TABLE OF CONTENTS

TABLE OF CONTENTS ................................................................. 2
INTRODUCTION .................................................................................. 4
STATEMENT OF GOALS .................................................................... 4
PROFESSIONAL DEGREE .................................................................. 4
  Learning Goals ........................................................................... 4
APPLICATION, ADMISSION, REGISTRATION, SCHEDULING ............... 5
  Admission Requirements ............................................................... 5
  Registration & Scheduling ............................................................. 6
  Transfer Credit............................................................................. 6
  Curriculum.................................................................................... 6
    Master of Animal Sciences Core Courses (9 credit hours) .................. 7
    Required Courses in Animal Sciences Specialization (11-12 credit hrs) . 7
    Required Courses in Animal Nutrition Specialization (12 credit hrs) .... 8
    Required Courses in Meat Science Specialization (13 credit hrs) ....... 8
    Electives Courses (13-14 credit hrs) ........................................... 8
  Academic Standards ....................................................................... 9
  Permanent Record ......................................................................... 9
  Final Examination ......................................................................... 9
  Communication ............................................................................ 10
GENERAL EXPECTATIONS ............................................................... 10
  Health and Safety ......................................................................... 10
  Seminars ...................................................................................... 10
  Forms ........................................................................................... 10
GRIEVANCE PROCEDURE ................................................................ 10
  Levels of Appeal .......................................................................... 10
THE GRADUATE SCHOOL AND THE DEPARTMENT OF ANIMAL SCIENCES 11
  The Graduate School ..................................................................... 11
  Graduate Studies Committee .......................................................... 11
  Graduate Faculty Membership ....................................................... 11
POTENTIAL GRADUATE FACULTY ADVISORS .................................. 12
  Chair ............................................................................................ 12
  Associate Chair .......................................................................... 12
  Graduate Studies Committee Chair ............................................... 12
  Graduate Faculty ......................................................................... 12
Appendix A ..................................................................................... 14
INTRODUCTION

This document presents the policies of the Department of Animal Sciences that relate to graduate students who will pursue a Master in Animal Sciences (MAS) degree and is intended to supplement the Graduate School Handbook of The Ohio State University. Policies established in that handbook will be referenced when appropriate and therefore are not repeated in this Handbook. Students pursuing a Masters in Science (M.S.) degree or a Doctor of Philosophy (Ph.D.) degree in Animal Sciences should refer to the Graduate Program Handbook of the Department of Animal Sciences.


STATEMENT OF GOALS

The mission of the graduate program is to train intelligent and highly motivated students to become highly proficient contributors to society throughout their careers. The attributes necessary to achieve this goal are instilled in various ways. Basic knowledge of the sciences and their application to questions regarding function, management, and use of animals is imparted in formal courses offered both within the Department of Animal Sciences and in other Departments offering relevant graduate level courses. Through coursework, the students are required to develop the necessary depth in their given discipline of study and are also encouraged to acquire breadth in their understanding of the field of animal sciences to properly prepare them for careers in this field.

Growth and versatility of students as scientists are fostered by interactions among peers, with faculty, and with industry personnel. Opportunities are given to students to hone their abilities to communicate effectively. All the students are required to prepare and deliver seminars. Many of the graduate level courses in the Department require the writing of extensive papers and presentation to other students enrolled in the course. All are required to demonstrate their knowledge and competence in their chosen field of study, while thinking critically about the issues and challenges of the animal industry through writing.

Appropriate ethical behavior and the ability to make appropriate decisions regarding ethical matters are conveyed primarily by the example set by faculty. However, such training is also conveyed more explicitly in formal and informal meetings between faculty and students and in portions of formal courses offered by the Department.

