

# HORSE MANAGEMENT 2005

## ANIMAL SCIENCES 440

**Lectures:** Tuesday and Thursday  
9:30 a.m., Lilly G-432

**Labs:** Wednesday 1:30 or 3:30 p.m.  
ASTL 100  
Farm Visits - meet bus in  
ASTL parking lot

**Text:** Horse Industry Handbook; A guide to Equine Care and Management, 1999  
American Youth Horse Council, Lexington, KY

**Instructors:** Mark Russell, ANSC, 112 POUL. 494-7677, [mrussell@purdue.edu](mailto:mrussell@purdue.edu)  
Colleen Brady, YDAE, 225 AGAD, 494-8441, [bradyc@purdue.edu](mailto:bradyc@purdue.edu)  
Janice Sojka, VCS, LYNN, 494-8458, [jes@vet.purdue.edu](mailto:jes@vet.purdue.edu)

**Teaching Assistant:** Rebekah Shirley, 812-320-4421, [shirleyr@purdue.edu](mailto:shirleyr@purdue.edu)

### Course Learning Objectives:

- ❑ Understand the scientific principles needed to make sound management decisions for horse feeding, breeding, selection, disease control and economic planning.
- ❑ Be prepared to select or design a facility and management system and learn to use resources available in the industry.
- ❑ Meet and interview professionals in the horse industry to gain realistic perspectives of evolving technologies are applied.
- ❑ Apply classroom knowledge in effective student teams to solve problems and develop a written plan for a horse facility that will cash flow and orally present the plan to the class.
- ❑ Practice thinking critically and logically analyze real industry case problems and present solutions to class.

### Web Resources:

Indiana Horse Council - <http://www.indianahorsecouncil.org>  
American Horse Council – <http://www.horsecouncil.org>  
Indiana Agricultural Statistics Service - <http://www.nass.usda.gov/in>  
American Association of Equine Practitioners – <http://www.aaep.org>  
American Society of Animal Sciences - <http://www.asas.org/>  
Equine Science Society – <http://www.enps.org>  
The Horse magazine online – [www.thehorse.com](http://www.thehorse.com)  
Bloodhorse Magazine – <http://www.bloodhorse.com>  
HorseQuest – national eXtension site – [www.horsequest.info](http://www.horsequest.info)  
Mark Russell - <http://web.ics.purdue.edu/~mrussell>

## Course Schedule

<b>DATE</b>	<b>Tuesday LECTURE</b>	<b>Wednesday LAB</b>	<b>Thursday LECTURE</b>	<b>HIH CHAPTER</b>
08/23 - 08/25	Industry Trends & Contemporary Issues	Demographics & Costs encountered	Business Mgmt & Taxes	1
08/30 - 09/01	Tax Tips & Legal/ Insurance	Kingswood horse care & handling	*Master planning & building site selection	13/3
09/06 - 09/08	Building Design and Construction	<b>Wea Valley Ranch</b> – <i>building design</i>	Barn & arena design	3
09/13 - 09/15	Fence Design & Construction	Case studies -	Instinctual Behavior - CB	3/12 Project description
09/20 - 09/22	Behavior modification - CB	Rose Acres – training	<b>EXAM I -</b>	12
09/27 - 09/29	Breeding Enterprises & Methods - CB	<b>Forrest Hill Equine Center</b> - <i>horse balance &amp; function</i> - RS	Reproductive Physiology - CB	9
10/04 – 10/06	Breeding Management - CB	Ashland Stables – <i>zoning &amp; waste</i> - RS	*Foaling Management -CB	9
Break - 10/13	Fall Break	<b>Wild About Horses</b> – <i>safety &amp; health</i> - RS	Immunity and protection - JS	6
10/18 - 10/20	Equine Welfare Issues	Work on team project	*Contagious Diseases –JS	6
10/25 - 10/27	Internal Parasites -JS	<b>Kings Hill Stables</b> – <i>financial management</i>	Metabolic Disease & First Aid -JS	6
11/01 – 11/03	Genetic Selection	Case studies/projects	*Performance Traits/Pedigrees	10 Project report
11/08 - 11/10	Athletic Conformation & Performance CB	Treadmill Demo- RS	Unsoundness and Lameness – CB	2/5
11/15 - 11/17	Exercise Physiology	Team Reports	<b>EXAM II</b>	12/7
11/22 - 11/24	Digestive Ability & Nutritional Requirements	Thanksgiving	Thanksgiving	7
11/29 – 12/01	Feeding to Meet Requirements – Forages	Team Reports	Feeding Minerals & Vitamins	7
12/06 - 12/08	Feeding/Metabolic Problems	Team Reports	Course Review Wrap Up & Industry Concerns	8
12/12 – 12/17	FINAL EXAM WEEK			

**Grading:** Attendance will not be taken. Students are responsible for all material in Handbook, any handouts, and presented in lecture and lab.

