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University of Manitoba
Faculty of Agricultural and Food Sciences
Department of Animal Science

ANSC0690 SWINE PRODUCTION AND MANAGEMENT

TABLE OF CONTENTS
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COURSE DETAILS

Course Title & Number: ANSC0690 Syllabus
Number of Credit Hours: 4.0
Class Times & Days of Week: 12:30 – 1:20 pm on Monday, Wednesday and Friday
Location for classes: 107 Animal Science
Location for labs/tutorials: 107 Animal Science
Lab times & Days of Week: Tuesdays from 2:30 pm to 5:15 pm
Prerequisites: ANSC0420 Animal Biology and Nutrition

Instructor Contact Information

<table>
<thead>
<tr>
<th>Instructor(s) Name:</th>
<th>Dr. G.N. Gozho</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preferred Form of Address</td>
<td>Whatever you are comfortable with George or Dr. Gozho</td>
</tr>
<tr>
<td>Office Location:</td>
<td>226 Animal Science Building</td>
</tr>
<tr>
<td>Office Phone No.</td>
<td>Phone: 204 474-9443</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:George.Gozho@umanitoba.ca">George.Gozho@umanitoba.ca</a></td>
</tr>
</tbody>
</table>

All e-mail communication must conform to the Communicating with Students university policy. (Please familiarize yourself with the policy). Use the subject line to state the reason for your e-mail and add the course number.

Office Hours or Availability: No set time or hours. You can e-mail me between 8:30 and 5:00 pm. Depending on the issue(s) to be discussed, a telephone call can be arranged. You can also consult my publicly available calendar to access my schedule.

Contact: Use e-mail, phone or come in person to my office

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Course Description

ANSC0690 Swine Production systems
Describes the swine industry in terms of size, complexity and relationship to the economy and gives an understanding of the breeding, feeding, management and marketing practices in a modern production unit. It outlines swine production systems of relevance to the agricultural industry. Open only to students holding at least 60 credit hours. Prerequisite: ANSC0420

General Course Information

The swine industry is an important sector in Manitoba. It requires the engagement of people with relevant training, knowledge, and skills to contribute to the provincial economy. This course offers an opportunity for training those who aspire to work directly in the swine industry or related industries such as the feed industry.

Course Goals

The objectives of the courses are:

a) Introduce students to the basic principles and practical skills in swine production systems with particular reference to swine production and management.

b) List and explain the management practices used in modern pork production.

c) Discuss these management practices in relation to their impact on the profitability of swine production systems.

d) To develop critical thinking skills so that students can make management decisions based on science-based animal husbandry principles.

Intended Learning Outcomes

At the end of the course, students will be able to:

a) Describe the structure of the swine industry in Manitoba and Canada.

b) Understand the inputs, components, and sales and marketing of Canadian pork products.

c) Analyze the issues that face the Canadian swine industry and its socioeconomic role in Canada.

d) Identify factors that influence the performance of pigs in different classes.

e) Apply the skills and knowledge from this course to evaluate swine enterprises and offer solutions to solve problems and improve profitability.

f) Develop the ability to formulate simple swine diets.

Using Copyrighted Material

Please respect copyright. The content used in this course is appropriately acknowledged and is copied in accordance with copyright laws and University guidelines. Copyrighted works, including those created by the instructors, are made available for private study and research and must not be distributed in any format without permission.

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Recording Class Lectures
Lecture material will not be recorded, but PowerPoint slides will be uploaded to UMLEarn Where recorded course materials are used, they are meant for your private study and research and must not be shared on public electronic platforms.

Textbook, Readings, Materials

Supplementary Reading Material


Lee Chiba Sustainable Swine Nutrition, 2013. Wiley InterScience (Online service)


Other publications:
The Canadian Swine Forum
Canadian Hog Journal
Manitoba Pork Council publications
Manitoba Swine Seminar, Banff Pork Seminar, etc.
Peer reviewed scientific journal articles

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**Course Technology**

Lecture notes will be posted on UMlearn

**Class Communication**

The University requires all students to activate an official University e-mail account. For full details of the Electronic Communication with Students, please visit: [http://umanitoba.ca/admin/governance/media/Electronic_Communication_with_Students_Policy_-_2014_06_05.pdf](http://umanitoba.ca/admin/governance/media/Electronic_Communication_with_Students_Policy_-_2014_06_05.pdf)

Please note that all communication between you as a student and the instructors of the course must comply with the electronic communication with student policy ([http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html](http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html)). You are required to obtain and use your U of M e-mail account for all communication between yourself and the university.

