

3 credits

Instructors MP Shipka, MG Karlsson, M Zhang

Offered spring semester - T TH 2:00-3:30 PM

Murie Auditorium and Online

Text Toward Sustainable Agricultural Systems in the 21st Century

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| Week 1 | Chapter 1 in TSAS* (p. 15-41) What is Sustainable Agriculture? | Shipka |
| 1/16 | Overview | |
| 1/18 | Concepts and themes Three legs of sustainable agriculture Economic, social, and political context | |
| | Quiz 1 - Due 1/23 before 2:00 PM | |
| Week 2 | Chapter 2 in TSAS* (p. 43-82) Farming and Natural Resources | |
| 1/23 | Is organic agriculture the same as sustainable agriculture? | |
| 1/25 | Agroecology | |
| | Quiz 2 - Due 1/30 before 2:00 PM | |
| | <u>Assignment I</u> (covers material in weeks 1 & 2) | |
| | Lundberg Family Farms (p. 371-376) | |
| | Due 2/1 by 2:00 PM | |

Week 7 Reading Assignment: Sustainable Soil Management System
Guide (available on Blackboard one week prior to class period)

2/27 Sustainable Soil Management Systems Management
 Principles and characteristics of sustainable Soil

3/1 Management steps to improve soil quality
 Examples of sustainable soil builders

Quiz 7 - Due 3/6 before 2:00 PM
Assignment II

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| Week 14 | Chapter 5 in TSAS* (p. 233-249) Sustainable Animal Production Concepts | Shipka |
| 4/17 | Animal welfare | |
| 4/19 | Animal behavior Quiz 13 - Due 4/24 before 2:00 PM | |
| Week 15 | Chapter 5 in TSAS* (p. 233-249) Sustainable Animal Production Concepts | Shipka |
| 4/24 | Integrated livestock management system | |
| 4/26 | Systems management | |
| | Ecological & sustainable livestock production systems Quiz 14 - Due 5/1 before 2:00 PM <u>Assignment IV</u> (covers material in weeks 13, 14 & 15) Brookview Farm (p. 366-370) & Goldmine Farm (p. 463-472) Due 5/1 by 10:00 AM | |

*Towards Sustainable Agriculture Systems in the 21st Century.

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- 1) Attend the lectures,
 - 2) Take good notes,
 - 3) Read the assigned readings before class,
 - 4) Download the PPT before or right after class,
 - 5) Go back through your notes and the PPT soon after class, and
 - 6) Complete take-home quizzes and the four case study assignments on time.

Students will have weekly take-home quizzes. The quizzes will be available on UAF Blackboard on Thursday and due the following Tuesday before 2:00 PM. Each quiz is worth 10 points for a total of 140 points. There will also be four web-based case study assignments administered through Blackboard. Each assignment will cover topics since the previous assignment as well as build on materials presented throughout. Each assignment is worth 100 points for a total of 400 points. The students will have one week to complete each case study assignment from the time it is available on Blackboard.

Ten points will be p

