**AVS 306 – Feeds and Ration Formulation**

**Spring 2020 Laboratory Syllabus**

* **AVS 306 website** <http://www.webpages.uidaho.edu/avs306/>
* **Laboratory Sections & Schedule**
	+ Laboratory sections
		- Section 1 🡪 1:30 p.m. – 3:20 p.m.
		- Section 2 🡪 3:30 p.m. – 5:20 p.m.
	+ Laboratory schedule
		- Lab will occur every Wednesday throughout the Spring 2020 semester EXCEPT January 20 (MLK Day) and March 18 (Spring Recess).
		- If other adjustments or cancellations are necessary, you will be notified in advance as to any changes in the lab schedule.
		- An email will be sent each week to keep everyone updated on the laboratory schedule (i.e., topic being discussed, assignments that are due, quiz to be given, and similar topics).
* **Laboratory Topics**
	+ Classroom Activities
		- Introductory Problems
		- Feed Composition & Nutrient Requirements
		- Adjusting for Moisture Content in Feedstuffs
		- Production of Silage (Part I & Part II)
		- Energy Calculations
		- Ration Formulation I – Energy & Protein
		- Ration Formulation II – three or more Nutrients
		- Feed Identification
		- Vitamin & Mineral Premixes
		- Software-based Ration Formulation
	+ Hands-on Activities
		- Silage making
* **Laboratory Expectations**
	+ Classroom Activities
		- ALL classroom assignments (lab exercises) will be posted to the AVS 306 website.
		- An approximate 10 – 30 min review session will occur at the beginning of each lab to discuss the laboratory assignment, work example problems, answer questions, etc.
		- **IT IS YOUR RESPONSIBILITY TO PRINT AND REVIEW THE LAB EXERCISE BEFORE LAB.**
	+ Hands-on Activities
		- You will be expected to participate in out-of-classroom activities, as they are considered to be a portion of your laboratory grade.
		- Any announcements concerning hands-on activities will be made during lecture.
* **Teaching Assistants**
	+ Chia-Yu Tsai tsai4799@vandals.uidaho.edu Office: Ag Sci bldg. 217C
	+ Maeghan Steelreath stee5768@vandals.uidao.edu Office: Ag Sci bldg. 217C

* You may contact the TAs via email to ask questions concerning lab assignments or to schedule an appointment if further assistance is needed.
* **Laboratory Attendance**
* Attendance is required in order to gain an understanding of the material. Once you have completed the lab exercise or activity, you are free to leave.
* It is necessary that each student attend the laboratory session for which they have enrolled. We CANNOT allow students to move freely between laboratory sessions.
* **Grading Policy**
* Classroom Activities:
	+ All classroom activities (i.e., lab exercises posted to the website) are due NO LATER than the following Monday morning lecture after a lab session, unless otherwise noted.
	+ A 5% reduction in the lab exercise grade will occur for each day that the exercise is late, including weekends.
* Quizzes:
	+ A quiz will be given during the morning lectures to test you on lecture materials.
	+ You will be notified prior to the quiz about it.
	+ You will have ~20 minutes to complete the quiz.
* Grades:
	+ Lab exercises and activities will account for 24% of your final class grade.
	+ Quizzes will account for 16% of your final class grade.
* If you are unable to turn-in an assignment, take a quiz at the appointed time, or attend an activity, you MUST notify TA via email as soon as possible. University excused absences will allow for a “make-up” session (when possible), which is to be determined at the discretion of the teaching team. Unexcused absences will result in a ZERO for that assignment.
* **Helpful Hints**
* bring a **calculator** (NOT a cellphone) to the lab…you WILL need it!
* complete lab exercises and quizzes in **pencil**…you WILL make mistakes!
* work in **groups**…you WILL need the extra help!
* include **units** in your calculations...it WILL serve as an internal check-off for your calculations!
* check your **lab calculations** with the TA…you WILL make a good grade by doing this!
* **ask questions** if you do not understand a problem…you WILL save yourself time and frustration!