) PGDipl. (Distance Learning): Veterinary Public Health –	PGDipl. (Distance Learning): Veterinary Public Health – Principles of veterinary Public Health	MSc: Public Health Lecture Series	Exposure through various projects	
Principles & concepts of human and animal health economics	2	10	10	0	Principles of veterinary Public OIE placement- International VPH in action (6.5 days) PGDipl. (Distance Learning): Epidemiology & Animal Health	PGDipl. (Distance Learning):	Exposure through various projects	MSc:	See Part V- DEFRA cost-benefit analysis of surveillance
					Economics – Principles of Economics – Principles of MSc: Animal Health Econimcs course & economic aspects of scenario tree work (2 days).	Epidemiology & Animal Health Economics – Principles of Economic Analysis		Animal Health Economics	surveillance systems

Principles concepts and methods of	3	10	10	0	MSc:	PGDinl (Distance	MSc:	MSc	See Part V. HPA
risk assessment	-				Surveillance of Animal Health & Production (1 day)	Learning): Veterinary Public Health – Introduction to risk Analysis & Risk assessment	Surveillance of Animal Health & Production	Applied Risk Assessment & Management	placement
					PGDipl. (Distance Learning): Surveillance & Investigation of Animal Health (4 days) Veterinary Public Health – Introduction to risk Analysis &Risk assessment (3 davs) EU AI Risk Assessment Work (2 days)		PGDipl. (Distance Learning): Surveillance & Investigation of Animal Health	Application through HPAI project	
Awareness of EU and international legislation in relation to VPH	3	10	10	0	VLA Placement (4 days) Defra HPAI project (2 days) EU AI Risk Assessment Work (2days) EU AI surveillance regulations for Scenario tree work (2 days)	PGDipl. (Distance Learning): Veterinary Public Health – Principles of veterinary Public Health	Application through HPAI project	Setf directed study of EFSA, SCFCAH and DGSANGO websites assisted by supervisor	
Part II - Population Medicine subspeciality elements (45 ECTS points)							Diverse aspects of Veterinary Population Medicine discussed in weekly epidemiology group seminars	Diverse aspects of Veterinary Population Medicine discussed in weekly epidemiology group seminars	Diverse aspects of Veterinary Population Medicine discussed in weekly epidemiology group seminars
Principles and procedures for filed trial design and study design, conduct and interpretations (including data collection, data processing, interpretation and management)	3	10	10	0	Defra HPAI Housing Order MSc: Extended Epidemiology (2 days) Statistics for Epidemiology and Public Health (2 days) MSc project- targeting BVD surveillance study design (7 days)	5		Application through HPAI project	
Concepts, principles and applications of quantitative ventrany epidemiology (special emphasis on diagnostic test evaluation, sampling procedures, observational analytical studies, questiomaire-based surveys, disease modelling)	11	40	40	0	Defra HPAI project (20 days) MSc: Extended Epidemiology (7 days) Epidemiological Aspects of Laboratory Investigations (3 days) Statistics for Epidemiology and Public Heath (3 days)	f 3		Application through HPAI Project	
Procedures and applications of qualitative and quantitative risk analysis and risk assessment, fisk management risk communication) of animal diseases and residues or contaminants at farm level	4	15	15	0	EU Al Risk Assessment Work (Sdays) Use of EU AI RA (Pleiffer et al.) (3 days) MSc: Applied Risk Assessment course within MSc Vet Epi (7 days)	PGDjpt (Distance Learning): Volerinary Public Health – Control of lood Safety & Introduction to risk Analysis & Risk accecement	MSc: Surveillance of Animal Health & Production PGDipt (Olstance Learning): Surveillance & Investigation of Animal Health	Application through HPAI project MSC: Applied Pisk Assessment & Management VLA based work	See Part V HPA placement
The population dynamics of infections and introvications, including disease modelling	3	10	10	0	MSc: Modelling & Dynamics of Infectious diseases (10 days)	r	PGDipl. (Distance Learning):	Application through HPAI project MSc: Modelling & Dynamics of Infectious diseases Epidemiology & Control of Non-Communicable Diseases	
Concepts, principles and applications of disease control programmes as well as of good hygiene practices, sanitation and disinfection procedures	3	10	10	0	PGDipl. (Distance Learning): Veterinary Public Health – Control of food Safety(2 days) Surveilance & Investigation of Animal Health (4 days) Defra HPAI project (4 days)	PGDipl. (Distance Learning): Veterinary Public Health – <i>Control of food Safety</i>	MSc: Surveillance of Animal Health & Production Epidemiology & Control of (PGDipl. (Distance Learning): Surveillance & Investigation of Animal Health	Application through HPAI project	See Part V- Food safety placement
Intervention studies and decision support modelling	2	5	5	0	MSc: Modelling & Dynamics of Infectious diseases (2 days) Extended Epidemiology (2 day) MSc: Epi & Control of Communicable Disease module (1 day)	f f	MSc:	MSc: Modelling & Dynamics of Infectious diseases Application through HPAI project	
