Smith Hall, Room 109
(269) 471-6006
Fax: (269) 471-3009
agri@andrews.edu
http://www.andrews.edu/COT/AG

Faculty
Thomas N. Chittick,
Stanley Beikmann
Katherine Koudele
Ralph C. Wood

BS: Animal Science
Major requirements—40
AGRI405; ANSI114, 305, 425, plus 19–21 credits in a special area of emphasis and 6–10 major electives chosen in consultation with an advisor.
Cognate requirements—18
BIOL165, 166; CHEM131, 132

Animal Science Areas of Emphasis
Students may choose an area of emphasis from the following or develop a personalized program in consultation with their advisor to meet specific career goals.

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major elective credits chosen in consultation with advisor.
Cognate requirements—18
BIOL165,166; CHEM131, 132

BT: Horticulture

Major requirements—60
AGRI118, 240, 308, 405; HORT105, 135, 226, 228, 315, 346, 378, plus 17–18 credits in a special area of emphasis, and 7–8 major elective credits chosen in consultation with advisor.
Cognate requirement—4
CHEM110

Horticulture Areas of Emphasis in BT Degree Programs

Students may choose an area of emphasis from the following or develop a personalized program in consultation with their advisor to meet specific career goals.

Landscape Design—16
HORT350, 365, 375, 429, 448. The landscape design program emphasizes the development of technical drawing skills, an understanding of the principles of design, and a knowledge of plant material.

Landscape Management—17
HORT208, 211, 217. Select 9 credits from the following: HORT212, 350, 359, 360, 375. The landscape management emphasis features proper horticultural practice, identification of landscape plants, selection of appropriate equipment, and the concept of total maintenance.

AT: Agriculture

Major Requirements—25-36
ANSI114, 305, 340, plus 15-24 credits in a special area of emphasis (see below) and 1–2 major elective credits chosen in consultation with advisor.

Agriculture Program Emphasis in Associate Degree Programs

Students may choose an area of emphasis from the following or develop a personalized program in consultation with their advisor to meet specific career goals.

Crop Production—24
AGRI118, 206, 240, 300, 395; HORT105
Cognate requirement—4
CHEM110

Dairy Herd Management—25
AGRI270, 304, 395; ANSI250, 278, 430, 440
Cognate requirements—4
CHEM110

Veterinary Assistant—15
AGRI395; ANSI240, 379, 420
Cognate requirements—15
CHEM110; CLSC101, 102, 230, 250, 260

AT: Horticulture

Major requirements—35
AGRI118, 405; HORT105, plus 13–16 credits in a special area of emphasis (see below) and 8–11 major elective credits chosen in consultation with advisor.
Cognate requirement—4
CHEM110

Horticulture Program Emphases in Associate Degree Programs

Students may choose an area of emphasis from the following or develop a personalized program in consultation with their advisor to meet specific career goals.

Landscape Design—13
HORT135, 226, 228, 350
Landscape Management—16
HORT208, 211, 217, 226, 228, 346

Minors in Agriculture, Animal Science or Horticulture—20

Selected from AGRI, ANSI or HORT courses in consultation with advisor.

PRE PROFESSIONAL PROGRAM IN VETERINARY MEDICINE

Katherine Koudele,
(269) 471-6299

Entrance requirements vary among the colleges of veterinary medicine. Therefore, interested students must write to the schools 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.

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AGRI240   **Alt (3)**

Design, installation, drawing, interpretation and maintenance of
plastic or metal irrigation systems and control devices for proper
sprinkler coverage.

AGRI270   **Alt (3)**

An introduction to acquiring and analysis of management infor-
mation for decision making; an understanding of basic economic
principles that impact biological production systems and imple-
mentation of the principles for total q(TjET7pr62 1 Tc 9 55 6f7n55 7l55 Tm0 9 55 6311 Tf9 0 0ased-24(impact)-2v4(f)66([sprinkler)-25(coverage.)]TJ 1

ANSI420   **$ Alt (4)**

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. Recommended: BIOL166.

ANSI425   **Alt (3)**

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

ANSI430   **Alt (2)**

Anatomy and physiology of the udder, milk secretion, disease pre-
vention and treatment, milking management and milking systems.

ANSI435   **Alt (3)**

A study of basic genetics, cytogenetics, immunogenetics, popula-
tion genetics and quantitative genetics, biotechnology, gene map-
ping and the use of molecular tools to research inherited disorders.
Included are descriptions of how veterinary genetics can be
applied to artificial selection in animal production, information on
the control of inherited disorders and the conservation of genetic
diversity in both domesticated and wild animal species.

ANSI440   **$ Alt (3)**

HORT359   **$ Alt (3)**

Controlling the plant environment to enhance plant growth and 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.

HORT360   **$ Alt (3)**

Care of shade and ornamental trees living under environmental stress of urbanization, their legal protection and value. Includes tree anatomy and physiology, soils, nutrition and water relation-ships, transplanting, disease and insect control, mechanical injury and pruning to develop a healthy tree. Weekly: 2 lectures and a 3-hour lab.

HORT365   **$ Alt (3)**

Designing landscapes to meet the environmental challenges and conditions of urban spaces. Circulation patterns for conducting business, aesthetic and functional aspects of design for corporate/institutional, governmental agencies and municipal areas. Weekly: 2 lectures and a 3-hour lab. Recommended: HORT135.

HORT375   **Alt (3)**

An introduction to the estimating process for landscape design, construction and maintenance work. Various schedules and forms are used to assign costs of equipment, plants, hardscape materials, labor and overhead. The many variables from project to project are explored and then formulas are applied to arrive at making landscape installations an efficient and profitable business.

HORT378   **Alt (4)**

Study of significant diseases and pests of agricultural and horticultural plant materials, including life cycles and influence of environmental conditions; determination of effective control methods for crop, ornamental and turfgrass production.

HORT429   **$ Alt (3)**

Principles and practices of computer-aided landscape design, including creating scale perimeter plot plans, using drawing tools, plant/site relationships, and graphic imaging leading to a computer-generated landscape drawing. Laboratory emphasizes skill devel-opment and proficiency in integrating software and hardware to create CAD-generated landscape designs. Prior landscape drawing course work is recommended.

HORT448   **$ Alt (4)**

Landscape design concepts relating to the more challenging problems of residential design. Field application of grading relating to contours, specifications, exploring deck design, planting combinations, and exercises in graphics and rendering for presentations. Weekly: 3 lectures and a 3-hour lab. Recommended: HORT135.

Harrigan Hall, Room 227
(269) 471-3450 or (800) 909-8812
Fax: (269) 471-6655
rchurch@andrews.edu
http://www.andrews.edu/COT/

Faculty
Rodrick A. Church,
Jeffrey E. Forsythe
Sharon J. Prest
David B. Sherwin
Renee A. Skeete
Marc G. Ullom

PROGRAMS

Bachelor of Fine Arts—72–75

The three closely related departments of Art & Design, Communication, and Digital Media & Photography offer students an exciting opportunity to earn a collaborative Bachelor of Fine Arts degree (BFA). This degree incorporates core subjects in these three areas, with a major in the career field of choice. The degree will be shaped to match the goals of the students, and to meet the needs of the marketplace, whether in the world of art, communi-