

LANDSCAPE ARCHITECTURE

443*. Community Project Design I
 Fall. 4(2-4)
 P: LA 342. R: Open only to students in Landscape Architecture with an urban design cognate and to students in Urban Planning. Development of design solutions for medium scale site development projects focusing on moderately complex design programs and problems.
 QP: LA340L QA: LA 342 LA 346

444*. Community Project Design II
 Spring. 4(2-4)
 P: LA 443. R: Open only to students in Landscape Architecture. The community systems planning process. Application of multiple use theory and techniques. Integration of project demands and community infrastructure.
 QP: LA 340L QA: LA 342 LA 346

445*. Advanced Project Design
 Fall. 4(0-8)
 P: LA 444, LA 480. R: Open only to students in Landscape Architecture. Application of design theory to complex site development projects in community settings. Interaction of human activities, sites, and end uses. Use of community feedback.
 QP: LA 444 LA 480 QA: LA 448

473*. Urban Design Theory
 Fall. 3(3-0)
 R: Not open to freshmen and sophomores. Concepts and procedures for the organization, design, and development of public and private urban forms and spaces. Focus on American communities.
 QA: LA 403 LA 471

480*. Professional Practice
 Spring. 3(2-2)
 P: LA 443. R: Open only to seniors and graduate students in Landscape Architecture. Principles and procedures of professional office practice. Organization and management of offices, personnel, and projects. Ethical and legal issues.
 QP: LA 346 QA: LA 480

490*. Independent Study
 Fall, Spring. 3 to 4 credits. May reenroll for a maximum of 7 credits.
 R: Open only to students in Landscape Architecture. Approval of department. Individual investigation of landscape architecture topics in the interest areas of the Landscape Architecture faculty.
 QA: LA 490

490H*. Honors in Landscape Architecture
 Fall, Spring. 3 to 4 credits. May reenroll for a maximum of 7 credits.
 R: Open only to Honors College seniors. Approval of department. Supervised individual investigation of Landscape Architecture topics.
 QA: LA 400H

492*. Senior Research Seminar
 Spring. 3(2-2)
 R: Open only to seniors and graduate students in Landscape Architecture. Contemporary issues of relevance to the profession.
 QA: LA 483

493*. Internship in Landscape Architecture
 Fall, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 8 credits.
 R: Seniors in Landscape Architecture or approval of department. Supervised experience in approved public agencies and professional offices.
 QA: LA 489

LARGE ANIMAL CLINICAL SCIENCES LCS

412*. Principles of Production Medicine
 Spring. 2(2-0)
 P: None. C: None. R: Junior or Senior Agriculture and Natural Resources Agriculture Fundamentals of animal health with special emphasis on infectious, parasitic and metabolic disease control and prevention. Principles of production medicine will be developed.
 QP: NONE QA: LCS 412

620*. Equine Medicine and Surgery Clerkship
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 of the College of Veterinary Medicine. R: College of Veterinary Medicine. Veterinary Medicine none Concepts and supervised practice in equine medicine and surgery. Emphasis on diagnosis, prognosis, treatment and disease prevention.

621*. Equine Field Service Clerkship
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 of the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none Diagnosis, treatment and prevention of common diseases of horses in a field setting.

622*. Advanced Equine Medicine and Surgery Clerkship
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 and LCS 651 R: College of Veterinary Medicine Veterinary Medicine none In-depth, supervised equine medicine and surgery.

623*. Equine Musculoskeletal Diseases Clerkship
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 of the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none Techniques and procedures used for the diagnosis and management of a variety of equine musculoskeletal diseases utilizing hospitalized and field cases.

624*. Equine Theriogenology Clerkship
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 of the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none Provide clinical experience with emphasis on diagnostic methods utilized in equine reproduction.

625*. Equine Herd Health Clerkship
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 of the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none Establishing and maintaining equine herd health programs. Reproduction, parasite control, immunization, and diagnostic medicine and surgery in the field.

