



AGA 403, Advanced Reproductive Techniques, Spring 2025, 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, Test #1 (Wed)	AI School-Friday and Saturday
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
	SPRING BREAK	SPRING BREAK
Week 9	Reversed sexed semen, IVF in cattle	Trip to Whitaker IVF Service (Probably Wed)
Week 10	Review material, Q&A, Test #2 (Wed)	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, Test #3 (Wed)	Dairy Freestall Barn-Palpate



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	Monday		Wednesday		Friday	
	Due Today	Covering in Class	Due Today	Covering in Class	Due Today	Covering in Class
Week 1			1/15	-Intro to Class -Pregnancy Detection Techniques-focus on blood test	1/17	Pull blood in beef heifers for pregnancy at Stewarts barn
Week 2	1/20	-Pregnancy Detection Lecture	1/22	-Finish Pregnancy Detection Lecture	1/26	Go over AI equipment, how to properly thaw semen in Animal Science Lab
Week 3	1/27	-Basic AI Techniques lecture	1/29	Lab in Animal Science lab-passing AI gun through repro tracts	1/31	Trip to Beef farm to ultrasound/fetal sex embryo cows
Week 4	2/3	-Semen Collecting and Storage	2/5	-Meet at freestall barn to palpate dairy cows	2/7	Trip to beef farm to ultrasound the cows who were AI'ed
Week 5	2/10	-Synchronization for Dairy Cattle	2/12	In Animal Science lab-properly thawing semen	2/14	Trip to beef farm to ultrasound the cows who were AI'ed



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	Monday		Wednesday		Friday	
	Due Today	Covering in Class	Due Today	Covering in Class	Due Today	Covering in Class
Week 6	2/17	Beef Synchronization Lecture	2/19	Watch lecture on "Recent developments in estrus synchronization"	2/21	AI School at the salebarn
Week 7	2/24	Modern Swine Reproductive Mgmt	2/26	-Meet at freestall barn to palpate dairy cows	2/28	AI Sows at the Hog Farm
Week 8	3/3	Review for Test #1	3/5	Palpate at the dairy	3/7	Test #1
Spring Break						
Week 9	3/17	Trip to ShowMe Genetics to view semen collection and processing	3/19	In depth look at EPD's Go over sire selection assignment	3/21	Palpate at the dairy
Week 10	3/24 Sire Selection Assignment due on Campusweb	Go over Test #1 and sire selection assignment	3/26 Watch Lecture 30 before class (take notes)	Ch. 12, Part 1 Lecture	3/28	Palpate at the dairy



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	Monday		Wednesday		Friday	
	Due Today	Covering in Class	Due Today	Covering in Class	Due Today	Covering in Class
Week 11	3/31 Watch Lecture 31	Ch. 12, Part 2 Lecture	4/2	Ryan Bilyeu speaking about "CowManager"	4/4	Palpate at the dairy with a timer
Week 12	4/7	IVF basics in cattle	4/9	Trip to Whitaker Embryo Services to view IVF collection Leave at 7AM	4/11	Palpate at the dairy with a timer
Week 13	4/14	Conventional Embryo Transfer basics	4/16	Flushing simulation in the animal science lab	4/18	<u>No Class-Good Friday</u>
Week 14	4/21	Dr. Ring's presentation on broiler genetics	4/23	Palpating at the freestall barn	4/25	Trip to Smith Registered Angus to AI heifers/cows Leave at 5:30AM
Week 15	4/28		4/30	Review for Test #2	5/2	Test #2



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Comprehensive Final is 5/9/25 from 8:00-10:00