Application of animal health economics (e.g. disease loss estimations, cost- benift calculations) decision support modelling, decision tree analysis	4	15	15	0	PODIAL (Distance Learning): Epidemiology & Animal Health Economics — The Use of Economic Tools in Veterinary epidemiology (4 days) MSc: Animal Health Econimcs course & economic aspects of scenario tree work (11 days).	PGDipl. (Distance Learning): Epidemiology & Anima Health Economics – The Use of Economic Tools in Veterinary epidemiology		MSc: Animal Health economics	See Part V: DEFRA cost-benefit analysis of surveillance systems

	0	10	10				140		
policy makers, EU and national legislation regarding animal health and	3	10	10	U	VLA placement (3 days) Defra HPAI project (2 days) OIE placement (5 days)		MSC:	EFSA, SCFCAH and DGSANGO websites	cost-benefit analysis of surveillance
welfare, as well as public health and					Ore placement (5 days)			assisted by supervisor	systems
Tood safety.	e	20	20	0	VI A placement (10 dous)	PCDial (Distance		MCa	See Part V UDA
diagnostics and control of infectious	0	20	20	U	VLA placement (10 days)	PGDIpi. (Distance		MSC:	placement
and non-infectious diseases of livestock					MSc: Epi & Control of	Veterinary Public Health -	MSc course element 3	Applied Risk Assessment &	platoment
populations, either monofactorial or					Communicable Disease module	Control of food Safety		Management	
multifactorial in nature (specifically					(5 days)				
including zoonoses originating from					Al Scenario free work (5 days)				
infections which can be row opimal							MSc:	Application through HPAI	
product and/or food borne)								project	
,							Surveillance of Animal		
							Health & Production	Self directed study	
								assisted by supervisor	
							PGDipl. (Distance		
							Learning):		
							of Animal Health		
							or / minut ridulin		
Hazard identification - recognition and		shared with	shared with above			PGDipl. (Distance	MSc:	Self directed study	See Part V- HPA
workings of disease problems as they		above				Learning): Veterinary Public Health	Surveillance of Animal	assisted by supervisor	attachment
to the discipline: outbreak investigation.						Principles of Veterinary	Health & Production		
······································						Public health			
							Pa Diploma module 4		
							r g Diploma module 4		
							See Part III- DEFRA		
							project on European Al		
							outbreaks		
Design, implementation and evaluation	6	20	20	0	VLA placement (20 days)	PGDipl. (Distance	MSc:	Application through HPAI	See Part V- DEFRA
of monitoring and surveillance systems						Learning):		project	cost-benefit analysis
regarding animal diseases (including						Veterinary Public Health -	Surveillance of Anima	1	of surveillance
zoonoses and tood-borne diseases)						Current Issues in	mealth & Production		systems
						votermary PUDIC Health			
							L		
							PGDipl. (Distance		
							Learning): Surveillance & Investigation		
							of Animal Health		
							- / VININA I ROCIUI		
Principles and applications of tracking		shared with	shared with above			PGDipl. (Distance	MSc:	Application through HPAI	
and trading of animal diseases		above				Learning): Veterinary Public Heatth	Surveillance of Animal	project	
diseases)						Current Issues in	Health & Production		
,						Veterinary Public Health			
						,		0-#	
								Self directed study	
							PGDipl. (Distance	assisted by supervisor	
							Learning):		
							Surveillance & Investigation		
							of Animal Health		
							VLA AI project		
Concepts, principles and applications of	2	5	2.5	2.5	PGDipl. (Distance Learning):	PGDipl. (Distance			Self directed study
pre-narvest quality management						Learning):			assisted by supervisor
programmes (including good manufacturing practice codes HACCP									
total quality management, ISO)					Veterinary Public Health -	Veterinary Public Health -	MSc:		
······					Control of Food Safety (2 days)	Control of Food Safety			
					MSc: Quality Assurance Systems		Public Health Lecture		
					seminar (0.5 day)		Series		
Part III - advanced level subspeciality	36	145	145	0			MSc:	Optional units on MSc not	
modules (36 ECTS points)								undertaken during previous	
								course of study	
								MSc research project	
Further aetiology, epidemiology,					MSc:			Consisting of approx. 6	
diagnostics and control of infectious					Advanced Statistical Methods in			weeks research and 2	
and non-infectious diseases of livestock					Veterinary Epidemiology (15			weeks write up time. Topic	
populations, either monofactorial or					days)			could follow on from VLA	
including zooposes originating from								avian disease work or HPAI project	
livestock populations and those								projoor	
infections which can be raw animal									
product and/or food borne)									
				1			1	1	1
Design implementation and evaluation					VI A placement (65 days)				
of monitoring and surveillance systems					. pillet				
regarding animal diseases (including					AI Scenario tree project (40days)				
zoonoses and food-borne diseases)									
					MSc project- targeting BVD				
					surveillance (25 days)				
Part IV - research element (36 ECTS	36	145	116	29	Defra Housing Order project (50			HPAI Project (main project	
points)	-	-			days)			- duration appox. 30 weeks.	