PROFESSIONAL DEGREE

The MAS program aims to provide an applied, non-thesis degree for graduates and professionals. For recent graduates, the program is aimed at individuals who wish to increase their knowledge and competence at the graduate level in preparation for entering industry, attending professional school, or becoming an academic or outreach educator. The program is not structured for individuals seeking a research career in academia. The MAS program also serves working professionals who want to gain new knowledge concerning recent advancements in various subjects of animal sciences to promote their careers and fulfills continuing education needs of science educators.

The MAS offers a learning environment that is supportive of the applicant’s career intentions. Flexibility of courses that emphasize Animal Sciences principles, business, communication, education, etc. is an important component of the program.

Learning Goals

1. Demonstrate depth of knowledge of current information in their field of study;
2. Develop breadth of knowledge and demonstrate a holistic understanding of animal sciences;
3. Understand how to apply learned concepts and technology toward the advancement of the Animal Sciences industries;
4. Demonstrate the ability to communicate effectively, both orally and through writing;
5. Understand and appreciate the expectation of being a professional within their discipline.

APPLICATION, ADMISSION, REGISTRATION, SCHEDULING

Admission Requirements

Admission to the Department of Animal Sciences Graduate Program is selective. Applicants must meet the admission requirements and follow the application procedures outlined below.

To be considered for admission, students must have earned a baccalaureate or equivalent degree from an accredited college or university in Animal Sciences or a related area by the expected date of entry. A minimum of a 3.0 cumulative point-hour ratio (on the 4.0 scale used at this university) in all previous undergraduate and graduate work is required. Furthermore, the transcript must reflect sufficient background to be eligible to pursue graduate level Animal Sciences courses in the desired specialization. Applicants whose transcripts do not support sufficient background may be required to complete remedial courses for eligibility. Applicants must complete the Graduate Records Examination (GRE) with a score of 300 (verbal plus quantitative) or greater. An additional requirement for international applicants includes a minimum score of 79 on the internet-based Test of English as a Foreign Language (TOEFL; 550 on the paper-based TOEFL), 82 on the Michigan English Language Assessment Battery (MELAB), or 7.0 on the International English Language Testing System (IELTS). This requirement applies only to applicants from a country where the first language is not English, unless a bachelor’s degree or higher was earned in an English-speaking country. Students not meeting these requirements may be considered for conditional admission. Meeting these minimum criteria does not guarantee admission into the program. Admission decisions are also determined by availability of space in the program, availability of an advisor to advise the student, the student’s academic record, and area of interest.

Prospective students apply to the University Graduate School on-line through the OSU Graduate Admissions Office (http://www.gradsch.ohio-state.edu/applying-to-ohio-state.html). After a complete application is received, decisions regarding admissibility into the MAS graduate program are made through the Animal Sciences Graduate Studies Committee (GSC).

Examination Committees

Accepted students will be asked to identify a primary advisor before the end of the 12th week of classes during their first semester. If assistance in still required in finding an appropriate advisor after that date, students should seek guidance from the Department Chair. The advisor (and the other member(s) of the examination committee) should be in place by the start of the second semester to help plan out the specifics of the student’s personalized program (see MAS Degree Plan Form in the appendix). The MAS examination committee is composed of at least two Graduate Faculty members, and one of them serves as the student’s advisor. The advisor of a MAS student must hold the category M or P status in Animal Sciences. The other committee member must hold the category M or P status but does not have to reside within Animal Sciences. A MAS student may consider having a third committee member outside of the OSU community who is a professional in the industry. Additional non-Graduate Faculty members may be appointed to the examination committee upon approval by the Animal Sciences Graduate Studies Committee and petition to the Graduate School.
The MAS program is not intended to replace the traditional MS option currently offered by the Department. Lateral transfer between the MAS and MS programs is only permissible under special circumstances and must be approved by the Animal Sciences Graduate Studies Committee. In the instance that a student in the MAS program would decide to pursue the MS program, or vice versa, the student would be required to submit the Request for Transfer of Graduate Programs form available through the Graduate School. This form serves as the application to the program of interest, and the Graduate School admissions office is not involved in the process. The Department of Animal Sciences Graduate Studies Committee will approve or deny the requested transfer between programs. A maximum of 10 credit hours (can include 1 credit hour of ANIMSCI 888X) in which the student has earned a minimum grade of “B” are permitted for transfer to the desired program. Credit hours earned as ANIMSCI XX93 cannot be transferred between the two masters programs. MAS students are not eligible to take ANIMSCI 899X courses, except for ANMISCI 8997, which is a requirement.