630*. Food Animal Medicine and Surgery Clerkship
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 of the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none Disease diagnosis and therapy of food animal species in a hospital setting with an emphasis on the disease process as it relates to the herd of origin.

631*. Introductory Food Animal Production Medicine
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 of the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none Training relative to management of on-farm environment. An epidemiological approach to problem solving involving total herd medicine.

632*. Advanced Food Animal Medicine and Surgery Clerkship
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 and LCS 630. R: College of Veterinary Medicine Veterinary Medicine none Advanced, supervised food animal medicine and surgery.

633*. Dairy Production Medicine Clerkship
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 and LCS 631. R: College of Veterinary Medicine Veterinary Medicine none Dairy farm and herd health management. Record keeping, general management, housing, nutrition and mastitis control will be emphasized.

634*. Swine Production Medicine Clerkship
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 and LCS 631. R: College of Veterinary Medicine Veterinary Medicine none Swine diseases and related production problems encountered in swine herd health programs.

640*. Large Animal Anesthesia Clerkship
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 of the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none Concepts and supervised practice in large animal anesthesiology.

642*. Special Problems-Research Clerkship
 Fall, Spring, Summer. 2(-)
 P: Completion of Year 3 of the College of Veterinary Medicine R: Year 4 College of Veterinary Medicine Veterinary Medicine none Research related to a large animal specialty.

644*. Theriogenology Clerkship
 Spring, Summer. 2(-)
 P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none Provide hands-on clinical experience with diagnostic methods utilized in large animal reproduction.

