



S.1.3. The curriculum reflects the local, regional and national development goals as well as the institution's vision and mission.

Master of Science in Animal Science

S.3. The curriculum reflects the local, regional and national development goals as well as the institution's vision and mission.

- **MS Animal Science New Curriculum**

Course No.	Descriptive Title	Lec	Lab	Units
A. CORE COURSES				
MCAgri 01	Methods of Agricultural Research	2	3	3
MFAS 02	Animal Nutrition	2	3	3
MFAS 03	Animal Breeding and Physiology	2	3	3
MFAS 04	Animal Production	2	3	3
*Students will select 2 Animal Science core courses in Courses in addition to MCAgri 601				
Major Courses				
1. Animal Breeding and Physiology				
MMAS 01	Advanced Animal Breeding	2	3	3
MMAS 02	Advanced Animal Reproductive Physiology	2	3	3
MMAS 03	Animal Endocrinology	2	3	3
MMAS 04	Methods in Animal Climatology and Behavior	2	3	3
2. Animal Nutrition				
MMAS 05	Advanced Ruminant Nutrition	2	3	3
MMAS 06	Advanced Monogastric Nutrition	2	3	3
MMAS 07	Recent Advances in Animal Nutrition	2	3	3
MMAS 08	Applied Animal Nutrition	2	3	3
3. Animal Production and Management				
MMAS 09	Advanced Poultry Production and Management	2	3	3
MMAS 10	Advanced Swine Production and Management	2	3	3
MMAS 11	Advanced Large Ruminant Production and Management	2	3	3
MMAS 12	Advanced Small Ruminant Production and Management	2	3	3
MMAS 12	Advanced Dairy Production and Management	2	3	3
B. Allied Major Courses				
MMAS 14	Advanced Feedlot Production and Management	2	3	3
MMAS 15	Advanced Pasture, Fodder Crop Production, Management and Utilization	2	3	3
C. Electives				
MEAS 01	Animal Waste Management and Utilization	2	3	3
MEAS 02	Animal Diseases and Parasitology	2	3	3
MEAS 03	Meat Selection and Grading	2	3	3
* Students need to take all the major courses he/she selected. Moreover, if the student needs one subject to complete the required units of major courses the student may take it from the other allied major courses.				
D. Special Topics				
MSPAS 01	Special Topics	3	0	3
E. Master's Thesis				
MTAS 01	Thesis Writing 1			3
MTAS 02	Thesis Writing 2			3
SUMMARY*				
A. Core/Foundation Courses		6 units		
B. Major Courses		15 units		
C. Elective Courses		6 units		
D. Special Topics		3 units		
E. Comprehensive Exam		---		
F. Master's Thesis		6 units		
Total		36 units		
* Other requirements for graduation				
● Publication in a refereed journal or juried creative work				

- MS Animal Science Old Curriculum

AS601	Methods of Agricultural Research
AS602	Animal Nutrition – Composition, functions and metabolism of various nutrients, nutritive requirements for maintenance, growth, reproduction, lactation and other body functions of farm animals.
AS603	Animal Breeding – Genetics and statistical bases of animal improvement; topics in reproduction, breeding systems and selection, breeding plans for maximum rate of improvement.
AS604	Animal Physiology – General animal physiology with emphasis in circulation, respiration, digestion, metabolism, renal function, endocrinology and nervous system.
AS605	Animal Climatology – The mechanics of thermo-regulation and animal adaptations, thermal stress; the problems associated with the improvement of livestock production in tropical climate.
AS 606	Advance Animal Breeding – Population genetics, estimation and interpretation of genetic parameters in experimental population, selection I Index theory and application, breeding plans for maximum rate of improvement.
AS 607	Artificial Breeding of Farm Animals – Techniques in the artificial breeding of farm animals.
AS 608	Animal Reproductive Physiology – Comparative physiology of reproduction in higher forms of animals; factors involved in fertility; genetic and environmental variations in fertility mechanics.
AS 609	Animal Endocrinology – Anatomy and functional interrelationships of the endocrine glands on vertebrates.
AS 610	Animal Behavior – Deals with domestic animal behavior; its causes and implications for animal care and management.
AS 611	Advanced Ruminant Nutrition
AS 612	Advanced Monogastric Nutrition
AS 613	Recent Techniques in Animal Nutrition
AS 614	Applied Animal Nutrition – Deals with the more applied aspects of feeding and nutrition of ruminant and non-ruminant animals; includes the feedstuffs used by the different species of animals; methods of preparation, processing, formulation and feeding of animals.
AS 615	Advanced Poultry Production and Management – Modern practices and new concepts in commercial swine production.
AS 616	Advanced Swine Production and Management – Modern practices and new concepts in commercial swine production.
AS 617	Advanced Large Ruminant Production and Management – Recent advances in feeding, breeding, classification and other management practices in beef and carabeef production.
AS 618	Advanced Small Ruminant Production and Management –Commercial production of livestock with emphasis on goat (dairy/chevon) and sheep; feeding and management practices on the range and in confinement.
AS 619	Advanced Dairy Production and Management – Recent advances in feedlot operation, feeding and management, marketing of feeder and slaughter stocks.
AS 620	Advanced Feedlot Production and Management – Recent advances in feedlot operation, feeding and management, marketing of feeder and slaughter stocks.
AS 621	Pasture, Fodder Crop Production and Management – Basic principles and practices in the production and utilization of pasture and fodder crops, including natural grasslands, and conservation of forage crops.
AS 622	Advanced Pasture, Food Crop Utilization – Advances in pasture management, nutritional value of forage crops. Classification of pasture grasses and legumes; qualities of forage crops and utilization.
AS 623	Meat Selection and Grading – Advanced techniques in slaughtering and dressing livestock and poultry; meat selection, grading, abattoir management, meat refrigeration, hygienic practices and quality control.
AS 624	Animal Diseases – Advances in the diagnosis, prevention and control of common bacterial, viral, mycotic and metabolic diseases with emphasis in the recognized and emerging diseases of livestock and poultry.
AS 625	Animal Parasitology – Biology and control of parasite commonly affecting farm animals in the Philippines.
AS 690a	Special Problem in Animal Science
AS 690b	Special Topics in Animal Science
AS 699	Graduate Seminar – Recent advances in livestock and poultry production. Breakthrough in animal research related to breeding, nutrition, animal health, processing and handling animal products, thesis outlines and manuscript reporting.
AS 700	Master's Thesis



