

CURRICULAR GRID OF COLLEGE IN ANIMAL SCIENCE 2008

1st Semester						
Code	Compulsory Courses	Pre-requisite	Credit Units			Time Duration
		Course	Class	(hours)	Tot.	Time
ZAB0113	Mathematics applied on Biosciences	---	4	0	4	60
ZAB0114	Zoology applied to Animal Science	---	4	0	4	60
ZAB0116	Introduction to Computer Technology	---	3	0	3	45
ZAB0117	Principles of Scientific Methodology	---	1	1	2	45
ZAB0132	Basic Immunology	---	3	0	3	45
ZAB0133	Cellular and Development Biology	---	3	0	3	45
ZAB0231	Chemistry	---	2	0	2	30
ZAZ0111	Introduction to Animal Science	---	2	0	2	30
<b>Subtotal</b>			<b>22</b>	<b>1</b>	<b>23</b>	<b>360</b>

2st Semester						
Code	Compulsory Courses	Pre-requisite	Credit Units			Time Duration
		Course	Class	(hours)	Tot.	Time
ZAB0122	Botany applied on Animal Science	---	4	0	4	60
ZAB0124	Microbiology in Animal Production	---	6	0	6	90
ZAB0126	Physics Applied to Animal Science	ZAB0113	4	0	4	60
ZAB0134	Domestic Animals Anatomy	---	4	0	4	60
ZAB0135	Domestic Animals Histology	ZAB0133 <sup>rf</sup>	4	0	4	60
ZAB0230	Statistics I	ZAB0113	3	0	3	45
ZAB0232	Biochemistry	ZAB0231	6	0	6	90
<b>Subtotal</b>			<b>31</b>	<b>0</b>	<b>31</b>	<b>465</b>

3 st Semester						
Code	Compulsory Courses	Pre-requisite	Credit Units			Time Duration
		Course	Class	(hours)	Tot.	Time
ZAB0214	Animal Physiology	ZAB0135 ZAB0232	8	0	8	120
ZAB0216	Statistics II	ZAB0230	4	0	4	60
ZAB0217	Vegetable Physiology	ZAB0122 ZAB0232	4	0	4	60
ZAB0218	Parasitology in Animal Production	ZAB0114 ZAB0132 ZAB0134	4	0	4	60
ZAZ0210	Soils	ZAB0231	4	0	4	60
ZAZ0213	Bromatology	ZAB0231	4	0	4	60
ZAZ0218	Draw and Farm Building	ZAB0126	5	0	5	75
<b>Subtotal</b>			<b>33</b>	<b>0</b>	<b>33</b>	<b>495</b>

4 st Semester						
Code	Compulsory Courses	Pre-requisite	Credit Units			Time Duration
		Course	Class	(hours)	Tot.	Time
ZAB0223	Animal Health Practices	ZAB0124 ZAB0214 ZAB0218	6	0	6	90
ZAB0226	Ecology	ZAB0114 ZAB0122	4	0	4	60
ZAB0229	Experimental Statistics	ZAB0216	4	0	4	60
ZAZ0219	Soil Fertilization and Fertility	ZAZ0210	4	0	4	60
ZAZ0222	Animal Nutrition	ZAB0214 ZAZ0213	6	0	6	90
ZAZ0228	Animal Reproduction	ZAB0214	5	0	5	75
ZAZ0330	Beekeeping	ZAB0114 ZAB0122	3	0	3	45
<b>Subtotal</b>			<b>32</b>	<b>0</b>	<b>32</b>	<b>480</b>

