

of five examinations per curriculum area is required. Prerequisites:
All applicable curriculum subjects must have been completed.

Fall, Spring

AVMT237

Alt (4)

Aircraft Hydraulic, Pneumatic, and Landing Gear Systems

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BS: Animal Science

Major requirements—40

AGRI100, 405; ANSI14, 305, 425, plus 24-25 credits in a special

of choice for the most current and detailed information. A list of accredited colleges of veterinary medicine may be obtained from the American Veterinary Medical Association, 930 North Meacham Road, Schaumburg, IL 60196; <http://www.avma.org>.

Students in consultation with their advisors in the Agriculture Department can design individualized programs of study to meet the entrance requirements of the veterinary school of choice. The required prerequisite pre-veterinary courses are usually general biology, general and organic chemistry, physics, biochemistry, mathematics, courses in animal science, and general education.

Courses

(Credits)

See inside front cover for symbol code.

AGRICULTURE

AGRI100

(1)

College Success Seminar

A survey of the history of agriculture in the U.S. and career

ANSI379 **Alt (2)**

Small Animal Health and Disease

A survey of proper handling and care, nutritional needs, and common health problems of companion animals such as dogs, cats, and birds. *Fall*

ANSI420 **\$ Alt (4)**

Canine Gross Anatomy

Study of macroscopic skeleton, muscles, internal organs, blood vessels and nerves using preserved, latex-injected specimens. Comparisons made with the live dog through palpation. Weekly: 2 lectures and 2 three-hour labs. Prerequisite: BIOL166. *Fall*

ANSI425 **Alt (3)**

Issues in Animal Agriculture, Research and Medicine

Study of the ethical issues that challenge animal researchers, producers, caretakers, and veterinarians to treat animals humanely yet effectively in society today. *Spring*

ANSI440 **\$ Alt (3)**

Animal Reproduction

Study of anatomy and physiology of farm animal reproduction including lactation, which explores the cellular component as well as the management aspects. Weekly: 2 lectures and a 3-hour lab. Prerequisite: BIOL166. *Spring*

ANSI445 **Alt (3)**

Physiology of Farm Animals

Physiology of digestive, reproductive, lactation, cardiovascular, pulmonary, excretory, nervous, and skeletomuscular systems in domesticated ruminants and monogastrics. Prerequisite: BIOL166. *Fall*

HORTICULTURE

HORT105 **\$ (5)**

Plant Science

Intended to acquaint students with the requirements of plant growth and development. Understanding of these processes is gained by studying topics such as plant cells, tissue, and organ structure; photosynthesis, cellular respiration, plant reproduction, including flowering, fruit development, seed set, the role of hormones, and plant nutrition. Weekly: 4 lectures and a 3-hour lab. *Fall*

HORT135 **\$ (4)**

Landscape Drafting and Design

Develops proficiency in technical drafting for landscape design including symbols, title blocks, plant legends and plan organization. Principles of design, site analysis, functional diagramming, circulation, spatial planes, design schematics and plant selection are explored. Laboratory puts the design process to work in drawing plans for residential design. Weekly: 3 lectures and a 3-hour lab. *Fall*

HORT208 **\$ Alt (3)**

Propagation of Horticultural Plants

Intended to acquaint students with the processes of asexual reproduction, especially as it applies to the horticultural industry. Asexual reproduction investigates methods of clonal reproduction utilizing non-flowering plant parts such as cutting, grafting, layering, and micropropagation (tissue culture)ed specimens.g4F.2 0 y goin9.6872 0 TD 0 Tw (Spring)Tj /F13 y goin9T* -0.0001 Tc 0.0251E55 d birds.

optimal development through temperature, humidity, light, nutrients, sanitation and carbon dioxide levels. Structures, coverings and mechanical systems used are explored to produce the most cost-effective horticultural crops. Weekly: 2 hours lecture and a 3-hour lab. *Fall*

HORT360

\$ Alt (3)

Arboriculture

Care of shade and ornamental trees living under environmental stress of urbanization, their legal protection and value. Includes