THE COLLEGE OF AGRICULTURE AND FOOD SCIENCE

The College of Agriculture and Food Science is designed to foster the development of agriculture and food sciences in Liberia and in the world community by training students in the food and agricultural sciences. It provides the foundation of a dream for tomorrow. It is where one begins to cultivate love and passion for agriculture and environment that lead into life-giving profession. Its programs reflect today's technological advancements and possibilities. Its faculty is devoted to teaching, research, and extension. It is geared to the exploration of new possibilities and developments, and the dissemination of new technologies to the students and the community.

The College of Agriculture is the first and the only college that offers a four-year agriculture degree in Southeast, Liberia. As the premier agricultural school in the Southeast, where inhabitants' major livelihood is subsistence farming, the College's focus and priority would be the transformation and development of agriculture as a business and industry. The graduates become the new breed of farmers who could not only farm, but could introduce to their communities new technologies that could result in increased production of traditional food crops and livestock and sustained environmental preservation.

Vision

College of Agriculture and Food Science aspires to be the center of advanced agriculture and food production.

Mission

College of Agriculture and Food Science aims to provide opportunity for development and advancement of agriculture. It aims to provide venues for the application of scientific, technological, and business knowledge embracing food, animal production, distribution, and consumption. It aims to transform future leaders in the agriculture and food science through innovative learning approaches as it caters to the needs of the students.

Program Description:

The degree of Bachelor of Science in Agriculture introduces to the students the various disciplines and fields in agriculture It provides rich experiential learning and unique opportunity for an individual to develop professional, leadership, and communication skills that would eventually lead him/her to a productive career.

The program includes study of the traditional agriculture production such as: crop science, soil science, animal science, rubber science, and agricultural engineering. The inception of food sciences and nutrition addressed the urgency of giving priority to the preparation and preservation of traditional food crops and animals. The inclusion of agricultural education and extension not only addresses the major bottleneck in the

national agricultural extension service, but prepares teachers to teach agriculture in secondary schools.

Agricultural marketing and business programs expose the students to the importance of agriculture as a way of life and as a profession essential to national growth and development. The aesthetic nature of agriculture, with emphasis on the environment, buttresses the importance of horticulture and landscaping thereby preparing the students for a career in the industry.

The agricultural farm is the arena where the students embark on a hands-on approach to learning, getting their hands soiled right from the very start of their curriculum years. The students learn the principles of good science, and apply them both in the laboratory and in the field. They are provided the opportunity to work with and care for animals and to engage in the management and cultivation of traditional food crops, and also to understand the marketing of agricultural commodities. The agricultural farm is the major economic base that provides resources to support the college and the university. Students must feel that learning is not all work, but also fun!

Program Objectives:

The program aims to:

- 1. Expose students to the technical and practical application of agricultural science; and
- 2. Prepare and train students to be engaged in agriculture as an industry and business

Program Learning Outcomes:

Students are able to:

- 1. Demonstrate knowledge and ability to apply the skills acquired by participating in the development of agricultural ventures at the college;
- 2. Apply their technical knowledge and skills by developing a relationship with the community by providing technical assistance to their neighbors; and
- 3. Engage in research and on-farm trials that will lead to the development and promotion of new crops.

Curriculum Requirements:

General Education	52 Credit Hours
• College Specific Required Courses	21 Credit Hours
 Professional Courses 	57 Credit Hours
• Elective Courses	6 Credit Hours

Bachelor of Science in Agriculture – Animal Science

Freshman Year

	First			Second	
Course	Course Title	Credit	Course	Course Title	Credit
Code		Hours	Code		Hours
ENG 101	English Grammar and	3	ENG 102	Academic Reading and	3
	Phonetics			Writing	
MATH	College Algebra	3	MATH	Analytical Geometry and	3
101			102	Trigonometry	
BIO 101	General Biology	4	CHEM	Principles of Chemistry	4
			101		
PSY 101	Intro to Psychology	3	CSE 102	Computer Literacy	3
CSE 101	Introduction to	3	PHI 102	Intro to Philosophy	3
	Computers				
AGR 121	Practicum I	1	HIST	Liberian History	3
			101	•	
PED 101	Physical Fitness and	1	PED 102	Physical Fitness and	1
	Wellness I			Wellness II	
			AGR 122	Practicum II	1
Total		18	Total		21