1. **Quizzes (100)** – Four, ten-question, short-answer quizzes (25 pt's each) will be given at the beginning of lectures marked with an asterisk (\*). These will not be announced again. There will be no make-ups.
2. **Farm Analysis Laboratory Reports (100)** - Four laboratory farm visits (**BOLDED**) will be made and a write-up is due in lab the following week. The lab write-ups (25 points each) are to be 4 pages or less in narrative form. The theme of each varies from facility design, horse conformation, financial management, zoning and waste removal, and health & safety, but all should include size, numbers of horses, primary purpose, major expenses and income sources, and what you think could be improved. The last page will be a blueprint of operations, including barn and paddocks.
3. **Exams (200)** - Exams will be given on September 22 and November 17. They will cover material since last exam and are case study, short essay in design. Neither will be dropped. Make-ups must be arranged at least one week in advance and must be taken before the scheduled date.
4. **Team Project (100)** - Assigned teams of three students will plan a horse facility to house a maximum of 35 horses and use 104 acres of the terrain given in class to operate an enterprise that will create a positive cash flow and support itself within three years. A one-page report describing the project and the division of labor within the team is due September 15<sup>th</sup> (15 pts). Individual written reports are due November 3<sup>rd</sup> (40 pts), and individuals will present their summary orally as teams in laboratories on November 16 or 30, or December 07 (45 pts) Students will work together, but do individual written and oral reports, each of which is worth.
5. **Final (100)** - An exam will be given the week of December 12. The two-hour final will be comprehensive, emphasizing the last third of the course and will expect you to integrate the entire course.

**Grading Summary:**

Quizzes	100 pt's.	A= $\geq$ 90%	> 540 pt's.
Farm Laboratory Reports	100 pt's.	B= 81-89%	461 - 539 pt's.
Exams	200 pt's	C= 71-79%	421 - 480 pt's.
Team Project	100 pt's.	D= 60-69%	360 - 420 pt's.
Final	100 pt's	F= < 60%	< 360 pt's.
Possible	600 pt's.		

**WARNING:** If you have difficulty keeping up, doing your own work, or don't understand the assignments or terminology used in class, feel free to contact them BEFORE a problem exists. We operate on the honors system and trust that you will be original in your creative work and do your own work when working independently. Any documented violation of this will be reported to the Dean of Students. We are on the road a lot and often difficult to reach so call to make arrangements.

Have a fun course!!

# Horse Farm Lab Reports

Name of barn/Name of owners/managers

History of barn/age

Purpose/type of barn operations

Number of employees/duties

Description of barn and facilities

Layout

# of horses

# and size of stalls

stall construction (materials, type of wall partitions, bars?)

if indoor arena - size, location, construction type

location of tack rooms, washrooms

size and floor material of aisle

office/lounge?

Manure disposal, where, how

Description of pastures/paddocks/riding rings

# of acres

fence types – adequacy?

structure/organization of turnout - amount, time of day

Feeding schedule

# of times/day

time of day

type of concentrate and roughage

supplements?

storage

Health care program

types of vaccinations, deworming schedule, dental

record keeping (by barn manager or vet)

do boarders

pay directly

Hoof care program

one specific farrier?

set schedules?

to vet or farrier?

or pay bills to barn

for these services?

Business

Fees charges for board, lessons, training, services, sales, labor?

rank major sources of income

rank major expenses

insurance

Theme topic analysis

General impressions/attitudes of managers

Recommendations

Overview diagram of barn and surrounding lots and pastures

people flow, horse flow

# ANSC 440 Team Project

## Planning and Designing a Horse Enterprise

The overall objectives of this project are to give you practical experience in aspects of planning and operating a horse enterprise and to help you develop skills to better function within an effective team. It can be a valuable learning experience and particularly useful if you plan to own horses as a vocation or avocation in the future.

You will be working in teams of approximately three assigned partners. The team will develop a plan and individuals will hand in a written summary describing their project and the division of labor within the team by September 15. Individual written reports are due from each student November 3. The verbal presentations will be given in lab on Nov.16 & 30 and Dec.7<sup>th</sup>. Each student will present their portion of the project and all team members must participate in the 15-20 min. presentation. An additional five minutes will be used for answering class question about the proposal.

The project will require students to work together, accept responsibilities to be do independently, and research material and service costs. As with any committee, members rely on contributions and information from each other. Occasional lab time will be provided for team meetings. An evaluation form will be provided each student to rate their own and their teammates' contributions.

