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* **Provide a brief summary of the proposed program changes and describe the rationale for the change(s):**

The Department of Animal & Food Sciences offers B.S. degrees in Animal Science, Pre-veterinary Medicine and Animal Biosciences, and Food Science.  We anticipate that a new non-thesis option to the M.S.degree in Animal and Food Sciences will serve the needs of multiple groups of individuals.  First, we have a successful program that in 2017, placed approximately 35 of 45 students of our students that applied to Veterinary Schools.  Almost all students who are not accepted to Veterinary School on their first attempt, continue to apply a second or even third time.  Thus, gaining more educational experience and showing an ability to excel in graduate level courses readily assists these students during their subsequent applications. Graduates that major in animal science are interested in pursuing careers in the animal industries and the non-thesis option can provide graduates with new tools for pursuing a science-related careers in cooperative extension, industry, government, service, non-profit or other fields related to the animal and/or food sciences. Thirdly, there are individuals in the workplace that seek additional training that can be used to enhance their core competencies in an ever rapidly evolving job market.

* **List new courses required for the revised curriculum. How do they support the overall program objectives of the major/ minor/ concentrations)?**

No new courses are required however the new curriculum includes courses grouped into the topics below which when combined with the animal or food science core, will prepare graduates for leadership and admisintrative positions in science-related careers in cooperative extension, industry, government, service, non-profit or other fields related to the animal and/or food sciences.

**Ethics Course**

* + UAPP 650 - Values and Ethics of Leadership (3cr.)
  + BUAD 840 - Ethical Issues in Domestic and Global Business Environments (3cr.)

**Leadership and Organization**

* + BUAD 870 - Managing People, Teams, and Organizations (3cr.)
  + BUAD 878 - Leading Across Boundaries (3 cr.)
  + UAPP 604 - Leadership in Organizations (3cr.)
  + UAPP 697 - Leading Organizations in Public & NP Sectors (3cr.)

**Project Management, Operations or Entrepreneurship**

* + BUAD 835 - Managing New Product Development Projects (3cr.)
  + ENTR 616 – Applied Creativity (3cr.)
  + ENTR 658 – Application Development for New Technology (3 cr.)
  + ENTR 660 - High Technology Entrepreneurship (3cr.)
  + MISY 840 - Project Management and Costing (3cr.)
  + UAPP 689 - Information Technology & Management of Public & NP Orgs (3cr.) UAPP 684 Performance Management and Program Evaluation  (3cr.)

**Statistics**

·STAT 608 -Surveys and Economic Experiments

·BISC 643 - Biological data analysis

·STAT 656 - Biostatistics

* **Identify other units affected by the proposed changes and provide letters of support from those units. :**

The curriculum includes courses from APEC/STAT, ENTR, UAPP, BUAD, BISC and MISY. Letters of support from those departments are attached.  Also attached is a letter of support from the library.

(Please note this was originally proposed as a "professional" degree rather than a non-thesis option to the MS and the letters may reflect that title.)

* **Prospective Curriculum:\***
  + **ANFS - 665 - Seminar (1 to 3cr.)**
  + **ANFS - 666 - SPECIAL PROBLEM (1 to 12cr.)**
  + **APEC - 609 - Surveys and Economic Experiments (3cr.)**
  + **ART - 616 - Applied Creativity (3cr.)**
  + **BISC - 643 - Biological data analysis (3cr.)**
  + **BUAD - 835 - Managing New Product Development Projects (3cr.)**
  + **BUAD - 840 - Ethical Issues in Domestic and Global Business Environments (3cr.)**
  + **BUAD - 870 - Managing People, Teams, and Organizations (3cr.)**
  + **BUAD - 878 - Leading Across Boundaries (3cr.)**
  + **ELEG - 660 - High Technology Entrepreneurship (3cr.)**
  + **ENTR - 658 - App Development for New Technology (3cr.)**
  + **MISY - 840 - Project Management and Costing (3cr.)**
  + **STAT - 656 - Biostatistics (3cr.)**
  + **UAPP - 604 - Leadership in Organizations (3cr.)**
  + **UAPP - 650 - Values and Ethics of Leadership (3cr.)**
  + **UAPP - 684 - Performance Management and Program Evaluation (3cr.)**
  + **UAPP - 689 - Information Technology & Management of Public & NP Orgs (3cr.)**
  + **UAPP - 697 - Leading Organizations in Public & NP Sectors (3cr.)**

**Proposal Toolbox**