



## AGA 403, Advanced Reproductive Techniques, Spring 2026, MWF 9

Overview of Semester Schedule (Subject to change (weather, farm field trips, etc))

AGA 403-Content Schedule		
Week	Lecture Content	Lab
Week 1	Intro to Class, Pregnancy Detection Options	Pregnancy Blood Test-Beef Herd
Week 2	Finish Pregnancy Detection, Start Ch. 10	Ag Dome Lab-Properly Thaw Semen, Palpating Tracts
Week 3	Ch. 10, Technology in Swine Reproduction	AI Sows at Hog Farm
Week 4	Processing of frozen semen/sexed semen	Trip to Show-Me Genetics
Week 5	Review Material, Q&A, <b>Test #1 (Wed)</b>	<b>AI School-Friday and Saturday</b>
Week 6	Ch. 11, Heat Detection Aids	Dairy Freestall Barn-Cold Shock Semen/Palpate
Week 7	Ch. 12, Synchronization-Beef and Dairy	Ultrasounding Sows at the Hog Farm
Week 8	Ch. 13, Conventional flushing in cattle	Dairy Freestall Barn-Embryo Flush/Palpate
	<b>SPRING BREAK</b>	<b>SPRING BREAK</b>
Week 9	Reversed sexed semen, IVF in cattle	Trip to Whitaker IVF Service (Probably Wed)
Week 10	Review material, Q&A, <b>Test #2 (Wed)</b>	Ag Dome Cold Shock Semen/Palpate at Dairy Freestall
Week 11	Ch. 14, Nutritional affects on reproduction	Dairy Freestall Barn-Palpate
Week 12	Ch. 15, Calving Seasons in the Beef Herd	Ultrasound/Palpate-Pregnancy-Beef Herd
Week 13	EPD's in depth, Use of Genomics in Reproduction	Trip to SEK Genetics
Week 14	Poultry Repro Techniques, Repro diseases	Synch Spring Beef Heifers
Week 15	Review material, Q&A, <b>Test #3 (Wed)</b>	Dairy Freestall Barn-Palpate



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	Monday-9AM		Wednesday-9AM		Friday-8AM	
	Due Today	Covering in Class	Due Today	Covering in Class	Due Today	Covering in Class
Week 1			1/14	-Intro to Class -Pregnancy Detection Techniques-focus on blood test	1/16	Pull blood in beef cows for pregnancy at Stewarts barn
Week 2	1/19	-Pregnancy Detection Lecture	1/21	-Finish Pregnancy Detection Lecture	1/23	Go over AI equipment, how to properly thaw semen in Animal Science Lab
Week 3	1/26 Watch Lecture 24 (under Bookmarks on Campusweb)	Ch. 10 Lecture	1/28 Watch Lecture 25	Ch. 10 Lecture	1/30	Properly thaw semen lab
Week 4	2/2	Trip to Show-Me Genetics-Leave at 8AM	2/4 Watch Lecture 26	Discuss ShowMe Genetics Trip -Finish up Ch. 10 Lecture	2/6	Palpate cows at the free stall barn
Week 5	2/9	Repro Diseases/Best Vaccination Practice	2/11	AI Advantages and Disadvantages Excel with cost comparison	2/13	Palpate cows at the free stall barn



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	Due Today	Covering in Class	Due Today	Covering in Class	Due Today	Covering in Class
Week 6	2/16	Fetal sexing embryo recipient cows by ultrasound-Leave Dome at 8AM	2/18	Leave at 9AM Trip to Hog Farm to AI Sows	2/20	AI School at Salebarn
Week 7	2/23		2/25		2/27	Palpation at Freestall Barn
Week 8	3/2		3/4	Leave at 7AM Trip to Thayer, MO to view IVF	3/6	No class State Archery
Week 9	3/9	Synchronization from a producer POV	3/11	-Synchronization from a producer POV -Dairy Synchronization	3/13	Palpation at Freestall Barn
<b>Spring Break</b>						
Week 10	3/23	Finish Dairy Synchronization	3/25	Applying EPD's to real-world scenarios	3/27	Palpation at Freestall Barn



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	Monday-9AM		Wednesday-9AM		Friday-8AM	
	Due Today	Covering in Class	Due Today	Covering in Class	Due Today	Covering in Class
Week 11	3/30	Applying EPD's to real-world scenarios	4/1	Applying EPD's to real-world scenarios	4/3	<u>No Class-Good Friday</u>
Week 12	4/6		4/8 Sire Selection Activity Due		4/10	
Week 13	4/13		4/15		4/17	Equine AI at Kelsey Powell?
Week 14	4/20		4/22		4/24	AI at Smith Registered Angus Ranch-Leave a 6:30AM
Week 15	4/27		4/29		5/1	



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