Registration & Scheduling
(Section III - Graduate School Handbook)

Transfer Credit

Graduate credit hours earned at another university may be transferred to the MAS program. However, there are limitations and restrictions on the number of credit hours that can be transferred. The following minimum conditions must be satisfied to transfer graduate credit hours:

1. Letter graded, graduate credit hours were earned as a graduate student at an accredited university within the last five years.
2. A minimum grade of "B" or satisfactory was earned in each course to be transferred.
3. The GSC approved the transfer.

Curriculum

The curriculum requires a minimum of 35 credit hours of semester-based instruction (completed within a 5 year period), a final examination (in the form of a comprehensive written exam, professional project, research proposal, or culminating paper), and a seminar. Students must complete their program with a maximum of 50 total hours of credit (special circumstances require unanimous approval by the examination committee). Students are required to complete three sets of courses: the Core Courses (9 credit hours), one set of the Specialization Courses (Animal Sciences Specialization: 11 or 12 credit hours, Animal Nutrition Specialization: 12 credits hours, or Meat Science Specialization: 13 credit hours), and additional Elective Courses (13 to 15 credit hours depending on specialization) to complete the credit hour minimum. The Elective Courses are selected by the student and his/her examination committee (Appendix A). It is anticipated that some students will have completed some courses within a specialization as an undergraduate and they will need to add other courses to meet the programs minimum credit hour requirement. For example, a student who has taken three of the four required courses in the Animal Nutrition specialization may, with the guidance of his/her examination committee, take three additional graduate level nutrition courses to fulfill the 12 credit hour requirement. There also are opportunities for students to earn ANIMSCI XX93 credit for specialized mentored experiences conducted with industry partners. However, the maximum, total ANIMSCI XX93 credit hours cannot exceed six hours. As the MAS degree is not designed as a research degree, MAS students are not eligible for credit from taking ANIMSCI 8998 or 8999.
Master of Animal Sciences Core Courses (9 credit hours)

Every student pursuing the MAS degree program must complete the following courses:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANIMSCI 6000</td>
<td>Introduction to Graduate Studies in Animal Sciences</td>
<td>1 hr</td>
</tr>
<tr>
<td>ANIMSCI 6100</td>
<td>Research Interpretation and Writing in Animal Sciences</td>
<td>1 hr</td>
</tr>
<tr>
<td>ANIMSCI 7000</td>
<td>Applied Biometrics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 886X1</td>
<td>Seminar</td>
<td>1 hr</td>
</tr>
<tr>
<td>ANIMSCI 89972</td>
<td>Graduate Writing Experience in Animal Sciences: Non-thesis</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

1Students are expected to enroll in one of four seminars offered in Spring Semester (Nutrition, Physiology, Genetics, or Animal Products) and present a seminar (a minimum of 40 minutes in duration).

2Credit earned upon satisfactory completion of final examination requirements.

In addition, students must select one of three specializations: Animal Sciences (11 to 12 credit hours), Animal Nutrition (12 credits hours), or Meat Science (13 credit hours). See approved courses below:

Required Courses in Animal Sciences Specialization (11-12 credit hrs)

Courses in the Animal Sciences specialization are aimed at expanding knowledge in basic areas of Animal sciences principles.