**Expectations: I expect you to:**

I expect you to:

a) Attend class on time, so we start on time.
b) Ask for help when you need assistance.
c) Submit your own work for individual assignments and work together in a team for group-assigned projects.
d) To act in a civil, respectful, and responsible manner toward all members of the U of M community.
e) I will treat you respectfully and appreciate the same courtesy. See [Respectful Work and Learning Environment Policy](http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html).

**Academic Integrity:**

Group and individual assignments are expected as part of fulfilling the requirements of this course.

(i) Group projects are subject to the rules of academic dishonesty;
(ii) Group members must ensure that a group project adheres to the principles of academic integrity.
(iii) Group assignments are meant to help develop an appreciation of teamwork in addition to academic knowledge and skills, therefore, complaints from other group members for not cooperating or doing the assigned tasks may result in dismissal from a group. In such a situation the student will not be awarded any marks nor offered to do an individual project.
(iv) For individual assignments, while students can discuss the assignment with their colleagues, they should complete the assignment independently.

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Students Accessibility Services

Student Accessibility Services
If you are a student with a disability, please contact SAS for academic accommodation supports and services such as note-taking, interpreting, assistive technology and exam accommodations. Students who have, or think they may have, a disability (e.g. mental illness, learning, medical, hearing, injury-related, visual) are invited to contact SAS to arrange a confidential consultation.

Student Accessibility Services [http://umanitoba.ca/student/saa/accessibility/](http://umanitoba.ca/student/saa/accessibility/)
520 University Centre
Phone: 204 474 7423 E-mail: Student_accessibility@umanitoba.ca

What to Expect from the Instructors
Deliver course material mainly in the form of PowerPoint lectures in class.
Provide a respectful learning environment
Answer your questions honestly and where if information to answer your questions in not
Provide opportunities for discussion during class or labs
Provide a summary of key points.

Class Schedule
This schedule is subject to change at the discretion of the instructor and/or based on the learning needs of the students but such changes are subject to Section 2.8 of the – ROASS Procedure). If you miss lecture(s), it is your responsibility to obtain any information announced in class.

<table>
<thead>
<tr>
<th>MONTH</th>
<th>DATES</th>
<th>LECTURE TOPIC / UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>9</td>
<td>Introductions</td>
</tr>
<tr>
<td></td>
<td>11, 13</td>
<td>Swine Production Systems</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>Swine Industry in Manitoba Robyn Harte MB Agriculture</td>
</tr>
<tr>
<td></td>
<td>18, 20</td>
<td>Environmental Requirements of Swine: Thermal Comfort; Codes of Practice; Handling</td>
</tr>
<tr>
<td></td>
<td>23</td>
<td>No class Diploma experiential Learning*</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>No class Diploma experiential Learning*</td>
</tr>
<tr>
<td></td>
<td>26</td>
<td>Biosecurity Robyn Harte MB Agriculture</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>Principles of Genetics and Genetic Improvement</td>
</tr>
<tr>
<td>February</td>
<td>1</td>
<td>Principles of Genetics and Genetic Improvement</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Reproduction – Principles Revisited</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>Reproduction – Principles Revisited</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>Feeds &amp; Feeding; Evaluation of pig feed ingredients</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>Feeds &amp; Feeding; Evaluation of pig feed ingredients</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Date</th>
<th>Lab</th>
<th>Laboratory Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>10</td>
<td>No lab/ tutorial</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>Tutorial on Feed Laboratory Analysis</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>No Lab (Diploma Experiential Learning)</td>
</tr>
<tr>
<td></td>
<td>31</td>
<td>Glenlea Micro feed mill tour</td>
</tr>
<tr>
<td>February</td>
<td>7</td>
<td>Glenlea Swine Unit – Pig Flow, Breeding and Feeding</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>Diet formulation</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td><strong>Winter Term Break</strong></td>
</tr>
<tr>
<td></td>
<td>28</td>
<td>Virtual barn visit</td>
</tr>
<tr>
<td>March</td>
<td>7</td>
<td>Swine farm visit</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>TBA</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>TBA</td>
</tr>
<tr>
<td>April</td>
<td>28</td>
<td>Class (Individual) Presentations</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

