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FACULTY OF VETERINARY
SCIENCE, UNIVERSITY OF
ZIMBABWE

VETERINARY EDUCATION AND
CURRICULUM DEVELOPMENT

PRESENTER: THOKOZANI HOVE



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Faculty of Veterinary Science (UZ)

- Inaugurated in 1982 with teaching in other fac (Agric, Medicine, Science)
- EC constructed faculty
- Equipped by Australian & British govts & occupied in 1985
- Facilities are very good & include:
 - Teaching hospital
 - Supporting labs (Clin. Path, Radiology, Pathology, Microbiology, Parasitol, etc)
 - Mobile clinic to provide ambulatory service

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Training offered

- Undergraduate degrees
 - Bachelor of Veterinary Science (BVSc)
 - Diploma in Veterinary Nursing (DVN)(since 2003)
- Postgraduate degrees
 - Taught Masters (10 plus)
 - MPhil/DPhil by research
- Short courses & Continuing education

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BVSc degree

- Duration: 5 yr
- Entry requirements
 - 'A' level passes in:
 - Until 1995/96 : Chemistry & at least 2 of the following: Biology, Maths & Physics
 - Since 1996/97: Biology & Chemistry plus at least 1 other science subject
 - Point system used (e. g. 2008: female: 12 male 10)
 - Mature entry
 - Higher National Diploma in Animal Science plus relevant experience

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BVSc degree

- Special Entry
 - Relevant BSc degree obtained after "O" level (level of most regional applicants)
- Veterinary Science Bridging Curriculum(NEW)
 - For prospective regional BVSc candidates (4 - 6 months)
 - Necessitated by no. of regional applicants who fall short of entry requirements
- 'O' Level English Language a requirement

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BVSc Curriculum

- Courses administered under these 3 dept:
 - Preclinical, Paraclinical & Clinical
- Term: 15 wk
- Teaching: Lecturers/Tutorials, Practicals/Hands -on
- Professional exams [Continuous assessment, Theory paper(s) & Oral]
- Compulsory certified 3-mo extra-mural practical at a Vet. establishment for every student as from Yr 3
- Rest of UZ semesterised but Vet. Science & Medical school are not

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BVSc Curriculum

- Wholly practical final year (as from 1996)
- 7 courses each with a 6-wk clerkship rotation [Total: 42 wk (21 wk/term)]
- Weekly 2-hr case presentations
- Final year project: Oral presentation & Dissertation)
- Professional exams: Continuous assessment & Practical cum Oral

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BVSc curriculum (prior to 1999)

- Program divided into 5 parts (part equiv to academic yr)
 - Parts (Yr) I & II (Preclinical)
 - Part III (Paraclinical)
 - Parts IV & V (Clinical)
- Professional examinations at each yr end

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Current BVSc curriculum (1999)

- Result of stakeholder consultations & visitation report from Council of Vet. Surgeons
- Minimises duplication
- Duration still 5 yr but professional examinations at end of each part (4) instead of end of every yr (5)
 - Part I (Yr 1 Terms 1 & 2, Yr 2 Term 1) [18 mo]: Preclinical
 - Part II (Yr 2 Term 3 & Yr 3 Terms 1 & 2 (18 mo): Paraclinical
 - Part III (Yr 4 Terms 1 & 2): Clinical
 - Part IV (Yr 5 Terms 1 & 2): Clinical

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Current BVSc curriculum (from 1999)

- Introduction of new courses
 - Behaviour and handling of animals (Yr 1 Term 2)
Assessment: Practical cum oral exam
 - Communication skills (Yr 1 Terms 1 & 2)
Assessment: Continuous assessment & 2-hr paper
Only course that can be carried over but should be cleared in Yr 3
 - Applied business management (Yr 5 Term 1)
 - Veterinary Jurisprudence, & Regulatory Control of Veterinary Medicinal Products (Yr 5 Term 1)
Assessment: Written paper

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BVSc intake

Year	No.
2003	42
2004	42
2005	39
2006	34
2007	41
2008	23

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BVSc graduates

Year	No.	Year	Nos
1986	11	1998	22
1987	8	1999	23
1988	18	2000	36
1989	13	2001	14
1990	14	2002	22
1991	24	2003	23
1992	28	2004	18
1993	20	2005	12
1994	15	2006	30
1995	30	2007	16
1996	18	2008	23
1997	23	2009	nil
Subtotal	222	Subtotal	239

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Diploma in Veterinary Nursing (DVN)