Select ONE from the nutrition courses:

<table>
<thead>
<tr>
<th>Nutrition Courses</th>
<th>Course Title</th>
<th>Credit hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANIMSCI 5031</td>
<td>Ruminant Nutrition</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 5032</td>
<td>Non-ruminant Nutrition</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 5070</td>
<td>Nutritional Immunology in Animal Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 5530</td>
<td>Comparative Animal Nutrient Metabolism</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Select TWO from the systems biology courses:

<table>
<thead>
<tr>
<th>Systems Biology Courses</th>
<th>Course Title</th>
<th>Credit hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANIMSCI 6060</td>
<td>Reproductive Physiology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 5067</td>
<td>Physiology of Lactation</td>
<td>2 hrs</td>
</tr>
<tr>
<td>ANIMSCI 6090</td>
<td>Anaerobic Microbiology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 7730</td>
<td>Endocrinology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 8100</td>
<td>Advances in Physiology</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Select ONE from the tissue biology courses:

<table>
<thead>
<tr>
<th>Tissue Biology Courses</th>
<th>Course Title</th>
<th>Credit hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANIMSCI 5100</td>
<td>Advanced Growth and Development</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 5510</td>
<td>Advanced Meat Science</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
**Required Courses in Animal Nutrition Specialization (12 credit hrs)**

Courses in the Animal Nutrition specialization are aimed at expanding knowledge in nutrition across animal species.

Complete all of the following required courses:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANIMSCI 5031</td>
<td>Ruminant Nutrition</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 5032</td>
<td>Non-ruminant Nutrition</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 5070</td>
<td>Nutritional Immunology in Animal Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 5530(^1)</td>
<td>Comparative Animal Nutrient Metabolism</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

\(^1\)Requires course prerequisite

**Required Courses in Meat Science Specialization (13 credit hrs)**

Courses in the Meat Science specialization are aimed at expanding knowledge in tissue biology, processing, and food safety.

Complete all of the following required courses:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANIMSCI 5100</td>
<td>Advanced Growth and Development</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 5310</td>
<td>Auditing Processing Facilities</td>
<td>2 hrs</td>
</tr>
<tr>
<td>ANIMSCI 5410</td>
<td>Meat Industry Tour</td>
<td>2 hrs</td>
</tr>
<tr>
<td>ANIMSCI 5510</td>
<td>Advanced Meat Science</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 6510</td>
<td>Advanced Meat Technology</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**Electives Courses (13-14 credit hrs)**

Elective courses (see Appendix A) are selected by the student and his/her examination committee to reflect the personal interest and career intentions of the student. These courses can be from within or outside of the graduate coursework offered by the Department of Animal Sciences pending approval by the examination committee. Careful selection of courses helps the development in basic knowledge areas (animal sciences, natural sciences, health and disease, business), leadership, communication, and global awareness.

Graduate courses in the Department of Animal Sciences are not available for "Credit by Examination" (EM). All graduate courses in the Department of Animal Sciences are graded "A-E" except seminar (ANIMSCI 888X series) and special projects (ANIMSCI 6193, 6194, 8193, 9193). These courses are graded either Satisfactory (S) or Unsatisfactory (U). Students are allowed to repeat a course if they received a grade below "B" and their examination committee believes it would be beneficial for the student. It is imperative that continuing students schedule classes as soon as registration opens to avoid substantial late
fees charged by the University, as well as to guarantee a place in class.

**Academic Standards**

Students must meet the minimum 3.0 cumulative grade point average and reasonable progress towards the requirements outlined in the *Graduate School Handbook*, Section V.1. The GSC will periodically review grades and progress.

**Permanent Record**

The Department of Animal Sciences maintains a confidential file on each graduate student. This file contains: 1) letters of recommendation and the previous transcripts, 2) courses taken and grades earned, 3) seminars given, 5) examination committee approval, 6) approved culminating paper proposal, 7) proposed plan of study and expected completion date, 8) annual evaluation reports, and 9) final examination results.

