# Feed Mill (FM)

## FM 272  Swine Feed Mill Management  (1 credit hours)
Principles of feed manufacturing, equipment operation, feed and ingredient quality assurance and regulatory compliance in a modern feed milling operation. Overview of feed mill regulations and safety.

Prerequisite: ANS 150 or ANS 260 or Equivalent

Restriction: Restricted to non-ANS (Animal Science) students. ANS students cannot take the course for credit.

**Typically offered in Fall only**

## FM 425/PO 425/NTR 525/FM 525/ANS 525/PO 525/NTR 425/

## FM 426/PO 426  Feed Manufacturing Technology Laboratory  (1 credit hours)
Laboratory associated with feed mill management, feed ingredient purchasing, inventory, storage, and quality evaluation, computerized feed formulation, feeding programs for poultry and swine, feed mill design, equipment, maintenance, operation, safety, state and federal regulations pertaining to feed manufacture.

Prerequisite: ANS(NTR,PO) 415 or ANS 230 or ANS 225

**Typically offered in Fall and Spring**

## FM 460/FM 560  Feed Mill Operations and Leadership  (3 credit hours)
Principles and current practices of modern feed mill operations. Topics include managing employees, team building, safety, budgets, regulations, and key performance indicators.

Prerequisite: ANS 425 or FM 425 or PO 425

**Typically offered in Spring only**

## FM 525/ANS 525/PO 525/NTR 425/ANS 425/FM 425/PO 425/

## FM 594  Advanced Feed Mill Practicum  (1 credit hours)
This course will teach students the principles of operating a modern feed mill. Students will receive ingredients, grind grain, manufacture feed, and perform quality checks on finished feed products. Students will complete safety, quality assurance, and feed processing training units as part of their training.

Prerequisite: NTR(FM) 525

**Typically offered in Fall only**

## FM 706/NTR 706  Vitamin Metabolism  (3 credit hours)
Structures, chemical and physical properties, functions, distribution, absorption, transport, metabolism, storage, excretion, deficiencies, and toxicity of vitamins in humans and domestic animals. Interactions between vitamins and other factors affecting vitamin metabolism or bioavailability as well as the nutritional significance of essential fatty acids and metabolism of prostaglandins, prostacyclins and leukotrienes. Application of knowledge will include critical review of scientific literature, experimental design, and formulation of vitamin supplements.

Prerequisite: ANS(NTR,PO) 415 and BCH 453

**Typically offered in Fall only**

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*Typically offered in Fall only*
FM 790/NTR 790 Advanced Feed Formulation (3 credit hours)
Principles of feed and ingredient quality assurance and how to develop a comprehensive quality assurance program. The course will include the development of an approved supplier list, ingredient specifications, feed manufacturing quality assurance procedures, and risk based feed safety programs.

Prerequisite: NTR(FM) 525
Typically offered in Fall only