AGRICULTURE FORWARD ADVISING GUIDE

Certificate in Sustainable Agriculture

to Bachelor of Science in Animal Science (Animal Care & Management)

This is a sample four-year academic plan for an Agriculture Forward student in the College of Agriculture and Natural Resources at the University of Maryland, College Park. An individualized plan will be created with each student based on math placement, transfer credits, and other academic considerations.

1st YEAR, FALL SE	MESTER	Credit Hours	Plan	Taken	Grade
ANSC 101/103	Principles of Animal Science/Lab	4			
ENGL 101	Academic Writing † FSAW	3			
INAG 123	People, Planet, & Profit † DSSP/IS	3			
*	INAG business cours	se 3			
MATH 113	College Algebra and Trigonometry † FSMA	3			
UNIV 100	The Student in the University	<u>1</u>			
		17			GPA
1st YEAR, SPRING	SEMESTER				
BSCI 170/171	Principles of Molecular & Cell Bio/Lab † DS	NL 4			
CHEM 131/132	Fundamentals of General Chemistry † DSNL	4			
INAG 106	Pesticide Use & Safety	2			
INAG 110	Oral Communication † FSOC	3			
MATH 120	Elementary Calculus I † FSAR	3			OR
MATH 140	Calculus I † FSAR	<u>3</u>			
		16			GPA
SUMMER BETWEE	EN 1st and 2nd YEARS				
INAG 288	Agricultural Practicum	1			
2nd YEAR, FALL SI	EMESTED				
ANSC 204/205	Anatomy of Domestic Animals/Lab	4			
BSCI 160/161	Principles of Ecology & Evolution/Lab	4	-		
CHEM 231	Organic Chemistry I	3			OR
PLSC 275	Fundamentals of Agricultural Chemistry	3			OK
INAG 289	Internship	<u>3</u>			
INAC 207	mensiip	<u>3</u> 14			GPA
2nd YEAR, SPRING	SEMESTER	14			0171
ANSC 212/214	Applied Animal Physiology/Lab	4			
ANSC 2**	rippired riminar ringstology, Euro	3			
*	INAG business cours				
INAG 248	Topics in Sustainable Agriculture	1			
INAG 105	Soils and Fertilizers	3			
1110 100	† DSH				
		<u>5</u> 17			GPA
3rd YEAR, FALL SI	EMESTER				
ANSC 314	Comparative Animal Nutrition	3			
AREC 250	Elem. of Agricultural & Resource Econ. † DS	SHS 3			OR
ECON 200	Principles of Microeconomics † DSHS	3			
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ENGL 39	Professional Writing † FSPW	3			
AREC 306*	Farm Mgmt/Sust. Food Prod. † DSSP	3			OR
ANSC 270*	Animal Enterprise Management	3			OR
INAG 204 (offered in t	he spring)				
INAG 250	Fundamentals of Agricultural Mechanics	<u>3</u>			
	•	15			GPA
3rd YEAR, SPRING S	SEMESTER				
ANSC 315	Applied Animal Nutrition	3			
ANSC 2**		3			
ANSC 2 **		3			
BSCI 223	General Microbiology † DSNS/IS	4			
-20	† DSHS/UP	<u>3</u>			
		<u>-</u> 16			—— GPA
* Completion of IAA C	ertificate Requirements *	10			Gi /i
Completion of HIII Co	trificate Requirements				
4th YEAR, FALL SE	MESTED				
ANSC 446/447	Physiology of Mammalian Reproduction/Lab	4			
ANSC***		3			
ANSC***					
BIOM 301	Introduction to Disperties + FGAD () ()	3			
BIOM 301	Introduction to Biometrics † FSAR (suggested elective)				
	† DSHU/UP	<u>3</u>			
44 17545 (555)		16			GPA
4th YEAR, SPRING S	SEMESTER .				
ANSC 327	Molecular and Quantitative Animal Genetics	3			OR
ANSC 327 ANSC 450	Molecular and Quantitative Animal Genetics Animal Breeding Plans (3 credits, offered in the	fall)			OR
ANSC 327 ANSC 450 ANSC 340	Molecular and Quantitative Animal Genetics				OR
ANSC 327 ANSC 450 ANSC 340 ANSC***	Molecular and Quantitative Animal Genetics Animal Breeding Plans (3 credits, offered in the	fall)			OR
ANSC 327 ANSC 450 ANSC 340	Molecular and Quantitative Animal Genetics Animal Breeding Plans (3 credits, offered in the Health Mgmt of Animal Populations † DSSP	fall)			OR
ANSC 327 ANSC 450 ANSC 340 ANSC***	Molecular and Quantitative Animal Genetics Animal Breeding Plans (3 credits, offered in the Health Mgmt of Animal Populations † DSSP	fall) 3 3			OR OR
ANSC 327 ANSC 450 ANSC 340 ANSC***	Molecular and Quantitative Animal Genetics Animal Breeding Plans (3 credits, offered in the Health Mgmt of Animal Populations † DSSP	fall) 3 3 3			ORGPA
ANSC 327 ANSC 450 ANSC 340 ANSC***	Molecular and Quantitative Animal Genetics Animal Breeding Plans (3 credits, offered in the Health Mgmt of Animal Populations † DSSP	fall) 3 3 3 3			
ANSC 327 ANSC 450 ANSC 340 ANSC***	Molecular and Quantitative Animal Genetics Animal Breeding Plans (3 credits, offered in the Health Mgmt of Animal Populations † DSSP	fall) 3 3 3 3			
ANSC 327 ANSC 450 ANSC 340 ANSC*** ANSC*** * Student must complete	Molecular and Quantitative Animal Genetics Animal Breeding Plans (3 credits, offered in the Health Mgmt of Animal Populations † DSSP † DSSP if needed **TOTAL CREDITS** Three INAG business courses (choices: INAG 102, 103 res either INAG 204 or one of its equivalents—ANSC	fall) 3 3 3 15 127 3, 201, 203, 204	-		GPA 5, 206). The Animal
* Student must complete science degree also require these to count toward the	Molecular and Quantitative Animal Genetics Animal Breeding Plans (3 credits, offered in the Health Mgmt of Animal Populations † DSSP † DSSP if needed **TOTAL CREDITS** Three INAG business courses (choices: INAG 102, 103 res either INAG 204 or one of its equivalents—ANSC	fall) 3 3 3 15 127 3, 201, 203, 204 270 or AREC 3	306—so s	students s	GPA GPA GPA The Animal should include one of
* Student must complete science degree also require these to count toward the senchmarks include one of	Molecular and Quantitative Animal Genetics Animal Breeding Plans (3 credits, offered in the Health Mgmt of Animal Populations † DSSP	fall) 3 3 3 15 127 8, 201, 203, 204 270 or AREC 3	306—so s	260, 262	GPA 5, 206). The Animal should include one of , 282. Year 2
* Student must complete to Science degree also require these to count toward the ** Students may choose a benchmarks include one complete to the students may choose a sence that it is students as the students of the second studen	Molecular and Quantitative Animal Genetics Animal Breeding Plans (3 credits, offered in the Health Mgmt of Animal Populations † DSSP	fall) 3 3 3 15 127 8, 201, 203, 204 27, 27, 27, 242, 2 7, 435, 437, 440 (S (history/social scide the student's majerial science)	306—so s 250, 255, , 443, 444 (ences); HU or). Among	260, 262 4, 446, 44	GPA 5, 206). The Animal should include one of , 282. Year 2 47, 450, 452, 453,
* Student must complete to Science degree also require these to count toward the ** Students may choose a benchmarks include one complete to students may choose a benchmarks include one complete to science degree also required these to count toward the ** Students may choose a benchmarks include one complete to count toward the ** Students may choose 455, 460, 489A, 489C, 48 † * General Education Requirements sciences; one must include a lab Series courses and two must be stated to series courses and series courses and two must be stated to series courses and two	Molecular and Quantitative Animal Genetics Animal Breeding Plans (3 credits, offered in the Health Mgmt of Animal Populations † DSSP	fall) 3 3 3 15 127 3, 201, 203, 204 27, 270 or AREC 3 232, 237, 242, 2 7, 435, 437, 440 (S (history/social scide the student's majerlural Societies countries)	306—so s 250, 255, , 443, 444 (ences); HU or). Among rse).	260, 262 4, 446, 44 (humanities those eigh	GPA GPA GPA GPA GPA GPA GPA GPA