**Final Examination**

Each student must pass a final examination that is intended to evaluate the student’s proficiency and understanding of his/her field of study and has a significant writing component. Regardless of final exam format (described below), completion of the final examination is reflected through a satisfactory grade in ANIMSCI 8997 (see core courses, page 6-7). Students must enroll in three credit hours of ANIMSCI 8997 during the term of expected graduation. Evaluation of the final examination is required of all members of the student’s examination committee, and unanimous approval (satisfactory) of the final examination by the examination committee is required. Students must adhere to all published Graduate School deadlines for graduation.

The final examination may take one of the four formats that provides student an opportunity to showcase their knowledge and competence in their field of study, while thinking critically about the issues/situations that can be challenging to the industry. One potential format for the final examination is a comprehensive written examination that is given during the last term of the MAS program. This comprehensive written examination will be a minimum of 4 hours as set forth by the criteria established in The Ohio State University Graduate School Handbook and should not exceed 8 hours (completed in one day). Members of the examination committee should be equally represented in questions included in the written exam. Three alternative options to be considered as the final examination include 1) a professional project, 2) a culminating paper, or 3) a research proposal. These alternative options for the final examination may be completed at any point during the student’s program and on the student’s own schedule, but evaluation of the project (or paper and proposal) will be performed during the final term of the program, and the performance is denoted by the grade received in ANIMSCI 8997 during this term. For students who choose one of these alternative options, the expectation is that they will present an exit seminar based upon their work that is followed by a short oral exam (one hour in length). The professional project will be detailed in a written report and may include the development of extension or outreach related materials, the development of educational materials and teaching of a course; or industry research, a special project, or internship. Additional scholarly and developmental activities in this regard can be considered. The culminating paper covers a topic relevant to the student’s field of specialization. For students pursuing the general Animal Sciences specialization, the topic must have a significant component in one of the discipline areas of the animal sciences. Similarly, the research proposal should be consistent with a published Request for Proposals from a funding entity (such as OARDC SEEDS) and in the student’s field of specialization. Regardless of the format chosen for the final examination, this exercise must involve analysis and synthesis of existing knowledge to explore a question or understand a current issue in animal sciences. Likewise, the final exam should consider the relevance of the work to their field of study, a discussion of what is not known in the area, and a presentation of future implications for the field. Ultimately, the examination
committee is responsible for determining the appropriateness of the selected examination format.

**Communication**

Graduate students are required to be included in the Animal Sciences graduate student listserv. Important information is distributed via this route. To activate your OSU Internet Username and create a password, go to: [www.oit.ohio-state.edu](http://www.oit.ohio-state.edu) and click on “Activate OSU Internet Username” then follow the prompts. An OSU Internet Username takes the form lastname.#.

**GENERAL EXPECTATIONS**

All graduate students are encouraged to participate in activities beyond those directly related to their graduate coursework program. Such activities include seminars, clubs, committees, extension education and other forms of activities that support Departmental missions.

**Health and Safety**

Students in the MAS program who are involved, even peripherally, in research are required to complete all training described in the Graduate Program Handbook for MS and Ph.D. students.

**Seminars**

All MAS students are required to give one seminar, usually as part of the 888X seminar series. For students that choose a final examination format other than the comprehensive written examination, one exit seminar is also required.

**Forms**

Most forms referred to in this document can be found at: [https://gradforms.osu.edu/grad-forms/](https://gradforms.osu.edu/grad-forms/).

**GRIEVANCE PROCEDURE**

A student should make every effort to resolve disputes with the party(ies) involved. If this is not possible, a written appeal can be submitted to the GSC through the grievance procedure described in this document.

Please review the grievance procedure before the need arises. Cooperation and communication are required on all sides to avoid unnecessary misunderstandings. The grievance procedure starts with a student's discussion with his or her faculty adviser. At each level of appeal, there are at least two possible results. The first, and most desirable result, is a faculty-student understanding, leading to a solution and thereby resolving the grievance. The second result provides a mechanism for the student to appeal to another party of higher authority that is further removed from the situation.

