EQSCI 162 Course Outline as of Fall 2010

CATALOG INFORMATION

Dept and Nbr: EQSCI 162 Title: HORSE HOUSING/FACILITIES
Full Title: Horse Housing and Facilities
Last Reviewed: 4/12/2010

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.00	Lecture Scheduled	1.00	17.5	Lecture Scheduled	17.50
Minimum	1.00	Lab Scheduled	0.50	6	Lab Scheduled	8.75
		Contact DHR	0		Contact DHR	0
		Contact Total	1.50		Contact Total	26.25
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 35.00 Total Student Learning Hours: 61.25

Title 5 Category:	AA Degree Applicable
Grading:	Grade or P/NP
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	

Catalog Description:
Discussion of planning, design and layout of horse stables and facilities. Various types of materials and styles are reviewed. Barns, corrals, fencing and stable equipment for small or large horse ranches will be examined, including location, permitting, costs and environmental considerations.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Schedule of Classes Information:
Description: Discussion of planning, design and layout of horse stables and facilities. Various types of materials and styles are reviewed. Barns, corrals, fencing and stable equipment for small or large horse ranches will be examined, including location, permitting, costs and environmental considerations. (Grade or P/NP)
Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100
Limits on Enrollment:
Transfer Credit:
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**	Effective:	Inactive:
CSU GE:	**Transfer Area**	Effective:	Inactive:
IGETC:	**Transfer Area**	Effective:	Inactive:

CSU Transfer:	Effective:	Inactive:
UC Transfer:	Effective:	Inactive:

CID:

Certificate/Major Applicable:
Both Certificate and Major Applicable

COURSE CONTENT

Outcomes and Objectives:
Upon completion of this course, students will be able to:
1. Discuss welfare and environmental concerns related to equine facilities development and design.
2. Identify common materials used in fencing.
3. Identify barn styles, equipment and hardware.
4. Compare arena styles, sizes, and footing.
5. Analyze governmental agriculture construction codes and permits.
6. Evaluate economic factors associated with equine facilities development.
7. Assess common facilities in Sonoma County.
8. Determine appropriate construction materials for equine facilities based upon intended use.

Topics and Scope:

1. Animal welfare
   a. Physical considerations
      i. Temperature
      ii. Air quality
      iii. Stall space
      iv. Flooring
      v. Feed and water
   b. Social / Behavior
      i. Horse to horse interaction
      ii. Flight animal
      iii. Potential for vices
   c. Sanitation considerations
2. Regulations
   a. County building codes for equine facilities.

b. Environmental.
3. Climate considerations
4. Workflow considerations
5. Site characteristics
6. Horse barns and stables
   a. Intended use or purpose
   b. Barn construction styles and relative costs
   c. Architectural design
      i. Regional
      ii. Shape and function
      iii. Roof types
d. Barn function
      i. Stall size
      ii. Feed storage
      iii. Tack and equipment storage
      iv. Breeding accommodations
      v. Grooming and saddling
      vi. Wash area
      vii. Floors
      viii. Rolling equipment storage
      ix. Details and hardware
      x. Feeders
      xi. Waterers
      xii. Manure and bedding disposal
7. Fencing
   a. Considerations
      i. Purpose
      ii. Visibility
      iii. Strength and security
      iv. Safety
      v. Appearance
   b. Posts
   c. Pasture fence types
   d. Wood rail
   e. Specialties
   f. Electric
   g. Corral/paddock fencing
   h. Gates
8. Pasture shelters
   a. Purpose
   b. Construction
      i. Floor/Base
      ii. Walls
      iii. Roof
      iv. Location
9. Arenas
   a. Purpose
   b. Size
   c. Fencing
   d. Footing
   e. Indoor
   f. Drainage

10. Round Pens
    a. Purpose
    b. Styles
    c. Size
    d. Geometry of materials needed
    e. Footing
11. Equipment
    a. Waterers
    b. Troughs
    c. Hitching rails
    d. Hitching posts
    e. Trail gates
    f. Stall feeders
    g. Pasture feeders
    h. Wash racks
    i. Palpation chutes
    j. Vet chutes
    k. Harrow
    l. Carts
    m. Trailers
    n. Emergency prep

Assignment:

1. Suggested reading will be taken from periodicals and text; average 15 pages a week.
2. Worksheets, class notes, field work notes, and study guides will be the basis for problem solving assignments.
3. Facility design project paper
4. Final exam
5. Presentation of project papers
6. Field trip to equine facilities

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.	Writing 0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Project paper, field work	Problem solving 30 - 40%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Presentation of project paper, field work	Skill Demonstrations 30 - 40%

Exams: All forms of formal testing, other than skill performance exams.

Final Exam: Multiple choice, true/false, matching items, completion	Exams 30 - 40%

Other: Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation	Other Category 0 - 10%

Representative Textbooks and Materials:

Horse Housing, Klemish and Hill, Trafalgar Square Publishing 2002
Horse Facilities Handbook (MWPS-60), Midwest Plan Service, Iowa State Univ., Ames Iowa 2005
Horse Barns Big & Small 3rd Ed., Ambrosiano & Harcourt, Breakthrough Publications 2006
Roofs and Rails, Gavin Ehringer, Western Horseman Books. 1995
High Tensile Wire Fencing, Northeast Regional Agricultural Engineering Services. 2002
Stablekeeping, Klemish and Hill, Storey Publishing 2000
Horsekeeping on a Small Acreage, Cherry Hill, Storey Publishing 2005
Fences for Pasture & Garden, Gail Damerow, Gardenway Publishing, 1992 (Classic)