

TENTATIVE
ANIMAL SCIENCES 511
BREEDER FLOCK & HATCHERY MANAGEMENT
June 4-June 15, 2012

Course Syllabus

Course Coordinator Ron Kean (rpkean@wisc.edu 608/262-8807)

Other Course Instructors Ian Rubinoff, DVM, MPH, (HyLine International)
 Sally Noll, (Univ. of Minnesota)
 Bernie Wentworth (Univ. of Wisconsin)
 Mike Wineland (North Carolina State University)

Class meets in 212 Animal Sciences Monday through Friday, unless otherwise noted.

Labs and lectures will be interspersed throughout the days. Attendance is expected during all labs and lectures. Participation in discussion and problem solving sessions is also expected.

Grading:

Quiz 1	(Wed., June 6)	50 points
Exam 1	(Fri., June 8)	100
Quiz 2	(Wed., June 13)	45
Exam 2	(Fri., June 15)	100
Topical Paper Discussion		10
Problem set		75
Participation		<u>20</u>
Total		400 points

Grading Scale:

Non-UW-Madison students

A	≥ 90%
B	≥ 80%
C	≥ 70%
D	≥ 60%
F	< 60%

UW-Madison students

A	≥ 92%
AB	≥ 87%
B	≥ 82%
BC	≥ 77%
C	≥ 70%
D	≥ 60%
F	< 60%

TENTATIVE LECTURE SCHEDULE

<u>Date</u>	<u>Time</u>	<u>Topic</u>	
June 4	8:30-10	Course introduction / Introduce Problem Sets	Kean
	10-12	Introduction to artificial incubation and hatching	Wineland
		History of artificial incubation and hatching	
	1-2	Physiological requirements for incubation	Wineland
2-4	Pre-incubation handling of hatching eggs	Wineland/Kean	
June 5	8:30-9:30	Hatchery layout, scheduling, recordkeeping	Kean
	9:30-12	Embryonic development (lecture)	Wineland
	1-3	Embryonic development (lab AnSci 128)	Wineland/Kean
	3-4	Incubation of other species	Kean
June 6	8:30-9	Quiz 1	
	9-10:30	Cleaning and disinfecting	Wineland
		Microbial monitoring	Wineland
	10:30-11	Chick servicing (lecture)	Kean
	11-12	Post hatch chick quality	Kean
	1-3	Chick quality lab	Kean/Wineland
3-4	Hatch residue breakout	Kean	
June 7	6 am- 5 pm	Chick servicing (lab)	Kean
		Field Trip to Hatchery and Processing Plant	Kean
June 8	8:30-9:30	Exam 1	
	9:30-11:30	Organization of the poultry industry	Kean
		Genetic flow in the poultry industry	Kean
		Breeder selection strategies	Kean
1-3	Turkey Breeder Economic Modeling	Kean	
Handout papers for reading for next week's discussion (Kean for Noll)			

June 11	8:30-9:30	Tour of Poultry Research Lab (meet at PRL)	Kean
	9:30-12	Turkey breeder replacement brooding and rearing	Noll
	1-3	Broiler breeder rearing and flock mgmt.	Noll
	3-4 Discussion *	Introduction to Feed Restriction in Poultry Breeders and Group	Noll
June 12	8:30-9:30	NPIP and breeder farm biosecurity	Noll
	9:30-10:30	Personnel management and contracts	Kean
	10:30-12	Turkey breeder flock management	Noll
	1-2	Introduction to artificial insemination	Noll
	2-3	Bird behavior and relation to management decisions	Kean
	3-4	Feed restriction – Pre and Post Knowledge assessment	Noll
June 13	8:30-9	Quiz 2	
	9-11	Labs – bird handling, flock behavior, AI techniques [students will split into groups and rotate](PRL)]	Noll & Kean
	11-12	Flock behavior discussion (PRL classroom)	Kean
	1-2	Collect semen	B. Wentworth
	2-4	Semen handling techniques, quality testing	B. Wentworth
June 14	8:30-11:30	Layer breeder flock management	Rubinoff
	1-2	Layer breeder flock management (cont.)	Rubinoff
	2-4	Equipment overview, breeder facility setup Lab: Tools to use in poultry management and housing - vaccination,environment monitoring	Noll Noll
June 15	8:30-9:30	Exam 2	
	9:30-11:30	Student/group reports	Noll / Kean

*Active Learning Exercise