**Levels of Appeal**

1. Discussion with faculty adviser
2. Discussion between student and GSC chair
3. Presentation of grievance to entire GSC (either in person or in writing). A majority vote in the student's absence will determine a decision.
4. Appeal to the Department Chair (either in person or in writing)
5. Written appeal to the Department Chair's Advisory Committee
6. Department Chair and Student approach the Graduate School Dean

It is the Department's sincere hope that all grievances can be resolved at the first step. When further steps are required, everyone involved should understand the steps to be taken so personal conflicts do not develop and decrease our ability to work together towards a solution. Conflicts, which persist, hurt everyone. Grievances must be worked out rapidly and to the satisfaction of all concerned. If some policy of procedure is causing low morale, we all suffer. Graduate student/faculty relations are very important for the overall productivity of the Department. We encourage constant communication between students and faculty. If there is free and open communication, many misunderstandings can be corrected before they become grievances. Refer to the Graduate School Handbook Appendix D.

THE GRADUATE SCHOOL AND THE DEPARTMENT OF ANIMAL SCIENCES

The Graduate School

See Section I of the Graduate School Handbook (http://gradsch.osu.edu/graduate-school-handbook1.html) for information on the structure of the Graduate School and the Council on Research and Graduate Studies. The Department of Animal Sciences graduate faculty is committed to maintain an outstanding program of graduate study operated through the GSC.

Graduate Studies Committee

The GSC Chair is a Category P graduate faculty member elected by the faculty to serve a three-year term. The GSC Chair is eligible for re-election. Three additional graduate faculty members are elected by the faculty to serve three-year staggered terms. One member is reelected or replaced each year. If a member of the GSC is elected as chair, a replacement will be elected to serve the remainder of his/her term. The Department Chair will serve as a member of the Graduate Studies Committee. One graduate student will be elected by the graduate students to serve a one year term as a non-voting member of the GSC. Responsibilities of the GSC are spelled out in Section XIV of the Graduate School Handbook. A Departmental support staff individual will be assigned to coordinate graduate studies activities.

In addition to other duties mentioned in this document, the GSC will review course proposals or other curriculum issues related to the graduate program. Course proposals and other reviews will be forwarded to the Academic Affairs Committee and should include an assessment of how the proposal enhances the Animal Sciences graduate program. The Academic Affairs Committee will be responsible for the administrative aspects of the documentation and approval of these graduate courses.

Graduate Faculty Membership

The Graduate School at OSU determines requirements for Graduate Faculty status; Category M is necessary to mentor MAS and MS students; and Category P is required to mentor PhD students (see Section XV of the Graduate School Handbook). The Graduate Faculty members of the Department of Animal Sciences believe that the desire to counsel students as a mentor is an integral part of graduate faculty membership. All faculty members with an appointment in the Department of Animal Sciences are eligible to be members of the Animal Sciences Graduate Faculty.
The qualifications for Category M status are that an individual holds a faculty appointment and a M.S. degree or equivalent or higher. The qualifications for Category P status are that an individual holds a faculty appointment, has an earned PhD or equivalent, is engaged in an active program of research, or demonstrates significant promise of establishing such a program. The GSC confers Category M status and notifies the Graduate School of its actions.

Faculty members desiring Category P status are required to submit evidence of eligibility to the GSC. It is suggested that new faculty with a Category M status co-advise PhD students prior to submitting this request. The candidate’s nomination materials will be made available to the entire Graduate Faculty of the Department for perusal and comment. The GSC will assess the materials submitted and consider faculty comments. If warranted, the GSC will make a nomination for Category P status to the Graduate School.