First			Second			
Course	Course Title	Credit	Course	Course Title	Credit	
Code		Hours	Code		Hours	
ENG	Technical	3	ENG 204	Introduction to Literature	3	
103/	Communication and					
AGR 205	Public Speaking					
SSC 201	Introduction to Liberian	3	FRE/	Advanced French/ Grebo	3	
	Society, Issues and		GRE/	/Chinese		
	Problems		CHI102			
FRE/	French/ Grebo/	3	PHY 201	Physics	4	
GLE/	Chinese					
CHI101						
CHEM	Organic Chemistry)	4	CHEM	Inorganic Chemistry	4	
201			202	-		
EVS 201	Introduction to	3	AGR 204	Agricultural Marketing	3	
	Environmental Science					
AGR 201	Agricultural Economics	3	AGR 206	Agricultural Statistics &	3	
				Experimental Design		
AGR 221	Practicum III	1	AGR222	Practicum IV	1	
Total		20	Total		21	

	First			Second	
Course	Course Title	Credit	Course	Course Title	Credit
Code		Hours	Code		Hours
AGR 323	Introduction to Soil	3	AGR 304	Extension Education	3
	Science				
AGR 341	Introduction to Animal	3	AGR 306	Genetics	3
	Science				
AGR 305	Plant Science	3	AGR 308	Agriculture & Climate	3
AGR 351	Introduction to Forestry	3	AGR 352	Post-harvest Management &	3
EED 301	Entrepreneur & Micro		AGR 318	Animal Science (Cattle and	3
	Enterprise			Small ruminant)	
AGR 317	Animal Physiology	3	AGR 468	Animal Health & Disease	3
	. 5			Control	
AGR 321	Seminar I	1	AGR 322	Seminar II	1
Total		16	Total		19

Senior Year

First			Second		
Course	Course Title	Credit	Course	Course Title	Credit
Code		Hours	Code		Hours
AGR 423	Basic Horticulture	3	AGR 426	Senior Research Project	4
AGR 425	Internship	3	AGR 418	Animal Science (Swine)	3
AGR 417	Animal Science (Fish)	3	AGR 416	Feeds and Feeding	3
AGR 419	Animal Science	3			
	(Poultry)				
AGR421	Seminar III	1			
Total		13	Total		10

Bachelor of Science in Agriculture – Crop Science

Freshman Year

First			Second		
Course	Course Title	Credit	Course	Course Title	Credit
Code		Hours	Code		Hours
ENG 101	English Grammar and	3	ENG 102	Academic Reading and	3
	Phonetics			Writing	
MATH	College Algebra	3	MATH	Analytical Geometry and	3
101			102	Trigonometry	
BIO 101	General Biology	4	CHEM	Principles of Chemistry	4
			101		
PSY 101	Intro to Psychology	3	CSE 102	Computer Literacy	3
CSE 101	Introduction to	3	PHI 102	Intro to Philosophy	3
	Computers				
AGR 121	Practicum I	1	HIST	Liberian History	3
			101		
PED 101	Physical Fitness and	1	PED 102	Physical Fitness and	1
	Wellness I			Wellness II	
			AGR 122	Practicum II	1
Total		18	Total		21

Sophomore .	First		Second			
				1	1	
Course	Course Title	Credit	Course	Course Title	Credit	
Code		Hours	Code		Hours	
ENG	Technical	3	ENG 204	Introduction to Literature	3	
103/	Communication and					
AGR 205	Public Speaking					
SSC 201	Introduction to Liberian	3	FRE/	Advanced French/ Grebo	3	
	Society, Issues and		GRE/	/Chinese		
	Problems		CHI102			
FRE/	French/ Grebo/	3	PHY 201	Physics	4	
GLE/	Chinese					
CHI101						
CHEM	Organic Chemistry)	4	CHEM	Inorganic Chemistry	4	
201	• •		202			
EVS 201	Introduction to	3	AGR 204	Agricultural Marketing	3	
	Environmental Science					
AGR 201	Agricultural Economics	3	AGR 206	Agricultural Statistics &	3	
	-			Experimental Design		
AGR 221	Practicum III	1	AGR222	Practicum IV	1	
Total		20	Total		21	

