AGRICULTURAL SYSTEMS MANAGEMENT (ASM)

ASM 378: **Machinery Principles and Management**

Class Information: Instructor:

Credit – 3 Matt Olhoft

Fall 2019 ABEN 204

Class Room: ABEN 208 Phone: 701-231-7269

Time: 11:00 – 11:50 am Tues. and Thurs. E-mail: matthew.olhoft@ndsu.edu

Office Hours: By appointment or drop in. Usually available Tuesdays and Thursdays 8-5.

**Course Description:** Overview of machine management in terms of efficiencies, sizing, buying, using, comparing and maintaining.

**TEXT:** **"Machinery Management”, Deere and Company, 6th edition 2008**

**COURSE OBJECTIVES:**

1. To develop an introductory understanding of machinery selection.

1. To develop good problem solving skills and to learn to look for alternative solutions to problems in regards to sizing and purchasing.

1. To solve basic, applied, and practical problems on tractors and farm equipment.

1. To provide an introduction to higher level thinking and problem solving with machines.

**REQUIRED RESOURCES:** Text book, non-spiral letter size paper for homework, pencil, eraser, basic calculator

**BLACKBOARD:** Blackboard will be used for announcements, class presentations, assignments, and temporary grades presentation

# GRADING

Items Total Points

Tests (Four tests, 100 pts each*)* 400

Book Questions (14 question sets, 10 pts each) 140

Lab points (10 points per lab, 20 per report) 200

Unannounced quizzes (2 quizzes, once in every 8 weeks, 15 pts each) 30

**Total pts: 770**

**All the home works and quizzes must be submitted on time. No late submissions are accepted**.

(There may be extra credits for students in addition to the formal grading. So the total grade points can be more than 770).

The cut off for letter grades: 100-90% = A; 89-80% = B; 79-70% = C; 69-60% = D; 59% = F

## MISSING EXAMS

**The exam dates are set at the beginning of the semester**. All other extracurricular activities should not be scheduled on these dates. If for some **emergency reasons**, someone misses an exam, the instructor **must** be notified **BEFORE** the exam is given. Notification by e-mail or other written formats are acceptable. Missing an exam without notifying the instructor **BEFORE** the exam date will result in a **"0"** for that exam - **no exceptions**!

## MISSING QUIZZES

Quizzes **cannot** be made up. For legitimate emergency, contact me before the class and allowance can be made. If you miss a quiz, your score for the quiz is **"0"**. Quizzes will be unannounced and will be given for one or more of the following reasons:

1. To see if the class understands some of the concepts.
2. To encourage response to questions in the form of quiz.
3. To encourage class attendance.

***If you are unable to attend the class, let the instructor know ahead of time by e-mail or other written formats. In this case, the instructor will not have unannounced quiz.***

## MISSING CLASSES

You are expected to attend all class periods but there is no roll-call. If a class is missed, contact the instructor or class mates for notes. The PowerPoint presentations will be posted in the blackboard.

## IMPORTANT NOTIFICATION

**Academic Honesty:** All students taking any course in the College of Agriculture, Food Systems, and Natural Resources are under the Honor System (<http://www.ag.ndsu.edu/academics/honor-system-1>). The Honor System is a system that is governed by the students and operates on the premise that most students are honest and work best when their honesty, and the honesty of others, is not in question. It functions to prevent cheating as well as penalize those who are dishonest. It is the responsibility of the students to report any violations of the honor pledge to the instructor, honor commission or the Dean of the College of Agriculture, Food Systems, and Natural Resources.

The academic community is operated on the basis of honesty, integrity, and fair play. [NDSU Policy 335: Code of Academic Responsibility and Conduct](http://www.ndsu.edu/fileadmin/policy/335.pdf) applies to cases in which cheating, plagiarism, or other academic misconduct have occurred in an instructional context. Students found guilty of academic misconduct are subject to penalties, up to and possibly including suspension and/or expulsion. Student academic misconduct records are maintained by the [Office of Registration and Records](http://www.ndsu.edu/registrar/). Informational resources about academic honesty for students and instructional staff members can be found at [www.ndsu.edu/academichonesty](http://www.ndsu.edu/academichonesty).

**Students with special requirements:** Any students with disabilities or other special needs, who need special accommodations in this course are invited to share these concerns or requests with the instructor as soon as possible. The instructor may ask for verification and that, plus other assistance, can be requested from Disability Services in Wallman Wellness Center 170 (231-8463). <http://www.ndsu.edu/disabilityservices/>.

**Veterans and military personnel**: Veterans or military personnel with special circumstances or who are activated are encouraged to notify the instructor as early as possible.