### The Situation

You have inherited \$125,000 and 100 acres of land that is five miles from a metropolitan area of 125,000 people in any location you choose but with the specified terrain. You will be given a topographical map of the property. There are housing developments along your east, north, and west borders. There is a small creek that runs through the property. There are no precious minerals or other rare natural resources on the property and you may not sell any part of the land for income against horse expenses. Additional money is available at 6% interest over a maximum of 15 years depending on the strength of your business plan.

### Your Challenge

Choose a horse enterprise that could utilize this inheritance and provide at least enough income to support itself, including all labor, taxes, and operating expenses. By the end of the third year the enterprise should be self-sustaining and have a positive cash flow. To be realistic, let's limit the number of adult horses permanently housed on the facility to 35. The land must be used in some manner related to a horse enterprise. The property can be in any state or country you choose, but must be **realistic** to the local market and costs.

### Team Procedure

Initially meet to determine what type of enterprise you will plan and which team member will be responsible for what area. Submit a one-page summary by September 15. Describe the enterprise, sources of income, potential market, and briefly include divided responsibilities in a manner to include the following:

- 1) Introduction - nature and primary services or type of enterprise proposed. Include name, location, primary sources of income, etc.
- 2) Facility Plan - operation location (climate and accessibility), drainage, prevailing winds, neighborhood acceptance, zoning of land, building codes, manure disposal, traffic flow of people, vehicles, and animals, future expansion opportunities, local demand for your services, etc.
3. Housing and Fencing - size of barn, number and type of stalls, materials, flooring, ventilation, utilities, structure type, storage spaces, arenas, lots, handling facilities, fencing types, labor source, costs of construction and land grading, etc.

4. Pasture, Forage and Crops - acreage in pasture, fertilization and re-seeding, drainage, topography, erosion control, rotation of land use, water source, seeding mixtures, soil types, hay fields, hay harvest or purchase, cash crops, small grains, labor and equipment costs, etc.
5. Feed and Health of Horses - types of concentrates, supplements, hay types and amounts, sources of feed, storage and delivery systems, feeding schedules, disease prevention, vaccination and de-worming schedules, health requirements, dental and hood care, labor costs, etc.
6. Business Management - insurance - types and costs, fees and rates charges, income sources, type of ownership, advertising and marketing, budgets for each area above showing expenditures, receipts, and income profit/loss statements for three years. Include a monthly cash flow chart for income and expenses for the first year.
7. Aerial Diagrams and Drawings - show the barn, adjoining lots, paddocks, pastures, water sources, fences and gates, service areas and driveway, include directions and major roads, neighbors, etc.
8. Cover Letter - introduce or position your enterprise plan, as it would be presented to an investor, customer, or financial lending agency. Be sure to address the impact of your operation on the surrounding neighborhood and environment.

<u>Grading Summary:</u>	<u>Points</u>
Preliminary project submission	15
Written Report	40
Clearly fits into the overall plan	
<b>Realistic</b> enterprise plan	
Attention to detail	
Neatness, organization, clarity	
Oral Presentation	45
Group cooperation and organization	
Visual clarity of overheads, posters	
Participation by everyone in presentation and questions	
Voice, delivery, dress, relating to audience	
<hr style="width: 10%; margin-left: auto; margin-right: 0;"/>	
Total Points	100

# ANSC 440 HORSE MANAGEMENT

Fall 2005

Horse Enterprise Teams

1:30 p.m.

3:30 p.m.

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## November 16<sup>th</sup> – IN LAB

Sara Kirby  
Clesea Macaluso  
Crystal McFarland

Colleen Mullen  
Krystle Perlich  
Sara Sharpnack

Sara Bradley  
Tommi Kreiter  
Craig Sappington

Alison Creed  
Katie Thackery  
Jennifer Winings

## November 30<sup>th</sup> – IN LAB

Erica Marshall  
Ambra Neier  
Jill Patterson  
Cody Schroeder

Ashley Meece  
Monica Miller  
Gail Newcomb  
Tim Schwanke

Sara Bradley  
Tommi Kreiter  
Craig Sappington

Alison Creed  
Katie Thackery  
Jennifer Winings

## December 7<sup>th</sup> – IN LAB

Laura Clark  
Sarah Jones  
Kelly Skinner

Laurene Ammend  
Beau Baird  
Jessica Eckert

Jennifer Cavanaugh  
Kelli Maxwell  
Laine Schad

Bryan Beer  
Nicole Cox  
Skye Robbins

Jessamyn Bacon  
Krissy Myer  
Katie Sweeney

Justin Busick  
Jami Day  
Lisa Scheffer