	First			Second	
Course	Course Title	Credit	Course	Course Title	Credit
Code		Hours	Code		Hours
AGR 323	Introduction to Soil	3	AGR 308	Agriculture & Climate	3
	Science			Change	
AGR 341	Introduction to Animal	3	AGR 304	Extension Education	3
	Science				
AGR 351	Introduction to Forestry	3	AGR 306	Genetics	3
EED 301	Entrepreneur & Micro	3	AGR 352	Post-harvest Management	3
	Enterprise			& Technology	
AGR 305	Plant Science	3	AGR 312	Plant Physiology	3
AGR 321	Seminar I	1	AGR 322	Seminar II	1
Total		16	Total		16

Senior Year

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	First			Second		
Code	Course Title	Credit	Code	Course Title	Credit	
AGR 423	Basic Horticulture	3	AGR 426	Senior Research	4	
AGR 425	Internship	3	AGR 452	Plant Pathology & Weed	3	
				Science		
AGR 413	Plant Nutrition	3	AGR 454	Tropical Food Crops	3	
AGR 453	Plant Entomology &	3				
	Pest Management					
AGR 455	Tropical Tree Crops	3				
AGR 421	Seminar III	1				
Total		16	Total		10	

Bachelor of Science in Agriculture – Soil Science

Freshman Year

	First		Second			
Course	Course Title	Credit	Course	Course Title	Credit	
Code		Hours	Code		Hours	
ENG 101	English Grammar and	3	ENG 102	Academic Reading and	3	
	Phonetics			Writing		
MATH	College Algebra	3	MATH	Analytical Geometry and	3	
101			102	Trigonometry		
BIO 101	General Biology	4	CHEM	Principles of Chemistry	4	
			101			
PSY 101	Intro to Psychology	3	CSE 102	Computer Literacy	3	
CSE 101	Introduction to	3	PHI 102	Intro to Philosophy	3	
	Computers					
AGR 121	Practicum I	1	HIST	Liberian History	3	
			101			
PED 101	Physical Fitness and	1	PED 102	Physical Fitness and	1	
	Wellness I			Wellness II		
			AGR 122	Practicum II	1	
Total		18	Total		21	

Sophomore	opnomore 1eur							
	First		Second					
Course	Course Title	Credit	Course	Course Title	Credit			
Code		Hours	Code		Hours			
ENG	Technical	3	ENG 204	Introduction to Literature	3			
103/	Communication and							
AGR 205	Public Speaking							
SSC 201	Introduction to Liberian	3	FRE/	Advanced French/ Grebo	3			
	Society, Issues and		GRE/	/Chinese				
	Problems		CHI102					
FRE/	French/ Grebo/	3	PHY 201	Physics	4			
GLE/	Chinese							
CHI101								
CHEM	Organic Chemistry)	4	CHEM	Inorganic Chemistry	4			
201			202					
EVS 201	Introduction to	3	AGR 204	Agricultural Marketing	3			
	Environmental Science							
AGR 201	Agricultural Economics	3	AGR 206	Agricultural Statistics &	3			
				Experimental Design				
AGR 221	Practicum III	1	AGR222	Practicum IV	1			
Total		20	Total		21			