**Important Dates**

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| **Fall 2019**  [Variable Length Session Drop/Add Deadlines](https://www.ndsu.edu/fileadmin/registrar/dates/sessions/2010.pdf)   | **Date** | | **Day** | **Description** | | --- | --- | --- | --- | | Aug | 26 | Mon | Classes begin at 4:00 p.m. | | Aug | 27 | Tue | First full day of classes | | Sep | 2 | Mon | **HOLIDAY** — Labor Day *(no classes, offices closed)* | | Sep | 3 | Tue | Last day for Campus Connection [Wait Lists](https://www.ndsu.edu/onestop/connect/waitlist/) to run | | Sep | 4 | Wed | Last day to [Add](https://www.ndsu.edu/onestop/connect/add/) classes via [Campus Connection](https://studentadmin.connectnd.us/psp/NDCSPRD/EMPLOYEE/HRMS/h/?tab=GUEST)[\*](https://www.ndsu.edu/registrar/dates/2017/#c418814) Permit needed after this date. | | Sep | 4 | Wed | Last day for no-record [**Drop**](https://www.ndsu.edu/onestop/connect/drop/) of classes @ 100% refund[\*](https://www.ndsu.edu/registrar/dates/2017/#c418814) *(full semester classes only)* | | Sep | 4 | Wed | Last day to [Withdraw to Zero Credits](https://www.ndsu.edu/registrar/forms/withdraw/) @ 100% refund[\*](https://www.ndsu.edu/registrar/dates/2017/#c418814) *(full semester classes only)* | | Sep | 4 | Wed | Attempted credits calculated for financial aid [SAP](https://www.ndsu.edu/onestop/finaid/sap/) (11:59 p.m.)[\*\*](https://www.ndsu.edu/registrar/dates/2017/#c418814) | | Sep | 4 | Wed | Eligible Pell/TEACH/ND Grants/Scholarships based on enrollment at 11:59 p.m. | | Sep | 10 | Tue | Financial aid applied to NDSU account balances | | Sep | 11 | Wed | Payments due for NDSU account balances[\*](https://www.ndsu.edu/registrar/dates/2017/#c418814) | | Sep | 16 | Mon | Last day to submit requests to Audit, [Pass/Fail](https://www.ndsu.edu/registrar/forms/passfail/) | | Sep | 20 | Fri | Undergraduate/Professional Fall [Degree Applications](https://www.ndsu.edu/registrar/forms/degreeapp/) due | | Sep | 20 | Fri | Graduate student Fall [Graduate Degree Applications](https://dmsforms.ndus.edu/iFiller/iFiller.jsp?fref=d0349a1e-a1e0-4461-b889-54754e5e2038) due | | Sep | 23 | Mon | Last Day to Add Full Semester Classes*.* Permit & [Appeal](https://www.ndsu.edu/registrar/dates/course_add_deadline/) needed after this date. | | Oct | 4 | Fri | Last day to [Withdraw to Zero Credits](https://www.ndsu.edu/registrar/forms/withdraw/) @ 75% refund[\*](https://www.ndsu.edu/registrar/dates/2017/#c418814) *(full semester classes only).* | | Oct | First | Week | Spring registration schedule available | | Oct | 15 | Tue | Late fees applied to unpaid account balances (11:59 p.m.) | | Oct | 18 | Fri | Grades of 'Incomplete' convert to 'F' | | Oct | 21 | Mon | 2nd half (8-week session) of Fall semester begins | | Nov | 3 | Sun | Last day to [Withdraw to Zero Credits](https://www.ndsu.edu/registrar/forms/withdraw/) @ 50% refund[\*](https://www.ndsu.edu/registrar/dates/2017/#c418814) *(full semester classes only).*  ***No refunds issued for withdraw to zero credits after this date.*** | | Nov | 4-24 | Mon | Spring registration begins online based on total credits completed | | Nov | 11 | Mon | **HOLIDAY** — Veterans Day *(no classes, offices closed)* | | Nov | 15 | Fri | Last day to [**Drop**](https://www.ndsu.edu/onestop/connect/drop/) classes with 'W' record[\*](https://www.ndsu.edu/registrar/dates/2017/#c418814) | | Nov | 15 | Fri | Last day to [Withdraw to Zero Credits](https://www.ndsu.edu/registrar/forms/withdraw/) for Fall | | Nov | 15 | Fri | Late fees applied to unpaid account balances (11:59 p.m.) | | Nov | 15 | Fri | Graduate student [Initial Disquisition](https://www.ndsu.edu/gradschool/current_students/graduation/theses_dissertations_papers) submission for December graduation | | Nov | 25 | Mon | Open registration for spring | | Nov | 27-29 | Wed-Fri | **HOLIDAY** — Thanksgiving *(no classes; offices closed Thursday, offices open Wednesday& Friday)* | | Dec | 2 | Mon | Fall Commencement Participation deadline | | Dec | 9-13 | Mon-Fri | [Dead Week](https://www.ndsu.edu/registrar/dates/deadweek/) | | Dec | 10 | Tue | Grade entry begins | | Dec | 13 | Fri | Last day of Fall classes | | Dec | 15 | Sun | Late fees applied to unpaid account balances (11:59 p.m.) | | Dec | 16-20 | Mon-Fri | [Final Examinations](https://www.ndsu.edu/registrar/dates/finals/) | | Dec | 20 | Fri | Graduate student [Final Disquisition](https://www.ndsu.edu/gradschool/current_students/graduation/theses_dissertations_papers) copy due for December graduation | | Dec | 20 | Fri | [Commencement](https://www.ndsu.edu/commencement/) ceremony (2:00 p.m. in Sanford Health Athletic Complex) | | Dec | 24 | Tue | Grades due (12:00 p.m.) | | Dec | 24 | Tue | Fall grade access begins online (late evening) | | Dec | 25 | Wed | **HOLIDAY** — Christmas Day Observed *(offices closed)* | |  |  |  |
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**GENERAL CLASS SCHEDULE** (subject to change)