LARGE ANIMAL CLINICAL SCIENCES

- 650*. Equine Medicine and Surgery Clerkship**
 Fall, Spring, Summer. 6(-)
 P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
 Concepts and supervised practice in equine medicine and surgery. Emphasis on diagnosis, prognosis, treatment and disease prevention.
- 651*. Equine Musculoskeletal Disease Clerkship**
 Fall. 2(-)
 P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
 Techniques and procedures used for the diagnosis and management of a variety of equine musculoskeletal diseases utilizing hospitalized and field cases.
- 654*. Advanced Equine Medicine and Surgery Clerkship**
 Spring. 2(-)
 P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
 In-depth, supervised equine medicine and surgery.
- 656*. Large Animal Anesthesiology Clerkship**
 Fall, Spring, Summer. 2(-)
 P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
 Concepts and supervised practice in large animal anesthesiology.
- 660*. Field Service/ Food Animal Clerkship**
 Fall, Spring, Summer. 6(-)
 P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
 Management of both individual and herd animal disease problems in both a hospital and on-farm environment. Skills in theriogenology. Introduction to principles of herd health management and clinical epidemiology.
- 664*. Dairy Herd Health Clerkship**
 Fall, Spring. 2(-)
 P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
 Dairy farm and herd health management, record keeping, general management, housing, nutrition and mastitis control will be emphasized.
- 666*. Equine Herd Health Clerkship**
 Fall. 2(-)
 P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
 Establishing and maintaining herd health programs for equine operations.
- 668*. Swine Herd Health Clerkship**
 Fall, Spring. 2(-)
 P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
 Swine diseases and related production problems encountered in swine herd health programs.
- 672*. Advanced Food Animal Clerkship**
 Spring. 2(-)
 P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
 Advanced, supervised food animal surgery and medicine.
- 674*. Preceptorship**
 Fall, Spring, Summer. 2(-)
 P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
 Applied large animal clinical science. Students participate in all the activities in assigned private practices tutored by practitioners with adjunct faculty appointments.
- 676*. Veterinary Nutrition for Livestock Clerkship**
 Fall, Spring. 2(-)
 P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
 Evaluating the nutritional status and rations of livestock.
- 677*. Veterinary Preceptorship**
 Fall, Spring, Summer. 3(-) May reenroll for a maximum of 6 credits.
 P: Completion of semesters 1-5 of the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none
 Applied large animal clinical science. Students participate in all activities in assigned private practices tutored by practitioners with adjunct faculty appointments.
- 809*. Special Problems in Large Animal Surgery**
 Fall, Spring, Summer. 1 to 3 credits.
 May reenroll for a maximum of 9 credits.
 P: Approval of department R: MS and PhD graduate students Veterinary Medicine Large Animal Clinical Sciences
 Elective work in selected surgical research problems compatible with student's interest and ability.
- 811*. Special Problems in Large Animal Medicine**
 Fall, Spring, Summer. 1 to 3 credits.
 May reenroll for a maximum of 9 credits.
 P: Approval of department R: MS and PhD students Veterinary Medicine Large Animal Clinical Sciences
 Elective work in selected medicine related research problems compatible with student's interest and ability.
- 813*. Seminar**
 Fall, Spring, Summer. 1(01-00)
 P: Approval of department R: MS and PhD students Veterinary Medicine Large and Small Animal Clinical Sciences
 Presentations and discussions by departmental graduate students, faculty, or outside speakers on current topics
- 825*. Experimental Surgical Techniques for Animal Research**
 Fall of odd-numbered years. 2(01-02)
 P: B.S. Degree or equivalent, Approval of Department R: MS and PhD graduate students
 Fundamentals of humane treatment of animals, anesthesia, aseptic surgical techniques, instrumentation for surgery, suture materials and patterns, tissue handling and wound healing for experimental animal research.
- 827*. Comparative Theriogenology**
 Spring of even-numbered years. 2(02-00)
 P: VM 580, Approval of department R: MS and PhD students Veterinary Medicine Large and Small Animal Clinical Sciences
 Provide the student with the information on comparative pathophysiology of the reproductive system of domestic animals with the emphasis on clinical theriogenology
- 828*. Tropical Animal Health**
 Spring. 2(02-00)
 P: Professional Student in CVM, CHM or COM, Approval of Department
 Course provided an overview of the importance of animal health in the tropics and the impact on agriculture, the livestock industry and human welfare
- 829*. Design and Conduct of Epidemiological Studies and Clinical Trials**
 Spring. 2(02-00)
 P: VM 554 or its equivalent, approval of department R: MS or PhD graduate students
 Advanced epidemiology with emphasis on applied analytical methods used in experimental design. Special consideration will be given to assessing health and disease status of animal and human populations, risk assessment and interpretation of clinical trials
- 899*. Master's Thesis Research**
 Fall, Spring, Summer. 1 to 12 credits.
 May reenroll for a maximum of 18 credits.
 C: Approval of Department R: MS graduate students Veterinary Medicine Large Animal Clinical Sciences
 Research on thesis problems
- 901*. Investigating the Lung**
 Fall of even-numbered years. 2(02-00)
 Interdepartmental with the Department(s) of Physiology, Pathology.
 P: Approval of department R: MS and PhD students Veterinary Medicine Large Animal, Small Animal, Physiology, Pathology
 Classic and current concepts of respiratory structure and function in health and disease and mechanisms of lung injury
- 999*. Doctoral Dissertation Research**
 Fall, Spring, Summer. 1 to 12 credits.
 May reenroll for a maximum of 99 credits.
 P: Approval of Department R: PhD graduate students Veterinary Medicine Large Animal Clinical Sciences
 Credit given for conducting animal disease research under guidance of mentor(s), completing dissertation and defending dissertation.

LATIN

LTN

- 101*. Elementary Latin I**
 Fall. 4(4-1)
 R: No previous experience in Latin or designated score on Latin placement test.
 Fundamentals of vocabulary, grammar, and syntax. Translation of elementary readings.
 QA: LTN 101 LTN 102
- 102*. Elementary Latin II**
 Spring. 4(4-1)
 P: LTN 101 or designated score on Latin placement test. R: LTN 101 or placement
 Continued study of the fundamentals of vocabulary, grammar, and syntax. Translation of elementary readings.
 QP: LTN 102 QA: LTN 103