Ag Forward Advising Checklist for Sustainable Agriculture Students

To earn a Certificate in Applied Agriculture, Ag Forward students must complete **60 credits** in accordance with the requirements listed below.

Fundan	nental Studies (9 credits)
	☑ INAG 110 Oral Communication (3)
	☑ ENGL 101 Academic Writing (3)
	oximes MATH 113 College Algebra and Trigonometry (3) or higher
Fundan	nental Agricultural Science (4 credits)
One col	urse from the following list:
	\square INAG 100 Introduction to Plant Science (4)
	☐ PLSC 100 Introduction to Horticulture (4)
	☐ PLSC 101 Introductory Crop Science (4)
	☑ ANSC 101 & 103 Principles of Animal Science & Lab (4)
	☐ NFSC 100 Elements of Nutrition (3)
Applied	Agriculture (16 credits)
One col	urse from the following list:
	☑ INAG 105 Soils and Fertilizers (3)
	☐ ENST 200 Fundamentals of Soil Science (4)
All of th	ne following courses:
	☐ INAG 106 Pesticide Use and Safety (2)
	☑ INAG 123 Introduction to Sustainable Agriculture (3)
	☑ INAG 248 Topics in Sustainable Agriculture (1)
	☑ INAG 250 Fundamentals of Agricultural Mechanics (3)
	☑ INAG 288 Agricultural Practicum (1)
	☑ INAG 289 Internship (3)
	ss Management (9 credits)
Three c	ourses from the following list:
	☐ INAG 102 Agricultural Entrepreneurship (3)
	☐ INAG 103 Agricultural Marketing (3)
	☐ INAG 201 Agricultural Human Resource Management (3)
	☐ INAG 203 Agricultural Finance (3)
	☐ INAG 204 Agricultural Business Management (3)
	☐ INAG 205 Analyzing Alternative Enterprises (3)
	☐ INAG 206 Agricultural Business Law (3)
	☑ ANSC 270 Animal Enterprise Management (3)
Agricul	ture and Natural Resources (22+ credits) with advisor approval:
	☑ ANSC 204/205: Anatomy of Domestic Animals/Lab (4)
	☑ ANSC 212/214: Applied Animal Physiology/Lab (4)
	☑ ANSC 314: Comparative Animal Nutrition (3)
	☑ ANSC 315: Applied Animal Nutrition (3)
	☑ ANSC management elective (3)
	☑ ANSC management elective (3)
	☑ ANSC management elective (3)