First			Second			
Course	Course Title	Credit	Course	Course Title	Credit	
Code		Hours	Code		Hours	
Code	Course Title	Credit	Code	Course Title	Credit	
AGR 323	Introduction to Soil	3	AGR 308	Agriculture & Climate	3	
	Science			Change		
AGR 341	Introduction to Animal	3	AGR 304	Extension Education	3	
	Science					
AGR 351	Introduction to Forestry	3	AGR 306	Genetics	3	
EED 301	Entrepreneur & Micro	3	AGR 352	Post-harvest Management &	3	
	Enterprise			Technology		
AGR 321	Seminar I	1	AGR 322	Seminar II	1	
AGR 305	Plant Science	3				
Total		16	Total		13	

Senior Year

First			Second			
Course	Course Title	Credit	Course	Course Title	Credit	
Code		Hours	Code		Hours	
AGR 423	Basic Horticulture	3	AGR 426	Senior Research	4	
AGR 425	Internship	3	AGR 462	Soil & Water Conservation	3	
AGR 461	Soil Management &	3	AGR 464	Comparative Soil	3	
	Fertilization			Ecosystem Analysis		
AGR 463	Soil Chemistry	3	AGR 466	Soil Survey	3	
AGR 465	Soil & Climate change	3				
AGR 421	Seminar III	1				
Total		16	Total		13	

Bachelor of Science in Applied Agriculture

Freshman Year

First				Second	
Course	Course Title	Credit	Course	Course Title	Credit
Code		Hours	Code		Hours
ENG 101	English Grammar and	3	ENG 102	Academic Reading and	3
	Phonetics			Writing	
MATH	College Algebra	3	MATH	Analytical Geometry and	3
101			102	Trigonometry	
BIO 101	General Biology	4	CHEM	Principles of Chemistry	4
			101		
PSY 101	Intro to Psychology	3	CSE 102	Computer Literacy	3
CSE 101	Introduction to	3	PHI 102	Intro to Philosophy	3
	Computers				
AGR 121	Practicum I	1	HIST	Liberian History	3
			101	-	
PED 101	Physical Fitness and	1	PED 102	Physical Fitness and	1
	Wellness I			Wellness II	
			AGR 122	Practicum II	1
Total		18	Total		21

First			Second			
Course	Course Title	Credit	Course	Course Title	Credit	
Code		Hours	Code		Hours	
ENG	Technical	3	ENG 204	Introduction to Literature	3	
103/	Communication and					
AGR 205	Public Speaking					
SSC 201	Introduction to Liberian	3	FRE/	Advanced French/ Grebo	3	
	Society, Issues and		GRE/	/Chinese		
	Problems		CHI102			
FRE/	French/ Grebo/	3	PHY 201	Physics	4	
GLE/	Chinese					
CHI101						
CHEM	Organic Chemistry)	4	CHEM	Inorganic Chemistry	4	
201			202			
EVS 201	Introduction to	3	AGR 204	Agricultural Marketing	3	
	Environmental Science					
AGR 201	Agricultural Economics	3	AGR 206	Agricultural Statistics &	3	
				Experimental Design		
AGR 221	Practicum III	1	AGR222	Practicum IV	1	
Total		20	Total		21	

First			Second			
Course	Course Title	Credit	Course	Course Title	Credit	
Code		Hours	Code		Hours	
AGR 323	Introduction to Soil	3	AGR 308	Agriculture & Climate	3	
	Science			Change		
AGR 341	Introduction Animal	3	AGR 304	Extension Education	3	
	Science					
AGR 351	Introduction to Forestry	3	AGR 306	Genetics	3	
EED 301	Entrepreneur & Micro	3	AGR 352	Post-harvest Management &	3	
	Enterprise			Technology		
AGR 305	Plant Science	3	AAE		3	
AGR 321	Seminar I	1	AGR 322	Seminar II	1	
Total		16	Total		13	

Senior Year

First			Second		
Code	Course Title	Credit	Code	Course Title	Credit
AGR 423	Basic Horticulture	3	AGR 426	Senior Research	4
AGR 425	Internship	3	AGR	AAE	3
AGR	AAE	3	AGR	Animal Health & Diseases	3
				Control	
AGR 421	Seminar III	1	AGR	AAE	3
AGR	AAE	3	AGR	AAE	3
Total		13	Total		16