Faculty members with a courtesy appointment in the Department of Animal Sciences are eligible to be members of the Animal Sciences Graduate Faculty. To be granted Category M or P status in the Department of Animal Sciences, faculty with a courtesy appointment must have credentials consistent with those of regular faculty holding such appointments. The GSC appoints faculty with courtesy appointments to Category M graduate faculty status and notifies the Graduate school of its actions. Nomination materials for courtesy faculty that desire Category P status will be made available for review by the entire Animal Sciences Graduate Faculty. The GSC will assess the materials submitted and consider faculty comments. If approved, a nomination for Category P status will be forwarded by the GSC to the Graduate School. Students advised by courtesy faculty with graduate faculty status in the Department of Animal sciences are not eligible for Departmental associateships or fellowships, nor are they eligible for Departmental funds in support of travel to scientific meetings.

**POTENTIAL GRADUATE FACULTY ADVISORS**

Graduate faculty members with regular appointments in the Department of Animal Sciences are alphabetically listed. Following the faculty member's name are Graduate Faculty Category, the degree, institution, year of degree, research interest, location and rank (M for those who may advise MAS and MS students, and serve on Ph.D. committees, P for those authorized to advise Ph.D., MAS, and MS students).

**Interim Chair**

- Weiss, William P., Ph.D., The Ohio State University, 1985. Dairy Nutrition (Wooster) P.

**Interim Associate Chairs**

- Lyvers-Peffer, Pasha, Ph.D., North Carolina State University, 2004. Nutrition (Columbus) M.
- Parker, Anthony, Pd.D., James Cook University, 2005. Ruminant Nutrition (Wooster) P.

**Graduate Studies Committee Chair**

- Yu, Zhongtang, Ph.D., New Mexico State University, 1996. Molecular Biology (Columbus) P.

**Graduate Faculty**

- Bielke, Lisa R., PhD., University of Arkansas, 2006. Poultry Microbiology (Wooster) M.
- Boyles, Stephen L., Ph.D., Kansas State University, 1985. Beef Nutrition (Columbus) M.
• Cole, Kimberly, Ph.D., University of Arkansas, 2005. Equine (Columbus) P.
• Davis, Michael E., Ph.D., Colorado State University, 1980. Beef Cattle Genetics (Columbus) P.
• Eastridge, Maurice L., Ph.D., Purdue University, 1986. Dairy Nutrition (Columbus) P.
• England, Eric, PhD., Virginia Polytechnic Institute and State University, 2015. Meat Science (Columbus) M.
• Ezeji, Thaddeus, Ph.D., (Magna Cum Laude) University of Rostock, Germany, 2001. Microbiology (Wooster) P.
• Firkins, Jeffrey L., Ph.D., University of Illinois, 1987. Dairy Nutrition (Columbus) P.
• Fluharty, Francis L., Ph.D., The Ohio State University, 1993. Beef and Sheep Nutrition (Wooster) P.
• Garcia, Lyda, PhD., Texas A&M University, 2010. Meat Science (Columbus) M.
• Jacobi, Sheila, PhD., Purdue University, 2006. Nutrition (Wooster) P.
• Kinder James E., Ph.D., Washington State University, 1975. Reproductive Physiology (Wooster) P.
• Knipe, Lynn C., Ph.D., Iowa State University, 1982. Meat Science (Columbus) M.
• Lee, Changhee, PhD., Pennsylvania State University, 2012. Animal Science (Wooster) M.
• Lee, Kichoon, Ph.D., University of Georgia, 1997. Molecular Biology (Columbus) P.
• Lilburn, Michael S., Ph.D., Pennsylvania State University, 1980. Poultry Science (Wooster) P.
• Moeller, Steven J., Ph.D., Iowa State University, 1994. Swine Genetics (Columbus) P.
• Ockerman, Herbert W., Ph.D., North Carolina State University, 1962 (Columbus) P.
• Ottobre, Joseph S., Ph.D., West Virginia University, 1981. Reproductive Physiology (Columbus) P.
• Pairis-Garcia, Monique, Ph.D., Iowa State University, 2014. Animal Welfare (Columbus) M.
• Pope, William F., Ph.D., Oregon State University, 1981. Reproduction (Columbus) P.
• Relling, Alejandro, PhD., The Ohio State University, 2009. Animal Sciences (Wooster) M.
• St-Pierre, Normand R., Ph.D., The Ohio State University, 1985. Dairy Management (Columbus) P.
• Selvaraj, Ramesh, Ph.D., University of California, Davis, 2005. Immunology (Wooster) P.
• Velleman, Sandra J., Ph.D., University of Connecticut, 1986. Cell and Developmental Biology (Wooster) P.
• Wick, Macdonald P., Ph.D., University of California, Davis, 1997. Muscle Cell Biology (Columbus) P.
Appendix A