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- > Demand-driven
- > Inaugurated 2003
- > Entry requirements
 - Min. 5 "O" level passes inclusive of Biology & English Language
 - Each candidate has to be attached to a registered Vet. Practice, which provides a recommendation letter at application, for duration of study

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DVN

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- > Initially offered as 3 yr part-time
- > Due to demand, offered as 2 yr full-time as from 2005
- > Housed in clinical dept. but taught across the depts
- > Comprises 9 courses
- > Professionals exams at the end of each part
- > Requirement to pass all Part I exams to proceed to Part II

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DVN

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Courses	LECTURE (HR)	PRACTICAL (HR) (Minimum)
Anatomy & Physiology	85	75
Animal Husbandry	35	75
First Aid	35	50
Basic Hospital Practice & Management	35	50
First Professional Exams		
General Nursing	35	50
Diagnostic Aids	45	50
Obstetric & Pediatric Nursing	25	50
Medical Nursing	45	75
Surgical Nursing	45	75
Second Professional Exam		

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DVN

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- > Practical Book issued at enrolment: records of attachment time at selected practice & fac. hosp
- > Professional exam comprising :
 - Continuous Assessment (25 %)
 - Theory paper (35 %)
 - Practical Paper (30 %)
 - Oral (10 %)

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DVN graduates

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- > 2005: 13
- > 2006: 12
- > 2007: 18
- > 2008: 12

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Taught Masters

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- > MSc/MVSc (in the various disciplines)
- > Entry requirement:
 - 1st degree with 2.1 or better in relevant area
 - Entry test (if fall short of requirement)
- > Duration: 2 yr full-time
- Taught part
- Research project (Oral defence & submission of a dissertation)

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Taught Masters

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- Most successful
 - ▢ Regional thrust
- MSc/Diploma in Tsetse & Trypanosomosis Control (funds EU)
 - (3 yr part-time) (10 graduates)
- MSc in Dairy Science & Technology (funds EU/SADC)
 - Inaugural group (2008/2010)
 - 11 registered
 - ▢ Interdisciplinary (with medical school) funds Govt
- MSc/MVSc in Physiology (4 graduates)
- MSc/MVSc in Anatomy (3 graduates)

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MPhil/DPhil

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- Done by research in area of interest
- Entry requirements: as for Masters plus evidence of availability of funding, appropriate facilities & supervision

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Continuing Education

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- Clinical evenings/afternoon
- Organised in conjunction with profession: ZVA, Council
- Seminars
- Locals engaged in research
- Visiting lecturers/prof
- Short courses

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Challenges (last 10 yr)

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- Low staff moral
- Inability to retain & attract qualified teaching staff
- 17 out of establishment of 46 (+3)
- Only 7 DPhil (3 permanent/1 retired/1 part-time/2 visiting) Preclinical Dept none
- No budget for operations, infrastructure maintenance & equipment maintenance & purchase
- Institution ineligible as recipient for most research & other international funds
- Ability to administer postgraduate compromised
- No undergraduate teaching 2008/9 hence no graduates in 2009
- For the local student: hard currency fees
- Local: USD 574/term(excludes accommodation)
- (Regional/International: USD 2500-00/term)

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Way forward

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- Faculty re-opened for students August 2009
- To fill in the teaching gaps by
 - Part-time teaching by qualified colleagues in the local profession
 - Short-term teaching visits from the region/abroad
- Actively seek funds to support faculty activities
- Strengthening regional collaboration

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THANK YOU!

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BVSc curriculum (prior to 1999)

PRECLINICAL COURSES	Contact hr/course	Total contact hr
Part 1 (Year 1)		
Vet. Anatomy	240	
Vet. Physiology	141	
Vet. Biochem	127	508
Professional Exams		
Part 2 (Year 2)		
Vet. Anatomy	177	
Vet. Physiology	81	
Vet. Biochem	24	
Animal Husbandry I	140	422
Professional exams		

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BVSc curriculum (prior to 1999)

PARACLINICAL COURSES	Contact hr/course	Total contact hr
Part III (Year 3)		
Vet. Microbiology	160	
Vet. Immunology	60	
Vet. Parasitology	120	
Vet. Pharmacology & Toxicology	120	
Animal Husbandry II	120	820
Professional exams		

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BVSc Curriculum (prior to 1999)

CLINICAL COURSES	Contact hr/course	Total contact hr
Year IV		
Clinical Med, Gen. Surgery, Anaesthesia & Radiology	130	
Disorders of Alimentary tract & Pancreas	110	
Disorders of Homopoeitic, Cardiovascular & Resp. Systems	100	
Disorders of skin, ear, eye, nervous & urinary systems	180	
Obstetrics & Udder Health	100	
Reproduction & Endocrine disorders	100	830
Professional Exams		