5 st Semester						
Code	Compulsory Courses	Pre-requisite	Credit Units			Time Duration
		Course	Class	(hours)	Tot.	Time
ZAB0215	Basic Genetics and Evolution	ZAB0135 ZAB0232	4	0	4	60
ZAZ0311	Feed, Pro-nutrients and by-products in Animal Feeding	ZAZ0222	3	0	3	45
ZAZ0312	Economical Analysis in Agribusiness	ZAB0113	4	0	4	60
ZAZ0313	Forage Production I	ZAZ0219	3	0	3	45
ZAZ0314	Farming Mechanization	ZAB0126 ZAZ0210	4	0	4	60
ZAZ0316	Agrometeorology	ZAB0126	3	0	3	45
ZAZ0317	Rural Sociology	---	4	0	4	60
<b>Subtotal</b>			<b>25</b>	<b>0</b>	<b>25</b>	<b>375</b>

6 st Semester						
Code	Compulsory Courses	Pre-requisite	Credit Units			Time Duration
		Course	Class	(hours)	Tot.	Time
ZAB0470	Animal Genetic Improvement Methods	ZAB0215 ZAB0229	4	0	4	60
ZAZ0321	Non-ruminant Feeding and Feed formulation	ZAZ0311	3	0	3	45
ZAZ0322	Ruminants Feeding and Feed Formulation	ZAZ0311	3	0	3	45
ZAZ0326	Morphological Type and Judging	ZAZ0222 ZAZ0228	4	0	4	60
ZAZ0328	Forage Production II	ZAZ0313	4	0	4	60
ZAZ0331	Animal Biometeorology	ZAB0214 ZAZ0316	3	0	3	45
ZAZ0332	Fish Production	ZAB0226	3	0	3	45
ZAZ0428	Rural Extension and Communication	ZAZ0317	4	0	4	60
<b>Subtotal</b>			<b>28</b>	<b>0</b>	<b>28</b>	<b>420</b>

7 st Semester						
Code	Compulsory Courses	Pre-requisite	Credit Units			Time Duration
		Course	Class	(hours)	Tot.	Time
0740013	College Conclusion Paper I	ZAB0117 ZAZ0321 ZAZ0322 ZAZ0326 ZAZ0328 ZAZ0331 ZAZ0332 ZAZ0428	1	2	3	75
ZAB0481	Applied Animal Genetic Improvement	ZAB0470	4	0	4	60
ZAZ0416	Agribusiness Management and Marketing	ZAZ0312	4	0	4	60
ZAZ0472	Buffalo Production	ZAZ0322 <sup>rr</sup>	4	0	4	60
ZAZ0476	Beef Cattle Production	ZAZ0312 <sup>rr</sup> ZAZ0322 <sup>rr</sup> ZAZ0328 <sup>rr</sup>	4	0	4	60
ZAZ0477	Dairy Cattle Production	ZAZ0322 ZAZ0328	4	0	4	60
ZAZ0484	Poultry Production	ZAZ0218 ZAZ0228 ZAZ0321	5	0	5	75
<b>Subtotal</b>			<b>26</b>	<b>02</b>	<b>28</b>	<b>450</b>

8 st Semester						
Code	Compulsory Courses	Pre-requisite	Credit Units			Time Duration
		Course	Class	(hours)	Tot.	Time
ZAZ0417	Animal Products Industrialization	ZAB0113 ZAB0116 ZAB0124 ZAB0232	5	0	5	75
ZAZ0420	Pig Production	ZAZ0218 ZAZ0228 ZAZ0321	5	0	5	75
ZAZ0422	Equine Production	ZAZ0321 ZAZ0326	4	0	4	60
ZAZ0426	Undertake and Projects in Agribusiness	ZAZ0416	4	0	4	60
0740014	College Conclusion Paper II ( <i>annual scourge - 8th and 9th semesters</i> )	0740013	1	3	4	105
<b>Subtotal</b>			<b>19</b>	<b>3</b>	<b>22</b>	<b>375</b>

9 st Semester						
Code	Compulsory Courses	Pre-requisite	Credit Units			Time Duration
		Course	Class	(hours)	Tot.	Time
0740011	Supervised Internship Program or Research Work	Todas as Obrigatórias	2	14	16	450
<b>Subtotal</b>			<b>2</b>	<b>14</b>	<b>16</b>	<b>450</b>
<b>TOTAL</b>			<b>218</b>	<b>20</b>	<b>238</b>	<b>3870</b>

