



جامعة شرق إفريقيا
EAST AFRICA UNIVERSITY



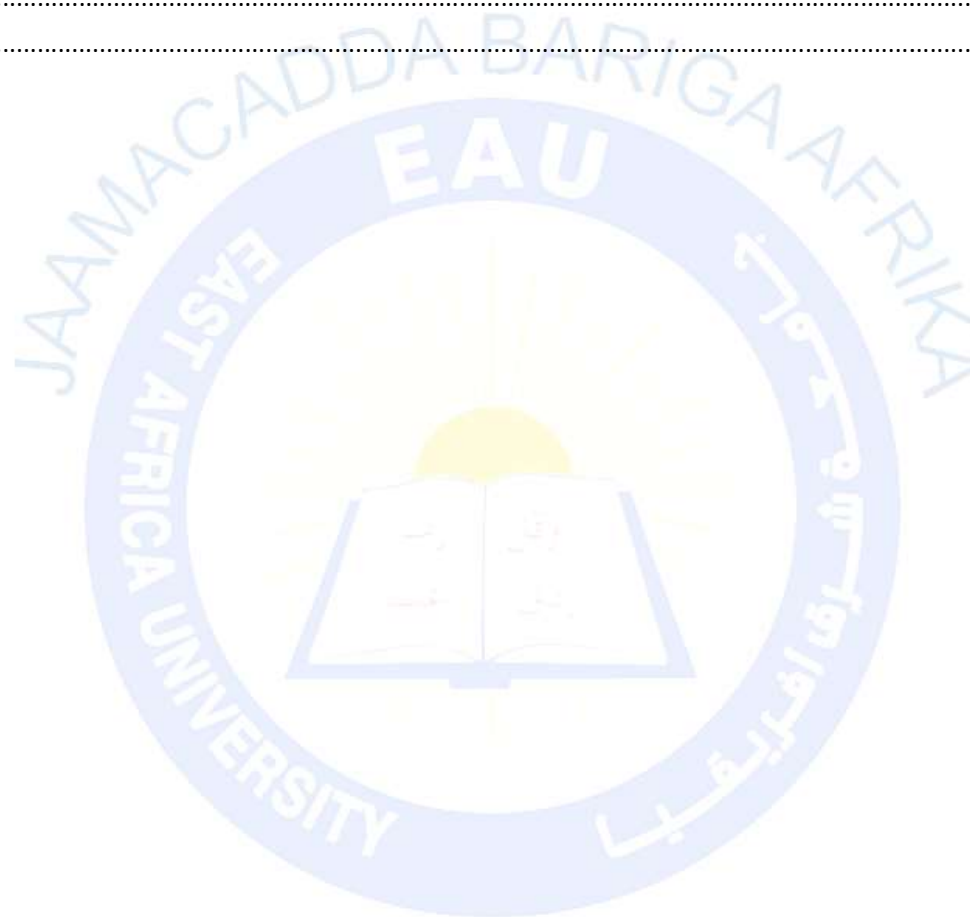
**Department of Curriculum and Development
Office of Academic Affairs**

FACULTY OF AGRICULTURE AND VETERINARY MEDICINE PROGRAMM PLANS

June 2021

Contents

DVM Veterinary Medicine	5
BSc Agriculture	10



Department of Curriculum and Development Office of Academic Affairs

This curriculum plan has been officially approved by the delegates of all East Africa University Branches after reviewing and revising it between 08-11 August 2020 then again revised and reviews between 26-28 June 2021.

Part of our curriculum development policy is to review every two years, starting from the year June 2021.



Prof Abdirizak Mohamud Takar, PhD
Rector
East Africa University



Prof Abdisalam Issa-Salwe, PhD
Vice-Rector
East Africa University



Faculty of Agriculture and Veterinary Science

The Faculty of Agriculture and Veterinary Science offers a range of internationally accredited bachelor of Agriculture and Veterinary Science. Within these programs, there is special attention on issues which are related to the two programs such as the animal husbandry, animal economy, sustainability.

We strengthen our education in the agricultural and animal research, innovation and support results-based on these programs for development through our national research systems.

Our method of teachings also to help prepare professional and technical manpower in animal and veterinary production and related fields such as animal breeding and reproduction, animal nutrition, dairy, poultry, meat and draught animal production.