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| **Period** | **Date** | **Topic** | **Unit** |
|  |  |  |  |
| 1 | Aug 27 | Introduction and Chapter 1 | 1 |
| 2 | 29 | Chapter 1 ***(chap 1 questions due)*** | 1 |
|  |  |  |  |
| 3 | Sept. 3 | Chapter 2 | 2 |
| 4 | 5 | Chapter 2 ***(chap 2 questions due)*** | 2 |
|  |  |  |  |
| 5 | 10 | Chapter 3 | 3 |
| 6 | 12 | Chapter 3 ***(chap. 3 problems due)*** | 3 |
|  |  |  |  |
|  | 17 | Chapter 4 | 4 |
| 8 | 19 | **Test on chapters 1-4** ***(chap. 4 problems due)*** |  |
|  |  |  |  |
| 9 | 24 | Chapter 5 | 5 |
| 10 | 26 | Chapter 5 ***(chap. 5 problems due)*** | 5 |
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| 12 | Oct. 1 | Chapter 6 | 6 |
| 13 | 3 | Chapter 6 ***(chap. 6 problems due)*** | 6 |
|  |  |  |  |
| 14 | 8 | Chapter 7 | 7 |
| 15 | 10 | Chapter 7 **(chap. 7 problems due)** | 7 |
|  |  |  |  |
| 16 | 15 | Chapter 8 | 8 |
| 17 | 17 | Chapter 8 ***(chap. 8 problems due)*** | 8 |
|  |  |  |  |
| 18 | 22 | **Test on chapters 5-8** |  |
| 19 | 24 | Chapter 9 | 9 |
|  |  |  |  |
| 21 | 29 | Chapter 9 ***(chap. 9 problems due)*** | 9 |
| 22 | 31 | Chapter 10 | 10 |
|  |  |  |  |
| 23 | Nov. 5 | Chapter 10 ***(chap. 10 problems due)*** | 10 |
| 24 | 7 | Chapter 11 | 11 |
|  |  |  |  |
| 25 | 12 | Chapter 11 ***(chap. 11 problems due)*** | 11 |
| 26 | 14 | **Test on chapters 9-11** |  |
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| 27 | 19 | Chapter 12 | 12 |
| 28 | 21 | Chapter 12 ***(chap. 12 problems due)*** | 12 |
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| 29 | 26 | Chapter 13 | 13 |
| 30 | 28-1 | **Thanksgiving break** |  |
|  |  |  |  |
| 31 | Dec. 3 | Chapter 13 ***(chap. 13 problems due)*** | 13 |
| 32 | 5 | Chapter 14 | 14 |
|  |  |  |  |
| 33 | 10 | Chapter 14 ***(chap. 14 problems due)*** | 14 |
| 34 | 12 | Review |  |
|  |  |  |  |
| 35 | 17 | **Final test (Comprehensive and chapters 12-14)** |  |
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These are tentative dates for tests and material covered, the actual dates and material may vary. **That is why attendance is important**. Any change in schedule will be notified ahead of time as much as possible.

**THE DATE FOR FINAL EXAM IS TUESDAY, Dec. 17 2019; 8:00 am.**