								see above)	
					Housing Order project (66 douc)			Fieldwork to commonos	
					i county order project (oo days)			September 2008	
Part V – elective elements (18 ECTS	18	75	63.5	11.5	OIE placement (35 days)				Attend elements of
points)									Norwegian School of
		1		1			1	1	Veterinary Science
				1				1	.,
					MSc project, toracting DVD				
					MSc project- targeting BVD superillance (18.5 days)				
					MSc project- targeting BVD surveillance (18.5 days) AI Scenario tree project (10				2 month placement to
					MSc project- targeting BVD surveillance (18.5 days) Al Scenario tree project (10 days)				2 month placement to HPA to gain
					MSc project- targeting BVD surveillance (18.5 days) Al Scenario tree project (10 days)				2 month placement to HPA to gain experience of risk
					MSc project- targeting BVD surveillance (18.5 days) Al Scenario tree project (10 days)				2 month placement to HPA to gain experience of risk assessment with
					MSc project- targeting BVD surveillance (18.5 days) Al Scenario tree project (10 days)				2 month placement to HPA to gain experience of risk assessment with regard to public health
					MSc project- targeting BVD surveillance (18.5 days) Al Scenario tree project (10 days)				2 month placement to HPA to gain experience of risk assessment with regard to public health
					MSc project- targeting BVD surveillance (18.5 days) Al Scenario tree project (10 days)				2 month placement to HPA to gain experience of risk assessment with regard to public health DEFRA placement to
					MSc project- targeting BVD surveillance (18.5 days) Al Scenario tree project (10 days)				2 month placement to HPA to gain experience of risk assessment with regard to public health DEFRA placement to gain experience within
					MSc project- targeting BVD surveillance (18.5 days) Al Scenario tree project (10 days)				2 month placement to HPA to gain experience of risk assessment with regard to public health DEFRA placement to gain experience within economics relating to
					MSc project- targeting BVD surveillance (18.5 days) Al Scenario tree project (10 days)				2 month placement to HPA to gain experience of risk assessment with regard to public health DEFRA placement to gain experience within economics realing to the cost-benefit analysis
					MSc project- targeting BVD surveillance (18.5 days) Al Scenario tree project (10 days)				2 month placement to HPA to gain experience of risk assessment with regard to public health DEFRA placement to gain experience within economics relating to the cost-benefit analysis of analysis of avrveillance systems
					MSc project- targeting BVD survellance (LS days) Al Scenario tree project (10 days)				2 month placement to HPA to gain experience of risk assessment with regard to public health DEFRA placement to gain experience within economics relating to the cost-benefit analysis of surveillance systems
					MSc project- targeting BVD surveillance (18.5 days) Al Scenario tree project (10 days)				2 month placement to HPA to gain experience of risk assessment with regard to public health DEFRA placement to gain experience within economics relating to the cost-benefit analysis of surveillance systems Exuther electron to the
					MSc project- targeting BVD survellance (18.5 day) Al Scenario tree project (10 days)				2 month placement to HPA to gain experience of risk assessment with regard to public health DEFRA placement to analysis of surveillance systems Further electives to be decided
Totals	184	685	632	53	MSc project- targeting BVD surveiltance (145 days) Al Scenario tree project (10 days)				2 month placement to HPA to gain experisment with regard to public with DEFRA placement to gain experience within economics relation the cost-benefit analysis of surveillance systems Further electives to be decided

days done

days remaining