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BVSc Curriculum (prior to 1999)

CLINICAL COURSES	Lecture	Total contact hr
Year V		
Preventive Medicine, Epidemiol. & Public Health	150	
Diseases of Ruminants	290	
Diseases of Pigs, Poultry & Rabbits	100	
Diseases of Companion Animals	180	
Student projects & Guest Lectures	30	750
Professional Exams		

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Revised BVSc Curriculum (Part I)

Course	Lecture/Tutorial (1 hr)	Practical (3 hr)	Contact hr
Yr 1, Term 1			
Vet. Anatomy	103	47	
Vet. Physiology	60	7	
Vet. Biochemistry	57	7	
Communication skills	18	-	298
Yr 1, Term 2			
Vet. Anatomy	73	23	
Vet. Physiology	110	11	
Vet. Biochemistry	35	4	
Behaviour & handling of animals	18	14	
Communication skills	16	-	304

Examination: Behaviour & handling of animals (Practical cum Oral)

Revised BVSc Curriculum (Part I)

Course	Lecture/Tutorial (1 hr)	Practical (3 hr)	Contact hr
Yr 2, Term 1			
Vet. Anatomy	39	15	
Vet. Physiology	44	5	
Animal Nutrition	50	18	
Communication skills	14	-	231
Examination Communication skills			
First Professional exams			

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Revised BVSc Curriculum (Part II)

31	Course	Lecture/ Tutorial (1 hr)	Practical (3 hr)	Contact hr
	Yr 2, Term 2			
	Animal Husbandry (Genetics)	56	14	
	Animal Husbandry (Biometrics/Computers)	56	6	
	Principles of Vet. Microbiology and Immunology	35	7	
	Principles of Vet. Parasitology	35	7	
	Vet. Pathology	35	7	
	Vet. Pharmacology & Toxicology	28	8	336
	Yr 3, Term 1			
	Animal Husbandry (Production/Management)	42	8	
	Vet. Microbiology & Immunology	84	16	
	Vet. Parasitology	56	14	
	Vet. Pathology	56	14	

Revised BVSc Curriculum (Part II)

32	Course	Lecture/ Tutorial (1 hr)	Practical (3 hr)	Contact hr
	Yr 3, Term 2			
	Animal Husbandry (Production/Management) †	40	6	
	Vet. Microbiology & Immunology†	33	10	
	Vet. Parasitology†	33	9	
	Vet. Pathology†	34	11	
	Vet. Pharmacology & Toxicology†	30	3	336
	Intro Epidemiol, Herd Health & Production Management, Diseases of Wildlife	25	-	
	General Surgery, Anaesthesia & Radiology	20	5	
	Second Professional Exam†			

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Revised BVSc Curriculum (Part III)

33	Course	Lecture/T utorial (1 hr)	Practical (3 hr)	Contact hr
	Yr 4, Term 1			
	Gen. Surgery, Anaesthesia & Radiology	62	15	
	Small Animal Medicine & Surgery	64	8	
	Equine Medicine & Surgery	18	3	
	Ruminant Medicine & Surgery	64	6	
	Porcine & Poultry Medicine	30	3	
	Epidemiol, Herd Health & Prod. Management, Diseases of Wildlife	28	4	
	Public Health & Clin. Pathology	40	10	
	Theriogenology	46	15	416

Revised BVSc Curriculum (Part III)

34	Course	Lecture/Tutorial (1 hr)	Practical (3 hr)	Contact hr
	Yr 4, Term 2			
	Small Animal Medicine & Surgery	56	12	
	Equine Medicine & Surgery	28	7	
	Ruminant Medicine & Surgery	65	15	
	Porcine & Poultry Medicine	30	3	
	Epidemiol, Herd Health & Prod. Management, Diseases of Wildlife	70	7	
	Public Health & Clin. Pathology	42	3	
	Theriogenology	39	13	390
	Fourth Professional Exam			

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Revised BVSc Curriculum (Part IV)

35	Course			
	Yr 5 Term 1 only			
	Vet. Jurisprudence, Regulatory Control of Vet. Medicinal Plants			
	Applied Business Management			
	Examinations for the two			
	Yr 5, Terms 1 & 2			
	Clinical Case Presentations			
	Small Animal Medicine Clerkship			
	Large Animal Medicine Clerkship			
	Surgery, Anaesthesia & Radiology Clerkship			
	Herd Health, Theriogenology & Ambulatory Clinic Clerkship			
	Lab. Diagnostic & Pathology Clerkship			