

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



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