Our practical and entrepreneurial skill acquisition aspects emphasize hands-on basis. This requires exposure to agricultural enterprises on campus, farms, industries, etc.

Our education is characterized by its clear structure, intensive guidance and enthusiastic teachers, the small scale, interdisciplinary offerings and its strong international orientation benchmarked with some of the higher educational institutions in the world.

The faculty has following programs:

1. DVM Veterinary Medicine,
2. BSc Agriculture



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DVM Veterinary Medicine

Semester One	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite	
	1	ENG-101	English Language Skills	3	0	3	---	
	2	PHY-101	General Physics	3	0	3	---	
	3	MTH-101	Mathematics I	3	0	3	---	
	4	BIO-101	General Biology	3	0	3	---	
	5	VET-101	Introduction to Zoology	3	0	3	---	
	6	VET-103	Veterinary Physiology	3	2	4	---	
							22	
	Session Engagement 1		Topics selected from the tutorial sessions		0	2	0	---
	Total Credit Hours						22	

Semester Two	No.	Course #	Course Title	Lecture	Lab	Credit	Prerequisite
				Hours	Hours	Hours	
	1	ARB-101	Arabic Language	3	0	3	---
	2	ENG-112	English Composition	3	0	3	ENG-101
	3	CHM-101	Chemistry	3	2	4	---
	4	CIS-101	Computer Application	3	2	4	---
	5	VET-112	Animal Husbandry and Production	3	0	3	---
	6	VET-114	Veterinary Anatomy I	3	2	4	---
						21	
Session Engagement 2		Topics selected from the tutorial sessions		0	2	0	---
Total Credit Hours					21		

Semester Three	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite	
	1	ISL-101	دراسات إسلامية: القيم والأخلاق الإسلامية	3	0	3	--	
	2	ENG-103	Communication Skills	3	0	3	ENG-112	
	3	MTH-213	Probability and Biostatistics	3	0	3	MTH-101	
	4	CHM-103	Biochemistry	3	0	3	CHM-101	
	5	VET-211	Veterinary Anatomy and Embryology	3	2	4	VET-114	
	6	VET-213	Animal Genetics and Breeding	3	0	3	----	
							19	
	Session Engagement 3		Topics selected from the tutorial sessions	0	2	0	---	
	Total Credit Hours						19	

Semester Four	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite	
	1	ISL-102	دراسات إسلامية: العقيدة والعبادة	3	0	3	--	
	2	ENG-104	Technical Writing	3	0	3	ENG-103	
	3	VET-220	Veterinary Immunology and Molecular Biology	3	0	3	CHM-103	
	4	VET-222	Histology	3	2	4	VET-211	
	5	VET-224	Veterinary Microbiology	3	2	4	BIO-101	
	6	VET-226	Veterinary Parasitology	3	2	4	VET-211	
						21		
	Session Engagement 4		Topics selected from the tutorial sessions		0	2	0	---
	Total Credit Hours						21	

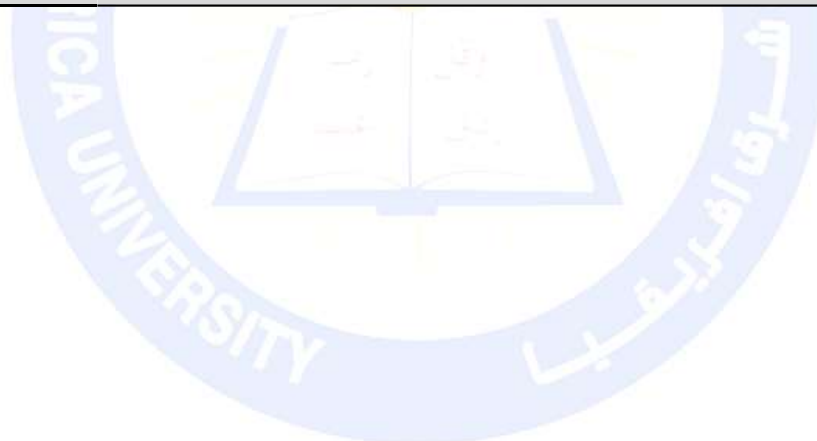
Semester Five	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite
	1	SOM-101	Somali Culture and History	3	0	3	---
	2	VET-311	Poultry and Fish diseases	3	0	3	----
	3	VET-313	Milk and Meat Hygiene	3	0	3	----
	4	VET-315	Veterinary Virology	3	0	3	VET-224
	5	VET-317	Veterinary General Pathology	3	2	4	---
	6	VET-319	Animal Nutrition and Feeding	3	0	3	VET-112
						19	
	Session Engagement 5		Topics selected from the tutorial sessions	0	2	0	---
						19	