UNIVERSITY OF SOUTHERN MINDANAO
Kabacan, Cotabato



MASTER OF SCIENCE IN ANIMAL SCIENCE
Curriculum E conformed with CMO No. 15 s. 2019
Effective SY _____

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MFAS 02	Animal Nutrition	2	3	3
MFAS 03	Animal Breeding and Physiology	2	3	3
MFAS 04	Animal Production	2	3	3
*Students will select 2 Animal Science core courses in Courses in addition to MCAGri 401				
Major Courses				
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MMAS 01	Advanced Animal Breeding	2	3	3
MMAS 02	Advanced Animal Reproductive Physiology	2	3	3
MMAS 03	Animal Endocrinology	2	3	3
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MTAS 01	Thesis Writing 1			3
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SUMMARY*	
A. Core/Foundation Courses	6 units
B. Major Courses	15 units
C. Elective Courses	6 units
D. Special Topics	3 units
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F. Master's Thesis	6 units
Total	36 units

* Other requirements for graduation

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* Sample of course syllabus aligned with the curriculum.

UNIVERSITY OF SOUTHERN MINDANAO			
Course Number		Course Title	
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INSTITUTIONAL POLICIES			
Vision	Quality and relevant education for its clientele to be globally competitive, culture sensitive and morally responsive human resources for sustainable development.		
Mission	Help accelerate socio-economic development ^{MS} , promote harmony among the diverse cultures ^{MS} and improve quality of life ^{MS} through instruction, research, extension and resource generation in Southern Philippines.		
Core Values	G-Goodness, R-Responsiveness, E-Excellence, A-Assertion of Right and T-Truth		
USM Quality Policy Statement	<p>The University of Southern Mindanao, as a premier university, is committed to provide quality instruction, research development and extension services and resource generation that exceed stakeholders' expectations through the management of continual improvement efforts on the following initiatives.</p> <ol style="list-style-type: none"> 1. Establish key result areas and performance indicators across all mandated functions; 2. Implement quality educational programs; 3. Guarantee competent educational service providers; 4. Spearhead need-based research outputs for commercialization, publication, patenting, and develop technologies for food security, climate change mitigation and improvement in the quality of life; 5. Facilitate transfer of technologies generated from research to the community for sustainable development; 6. Strengthen relationship with stakeholders; 7. Sustain good governance and culture, sensitivity; and B. Comply with customer, regulatory and statutory requirements. 		
Goals of the College	Assumes a prime role in pursuing a culture of excellence in agricultural instructions research, extension, and production activities. It endeavors to train morally upright men and women who will be leaders in various field of agricultural education, science, and technology.		
Department Objectives	Produce quality graduates with managerial, entrepreneurial and research skills who are able to find innovative solutions to problems besetting the livestock and poultry industry.		

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Message



The Regional Development Plan (RDP) 2017-2022, translates the 0 to 10 Socioeconomic Agenda of the Duterte Administration into specific regional strategies that shall guide SOCCSKSARGEN's development directions in the next six years. The RDP also espouses the pillars of the Philippine Development Plan (PDP) 2017-2022 which are *Malasakit* (Enhancing the Social Fabric), *Pagbabago* (Inequality-Reducing Transformation) and *Patuloy na Pag-unlad* (Increasing Growth Potential). The SOCCSKSARGEN RDP likewise serves as a foundation plan for the next three (3) administrations (e.g., 2023-2028, 2029-2034, 2035-2040)

toward the fulfillment of *AmBisyon Natin 2040*.

The plan formulation process commenced upon the approval of the RDP Guidelines through RDC XII Resolution No. 66, Series of 2016. This was followed by the designation of the RDC XII Sectoral Committees as Regional Planning Committees (RPC), responsible for drafting, refining and endorsing specific chapters assigned to these bodies. Thereafter, several workshops were conducted to come-up with the draft RDP for the RDC XII Full Council's approval. During its 54th Regular Meeting, RDC XII passed Resolution No. 77, Series of 2016, approving the SOCCSKSARGEN RDP, 2017-2022. On 20 January 2017, the four (4) RPC Chairpersons convened to further ensure internal consistency among the plan's 21 chapters. Similarly, the RDP underwent a peer review process to check Region XII's role vis-à-vis the development of Mindanao, as well as SOCCSKSARGEN's contribution to national development goals.

From the assessment phase to its finalization, the RDP is a development blueprint fostered by stakeholders' participation and ownership, transparency, and relevance to pro-actively address development issues and challenges through its dynamic outcomes to attain poverty reduction with inclusive growth by the end of the planning period.

In behalf of the RDC XII, let me express our gratitude to all development partners for tirelessly participating in all planning activities. It is expected that all government entities, the private sector, civil society organizations, academe and the general public shall promote the RDP's strategies to achieve the potentials of the SOCCSKSARGEN Region.



RONNEL C. RIVERA
Chairperson, RDC XII, and
Mayor, General Santos City

15 March 2017



PHILIPPINE DEVELOPMENT PLAN

2023 - 2028