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Important Dates

January 9, 2023 – First day of class
February 20, 2023- Louis Riel Day
February 21 – 24, 2023 – Winter Term Break
April 7, 2023 – Good Friday no classes
April 12, 2023, the last day of classes
See the university website for a comprehensive list of dates

Course Evaluation Methods

Test will contain sections with multiple choice, short and long answer questions. No make-up exams or assignments will be allowed, except for absence that has been cleared by the instructor

The due dates for the various components of the grade are given below:

<table>
<thead>
<tr>
<th>Due Date:</th>
<th>Assessment Tool</th>
<th>Value of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>See listing</td>
<td>Laboratory/Tutorial assignments</td>
<td>10%</td>
</tr>
<tr>
<td>March 28</td>
<td>Class presentation</td>
<td>5%</td>
</tr>
<tr>
<td></td>
<td>Presentation outline</td>
<td>15%</td>
</tr>
<tr>
<td>February 13</td>
<td>Term test 1</td>
<td>20%</td>
</tr>
<tr>
<td>March 24</td>
<td>Term test 2</td>
<td>20%</td>
</tr>
<tr>
<td>TBA</td>
<td>Final examination (University schedule)</td>
<td>30%</td>
</tr>
</tbody>
</table>

Grading

The grading scale for the course is given below:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>%</th>
<th>Grade Point Range</th>
<th>Final Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>91-100</td>
<td>4.25-4.5</td>
<td>4.5</td>
</tr>
<tr>
<td>A</td>
<td>84-90</td>
<td>3.75-4.24</td>
<td>4.0</td>
</tr>
<tr>
<td>B+</td>
<td>77-83</td>
<td>3.25-3.74</td>
<td>3.5</td>
</tr>
<tr>
<td>B</td>
<td>70-76</td>
<td>2.75-3.24</td>
<td>3.0</td>
</tr>
<tr>
<td>C+</td>
<td>65-69</td>
<td>2.25-2.74</td>
<td>2.5</td>
</tr>
<tr>
<td>C</td>
<td>60-64</td>
<td>2.0-2.24</td>
<td>2.0</td>
</tr>
<tr>
<td>D</td>
<td>50-59</td>
<td>Less than 2.0</td>
<td>1.0</td>
</tr>
<tr>
<td>F</td>
<td>Less than 50</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

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Assignment Descriptions

Presentation Assignment Topics

1. Managing sows for a long productive life
2. Feeding and management of nursery pigs.
3. African swine fever and other foreign animal diseases – implications for Canadian swine industry
4. The importance of water in swine production
5. Animal welfare and societal issues in swine production
6. Housing and management of swine – issues and possible solutions.
7. Voluntary feed intake in swine – its significance and related challenges.
9. The impact of pork production on the environment.
10. The impact of mycotoxin contamination of feed ingredients on pork production.

Assessment criteria: Topic Presentations

The following parameters will be used in evaluating your presentation:

1. **Length of presentation**
   a. Total of 20 minutes broken down into 15 minutes of presentation and 5 minutes of questions and discussions

2. **Quality of presentation**
   a. Quality of slides
   b. Organization of presentation
   c. Delivery of presentation

3. **Demonstration of in-depth understanding of the subject matter**
   a. Inclusion of pertinent information
   b. Attempts to critically comment on the subject matter
   c. Not afraid to speculate

4. **Ability to stimulate discussion and answer questions**

5. **Please note the following:**
   a. Presentation must focus on what happens on a commercial hog farm
   b. The presentation outline must be submitted to the instructors by **March 7**

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Assignment Extension and Late Submission Policy

- Due dates will be given on all assignments. If you have problems completing the assignment by the due date please let the instructor know before the date if possible.
- All students are encouraged to complete all the assignments because every component contributes to the final grade.

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