

3 credits

Instructors – MG Karlsson, M Zhang, MP Shipka

Guest Lecturer – GL Finstad

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

Arctic Health Research Building room 183

Text – Toward Sustainable Agricultural Systems in the 21st Century (2010)

Committee on Twenty-First Century Systems Agriculture; National Research Council

978-0-309-14896-2

_____ Development of a basic understanding of sustainable agriculture concepts including exposure to economic, social, and environmental principles and ideas of sustainable agricultural practices. Agroecology is introduced as a backdrop for the development of sustainable techniques for soil, plant, and animal agriculture. The sustainable agriculture concepts and principles will be related to current issues such as population growth, resource use and availability, and changing social structures and preferences. Prerequisites: NRM 101.

_____ The student will develop a basic understanding of sustainable agriculture concepts and will be exposed to principles and ideas of sustainable agricultural practices. The development of sustainable techniques for soil, plant, and animal100009118 reW* W* 2F2 12 Tf1 0 0 1 72.024

Week 7 2/25 2/27	Chapter 3 in TSAS* (p. 110-121) Sustainable Field Crop Production Concepts – Agronomy Irrigation Water quality management Quiz 7 - Due 3/3 before 2:00 PM	Zhang
Week 8 3/3 3/5	Chapter 3 in TSAS* (p. 97-109) Sustainable Field Crop Production Concepts – Agronomy Crop rotations Intercropping Cultivar mixtures Quiz 8 - Due 3/17 before 2:00 PM	Zhang

Week 9 3/9 through 3/13 Spring Break

Week 14	Chapter 3 in TSAS* (p. 135-150, 163) Sustainable Plant Production Concepts	Karlsson
4/14	Biological IPM control methods IPM for weed management	
4/16	Quiz 13 - Due 4/21 before 2:00 PM <u>Assignment III</u> (covers weeks 11, 12, 13 & 14) Full Belly Farm (p.433-444) & Stahlbush Island Farms (p.453-462) - Due 4/23 by 2:00 PM	

Week 15 Chapter 5 in TSAS* (p. 233

4/21

4/23

authorities. For more information on your rights as a student and the resources available to you to resolve problems, please go the following site: www.uaf.edu/handbook/.

All of us have strengths and weaknesses when it comes to learning. If you have a particular learning disability that may interfere with your ability to perform the work in this course, we are happy to make reasonable accommodations. Please obtain an Accommodation Letter from the Disabilities Office of the Health Center (ext.6158). Accommodations will not be made retroactively (i.e. if you need additional time to complete the exams, you must present the letter *before* any exams are administered). We appreciate your cooperation.

For more information on your rights and responsibilities as a student and the resources available to resolve problems, please see the Center for Student Rights and Responsibilities (<https://uaf.edu/csrr>) and the Student Handbook (<https://www.uaf.edu/handbook/community/codeconduct.php>).