Semester Six	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite
	1	VET-320	Veterinary Medicine I	3	2	4	VET-317
	2	VET-322	Veterinary Surgery I	3	2	4	---
	3	VET-324	Veterinary Pharmacology and Therapeutics	3	0	3	---
	4	VET-326	Veterinary Systemic Pathology	3	2	4	VET-317
	5	VET-328	Veterinary Obstetrics and Gynecology	3	2	4	---
	6	VET-332	Principle of Veterinary Epidemiology	3	0	3	---
						22	
	Session Engagement 6		Topics selected from the tutorial sessions	0	2	0	---
	Total Credit Hours					22	

Semester Seven	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite	
	1	VET-476	Research Methodology	3	0	3	---	
	2	VET-464	Animal Welfare and Ethics	2	0	2	---	
	3	VET-411	Animal Infectious Diseases	3	2	4	---	
	4	VET-413	Veterinary Medicine II	3	2	4	VET-320	
	5	VET-415	Veterinary Andrology and Reproductive Biotechnology	3	0	3	VET-328	
	6	VET-417	Veterinary Surgery II	3	2	4	VET-322	
							20	
	Session Engagement 7		Topics selected from the tutorial sessions		0	2	0	---
	Total Credit Hours						20	

Semester Eight	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite
	1	VET-492	Graduation Project	0	3	3	
	2	VET-478	Industrial/ Field Training	0	3	3	VET-413
	3	VET-434	Zoonotic Disease	3	2	4	VET-411
	4	VET-436	Toxicology and Forensic Medicine	3	2	4	VET-324
	5	VET-100	Elective 1	3	0	3	See electives
	6	VET-200	Elective 2	3	0	3	See electives
						20	
	Session Engagement 8		Topics selected from the tutorial sessions	0	2	0	---
	Total Credit Hours					20	

Elective Courses							
Elective Courses	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite
	1	VET-581	Camel and Equine Medicine	3	0	3	----
	2	VET-582	Livestock Extension and Practice	3	0	3	----
	3	VET-583	Public Health and the Role of the Veterinary Profession	3	0	3	----
	4	VET-584	Veterinary Virology	3	0	3	----
	5	VET-585	Animal Structure and Function	3	0	3	----
	6	VET-586	One Health Concept	3	0	3	----
	7	VET-587	Genetic and Cellular Basis of Animal Disease	3	0	3	----
	8	VET-588	Bacteriology and Mycology	3	0	3	----
	9	VET-589	Veterinary Radiology and Ultrasonography	3	0	3	----
	10	VET-591	Special Topics in Veterinary Medicine	3	0	3	----





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BSc Agriculture

Semester One	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite	
	1	ENG-101	English Language Skills	3	0	3	---	
	2	PHY-101	General Physics	3	0	3	---	
	3	MTH-101	Mathematics I	3	0	3	---	
	4	BIO-101	General Biology	3	0	3	---	
	5	VET-101	Introduction to Zoology	3	0	3	---	
	6	AGR-101	Introduction to Agriculture	3	0	3	---	
							18	
	Session Engagement 1		Topics selected from the tutorial sessions		0	2	0	---
	Total Credit Hours						18	
Semester Two	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite	
	1	ARB-101	Arabic Language	3	0	3	---	
	2	ENG-102	English Composition	3	0	3	ENG-101	
	3	CHM-101	Chemistry	3	2	4	---	
	4	CIS-101	Computer Application	3	2	4	---	
	5	VET-112	Animal Husbandry and Production	3	0	3	---	
	6	AGR-124	Plant Morphology and Anatomy	3	0	3	AGR-101	
							20	
	Session Engagement 2		Topics selected from the tutorial sessions		0	2	0	---
	Total Credit Hours						20	