Listing of Elective Courses for MAS

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Departmental</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any Animal Science course level 5000 and above (except AS 8998 and 8999) can be taken to fulfill the elective course requirements. Core courses will not count towards the elective requirements. The required courses listed under the specializations can be taken as electives; however, no course fulfilling a specialization requirement can also be counted as an elective. For example, a student with the Animal Science Specialization cannot use ANSCI 5031 as their required nutrition course and as an elective.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>College</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGRCOMM 5150</td>
<td>Communication Strategies for Change and Development</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AGRCOMM 5170</td>
<td>International Development Theory and Practice</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AGRCOMM 5190</td>
<td>Extension Education in Developing Countries</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AEE 7230</td>
<td>Strategic and Program Planning for Visionary Change</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AEE 7320</td>
<td>Adult Learning and Professional Development</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AEE 7420</td>
<td>Emerging Trends and Issues in Agricultural and Extension Education</td>
<td>2 hrs</td>
</tr>
<tr>
<td>AEE 7520</td>
<td>Human Development and Program Planning</td>
<td>2 hrs</td>
</tr>
<tr>
<td>AEDECON 6010$^3$</td>
<td>Applied Microeconomics I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AEDECON 6020$^3$</td>
<td>Applied Microeconomics II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AEDECON 6200$^3$</td>
<td>Agriculture Policy and Trade</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COMLDR 5335</td>
<td>Volunteer and Human Resource Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COMLDR 5430</td>
<td>Professional Leadership Ethics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENTOMLGY 7930</td>
<td>Scientific Writing and Grant Proposal Development</td>
<td>2 hrs</td>
</tr>
<tr>
<td>FDSCTE 5310</td>
<td>Food Quality Assurance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FDSCTE 5320</td>
<td>Food Laws and Regulation</td>
<td>2 hrs</td>
</tr>
<tr>
<td>FDSCTE 5420</td>
<td>Dairy Processing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FDSCTE 5536</td>
<td>Food Microbiology Lecture</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FDSCTE 5546</td>
<td>Food Microbiology Laboratory</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RURLSOC 5530</td>
<td>Sociology of Agriculture and Food Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>University</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANIMSCI 7761$^{3,4}$</td>
<td>Macronutrient Metabolism</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANIMSCI 7762$^{3,4}$</td>
<td>Vitamin and Mineral Metabolism</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MICRBIO 5122$^3$</td>
<td>Immunology</td>
<td>2 hrs</td>
</tr>
</tbody>
</table>
STATS 5301\textsuperscript{1}  
Intermediate Data Analysis I  
4 hrs

VETMED 7722  
Foodborne diseases, food animal production systems, and food safety  
3 hrs

\textsuperscript{1}Credit applied toward specialized mentored experiences conducted with industry partners following consultation with and approval by the examination committee (repeatable up to 10 credit hour maximum).

\textsuperscript{2}Cross listed with Veterinary Medicine

\textsuperscript{3}Requires course prerequisite or permission of the instructor

\textsuperscript{4}Crosslisted with Human Nutrition and Food Science and Technology. Students pursuing the Animal Nutrition Specialization are strongly encouraged to complete both ANIM SCI 7761 and 7762.