4 th Semester						
Code	Elective Course	Pre-requisite	Credit Units			Time Duration
		Course	Class	Assig.	Tot.	(hours)
ZAB0021	Marine Products Technology	ZAB0124	3	0	3	45
<b>Subtotal</b>			<b>3</b>	<b>0</b>	<b>3</b>	<b>45</b>

5 th Semester						
Code	Elective Course	Pre-requisite	Credit Units			Time Duration
		Course	Class	Assig.	Tot.	(hours)
ZAB0050	Use of statistical packages in experimental data analysis	ZAB0229	3	0	3	45
ZAZ0033	Fertilizers and Manuring	ZAZ0219	3	0	3	45
ZAZ0038	Sylvan Animals Production and Preservation	ZAB0226	4	0	4	60
<b>Subtotal</b>			<b>10</b>	<b>0</b>	<b>10</b>	<b>150</b>

6 th Semester						
Code	Elective Course	Pre-requisite Course	Credit Units			Time Duration (hours)
			Class	Assig.	Tot.	
ZAZ0034	Agricultural Machines Maintenance	ZAZ0314	2	0	2	30
ZAZ0039	Conservation and Planning of Land Use	ZAZ0219 ZAZ0316	3	0	3	45
ZAZ0060	Alternative Animal Production	ZAZ0222	3	0	3	45
ZAZ0061	Ostrich Production	ZAZ0311 <sup>rf</sup>	2	0	2	30
ZAZ0329	Irrigating	ZAB0217 ZAZ0316	3	0	3	45
<b>Subtotal</b>			<b>13</b>	<b>0</b>	<b>13</b>	<b>195</b>

7 th Semester						
Code	Elective Course	Pre-requisite Course	Credit Units			Time Duration (hours)
			Class	Assig.	Tot.	
ZAZ0041	Advanced Techniques on Animal Feed Formulation	ZAZ0321 ZAZ0322	2	0	2	30
ZAZ0047	Ethology	ZAZ0331	3	0	3	45
ZAZ0049	Applied Animal Nutrition	ZAZ0222	4	0	4	60
ZAZ0070	Carnivorous Animals Nutrition and Feeding	ZAZ0222	3	0	3	45
ZAZ0425	Rabbit Production	ZAZ0218 ZAZ0228 ZAZ0321	3	0	3	45
<b>Subtotal</b>			<b>15</b>	<b>0</b>	<b>15</b>	<b>225</b>

8 th Semester						
Code	Elective Course	Pre-requisite Course	Credit Units			Time Duration (hours)
			Class	Assig.	Tot.	
ZAZ0044	Aquiculture Production Methods	ZAZ0332	3	0	3	45
ZAZ0045	Rural Extension Practice	ZAZ0428	3	0	3	45
ZAZ0046	Business Strategy Applied on Farming and Animal Production	ZAZ0416	2	0	2	30
ZAZ0048	Rural Property Organization	ZAZ0111	2	0	2	30
ZAZ0054	Forage and Grain Processing	ZAZ0328 <sup>rf</sup>	4	0	4	60
ZAZ0415	Goat Production	ZAZ0218 ZAZ0228 ZAZ0322	3	0	3	45
ZAZ0483	Sheep Production	ZAZ0322	3	0	3	45
<b>Subtotal</b>			<b>20</b>	<b>0</b>	<b>20</b>	<b>300</b>
<b>TOTAL</b>			<b>61</b>	<b>0</b>	<b>61</b>	<b>915</b>

CREDIT UNITS AND TIME DURATION (HOURS)		
Compulsory Courses	Credit Units	Hours
Classes	218	3270
Assignment	20	600
<b>Subtotal</b>	<b>238</b>	<b>3870</b>
Elective Courses		Time (h)
Classes	18	270
Assignment	0	0
<b>Subtotal</b>	<b>18</b>	<b>270</b>
<b>OVERALL TOTAL</b>	<b>276</b>	<b>4140</b>