Semester Three	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite	
	1	ISL-101	دراسات إسلامية: القيم والأخلاق الإسلامية	3	0	3	--	
	2	ENG-103	Communication Skills	3	0	3	ENG-102	
	3	MTH-213	Probability and Biostatistics	3	0	3	MTH-101	
	4	CHM-103	Biochemistry I	3	0	3	CHM-101	
	5	AGR-232	Plant Taxonomy	3	0	3	---	
	6	AGR-234	Principles of Crop Production	3	2	4	AGR-101	
							19	
	Session Engagement 3		Topics selected from the tutorial sessions		0	2	0	---
Total Credit Hours						19		

Semester Four	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite	
	1	ISL-102	دراسات إسلامية: العقيدة والعبادة	3	0	3	--	
	2	ENG-104	Technical Writing	3	0	3	ENG-103	
	3	AGR-232	Climatology	3	0	3	---	
	4	AGR-234	Principles of Soil Science	3	2	4	AGR-124	
	5	AGR-236	Principle of Horticulture	3	0	3	AGR-101	
	6	AGR-238	Agricultural Rural Development	3	0	3	---	
							19	
	Session Engagement 4		Topics selected from the tutorial sessions		0	2	0	---
	Total Credit Hours						19	

Semester Five	No.	Course #	Course Title	Lecture	Lab	Credit	Prerequisite
				Hours	Hours	Hours	
	1	SOM-101	Somali Culture and History	3	0	3	---
	2	CIS-104	Principle of Plant Physiology	3	0	3	---
	3	AGR-311	Irrigation and Water Management	3	0	3	AGR-101
	4	AGR-313	Agricultural Entomology	3	0	3	---
	5	AGR-315	Agricultural Microbiology	3	0	3	CHM-103
	6	VET-317	Principle of Agricultural Economics	3	0	3	---
						18	
	Session Engagement 5		Topics selected from the tutorial sessions		0	2	0
					18		

Semester Six	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite	
	1	AGR-318	Climate Smart Agricultural Technology	3	0	3	---	
	2	AGR-330	Farm Power and Machinery	3	0	3	AGR-234	
	3	AGR-332	Agricultural Extension	3	0	3	---	
	4	AGR-334	Plant Pathology	3	0	3	AGR-313	
	5	AGR-336	Principle of Weed Science	3	0	3	---	
	6	AGR-328	Principle of Plant Breeding and Genetics	3	0	3	AGR-313	
							18	
	Session Engagement 6		Topics selected from the tutorial sessions		0	2	0	---
	Total Credit Hours						18	

Semester Seven	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite	
	1	AGR-476	Research Methodology	3	0	3	---	
	2	AGR-464	Agricultural Ethics	2	0	2	---	
	3	AGR-431	Ecology	3	0	3	---	
	4	AGR-433	Irrigation and Water Management	3	0	3	---	
	5	AGR-100	Elective 1	3	0	3	See electives	
	6	AGR-200	Elective 2	3	0	3	See electives	
							17	
	Session Engagement 7		Topics selected from the tutorial sessions	0	2	0	---	
	Total Credit Hours						17	

Semester Eight	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite	
	1	AGR-442	Pasture and Range Management	3	0	3	----	
	2	AGR-492	Graduation Project	0	3	3	AGR-476	
	3	AGR-478	Industrial / Field Training	0	3	3	100 Crd units	
	4	AGR-432	Principle of Food Science and Technology	3	0	3	----	
	5	AGR-300	Elective 3	3	0	3	See electives	
	6	AGR-400	Elective 4	3	0	3	See electives	
							18	
	Session Engagement 8		Topics selected from the tutorial sessions		0	2	0	---
	Total Credit Hours						18	
Accumulative Total Credit Units						139		

Elective Courses							
Elective Courses	No.	Course #	Course Title	Lecture Hours	Lab Hours	Credit Hours	Prerequisite
	1	AGR-481	Principle of Agricultural Marketing	3	0	3	---
	2	AGR-482	Principle of Food Industry	3	0	3	---
	3	AGR-483	Agricultural Survey and Topography	3	0	3	---
	4	AGR-484	Agricultural and Rural Development	3	0	3	---
	5	AGR-485	Soil Fertility and Water Management	3	0	3	---
	6	AGR-486	Agricultural Extension	3	0	3	---
	7	AGR-487	Science of Composting and Compost Use	3	0	3	---
	8	AGR-488	Agri-Business Management and Entrepreneurship	3	0	3	---
	9	AGR-489	Principles of Dairy Sceince	3	0	3	---
	10	AGR-491	Special Topics in Agriculture	3	0	3	---